	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: C# and .NET Programming	Code: C390010
Date: 29-01-2024	Time: 09:30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is difference between C# and C++?	
2)	Explain Boxing and Unboxing in ASP.NET.	
3)	Explain features of ASP.NET	
4)	Explain the type of Validations.	
5)	Write a Program on Check Whether the Entered Year is a Leap Year or Not 4	
6)	Explain Dynamic Web page.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
5)	Explain the difference between list and tuple.	
6)	Explain slicing and range with example and its significance.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 09.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
6)	Briefly explain about management activities.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 9.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
6)	Briefly explain about management activities.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 9.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
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	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme** **First Internal Assessment -2023-24**	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 04-03-2024	**Time: 02:00pm to 03:00pm**	**Max. Marks: 20**

	Answer any five of the following questions:	**2x5=10**
1)	If A&B are two disjoint sets & n(A) = 15, n(B) = 10, find n(A∪ B), n(A∩B)	
2)	If A = {3,5,7,9,11} B = {7,9,11,13}, C = {11,13,15},find A∩(B∪C)	
3)	Write all the subsets of the set {a,b}.	
4)	Show that, ~(p v q) ≡ $\sim p \wedge \sim q$	
5)	Write the converse, inverse of "If x is even then it is divisible by 4"	
6)	Define Tautology and Contradiction	
	Answer any five of the following questions:	**5x2=10**
1)	Prove by M.I. For n>1, Prove that, $1^3+2^3+3^3+\ldots\ldots\ldots n^3 = \frac{n^2(n+1)^2}{4}$, V n∈N.	
2)	Write a short note on "Operations on sets with Venn diagrams"	
3)	Write a short note on logical connectives.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme** **First Internal Assessment -2023-24**	
Semester: I	**Subject: Discrete Mathematical structures**	**Code:A390010**
Date: 04-03-2024	**Time: 02:00pm to 03:00pm**	**Max. Marks: 20**

	Answer any five of the following questions:	**2x5=10**
1)	If A&B are two disjoint sets & n(A) = 15, n(B) = 10, find n(A∪ B), n(A∩B)	
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2)	Write a short note on "Operations on sets with Venn diagrams"	
3)	Write a short note on logical connectives.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: I[st] Sem	Subject: Data Base Management System	Code: A390020
Date: 4-03-2024	Time: 3.30pm to 4.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	5×4=20
1)	What are different Components of DBMS? Explain.	
2)	Explain Data models with example	
3)	Explain hashing techniques in DBMS file Organization Process	
4)	What are the types of Indexing? Explain primary indexing in detail	
5)	Define the following a. Data Independence b. Weak Entity	
6)	Explain Three Schema Architecture with neat diagram	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: I[st] Sem	Subject: Data Base Management System	Code: A390020
Date: 4-03-2024	Time: 3.30pm to 4.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	5×4=20
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6)	Explain Three Schema Architecture with neat diagram	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	First Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-03-2024	**Time: 02:00 pm to 3:00 pm**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Highlight the features of Object Oriented Programming.	
2)	With an example, explain the use of inline function	
3)	Explain the different types of constructors with suitable examples.	
4)	Distinguish between struct and class with an example.	
5)	Explain operator overloading with example of friend function.	
6)	List down the special characteristics of statics member variables. Give an example.	
7)	Define the concept of function overloading, giving an example.	
8)	Write a C++ program to find roots of quadratic Equation	(*)

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	First Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-03-2024	**Time: 02:00 pm to 3:00 pm**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Highlight the features of Object Oriented Programming.	
2)	With an example, explain the use of inline function	
3)	Explain the different types of constructors with suitable examples.	
4)	Distinguish between struct and class with an example.	
5)	Explain operator overloading with example of friend function.	
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7)	Define the concept of function overloading, giving an example.	
8)	Write a C++ program to find roots of quadratic Equation	(*)

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 05-03-2024	**Time: 03:30pm to 4:30pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	What is meant by Data Representation? Explain with example.	
2)	What are Complements? Discuss with 2's and 10's complements.	
3)	Explain in detail about Arithmetic Micro Operation.	
4)	Discuss stored Program Organisation with neat diagram.	
5)	Briefly explain Binary Adder- Subtractor & Binary Incrementor.	
6)	Discuss in detail about Register- Transfer	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 05-03-2024	**Time: 03:30pm to 4:30pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	What is meant by Data Representation? Explain with example.	
2)	What are Complements? Discuss with 2's and 10's complements.	
3)	Explain in detail about Arithmetic Micro Operation.	
4)	Discuss stored Program Organisation with neat diagram.	
5)	Briefly explain Binary Adder- Subtractor & Binary Incrementor.	
6)	Discuss in detail about Register- Transfer	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme Second Internal Assessment 2023-24	
Semester: III[st] Sem	Subject: Programming Using Python	Code:
Date: 18-03-2024	Time: 2.30pm to 3.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	4×5=20
1)	Explain the comparison between sets and dictionaries	
2)	Explain constructer in set and nesting in dictionaries.	
3)	What are the key properties of file? Explain in detail	
4)	What is class and explain its declaration, types of variables ad accessing them with example	
5)	State the difference between class variable and instance variable?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme Second Internal Assessment 2023-24	
Semester: III[st] Sem	Subject: Programming Using Python	Code:
Date: 18-03-2024	Time: 2.30pm to 3.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	4×5=20
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3)	What are the key properties of file? Explain in detail	
4)	What is class and explain its declaration, types of variables ad accessing them with example	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: III	**Subject: C# AND .NET PROGRAMMING**	**Code: C390010**
Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
	Answer any Four of the following Questions.	***4x5=20***
1)	State the ASP.NET server control types.	
2)	Describe in short the following controls I. Button. ii. Checkbox iii. Radio Button	
3)	Explain in detail about web services in ASP.NET.	
4)	What are the ADO.NET components?	
5)	Explain Use of Dataset object in ADO.NET?	
6)	What are the differences between HTML and XML?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: III	**Subject: C# AND .NET PROGRAMMING**	**Code: C390010**
Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
Second Internal Assessment -2023-24

Semester: III	Subject: Software Engineering	Code: C390050
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Describe the golden rules for interface design.	
2)	What is V-Model explain with neat diagram.	
3)	Explain integration testing with example.	
4)	Discuss user interface design principles.	
5)	Explain how to do information Presentation.	
6)	What is testing? Explain testing approaches.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
Second Internal Assessment -2023-24

Semester: III	Subject: Software Engineering	Code: C390050
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20

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3)	Explain integration testing with example.	
4)	Discuss user interface design principles.	
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S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
Second Internal Assessment -2023-24

Semester: III	Subject: Software Engineering	Code: C390050
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
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2)	What is V-Model explain with neat diagram.	
3)	Explain integration testing with example.	
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	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 05-04-2024	**Time: 09:30am to 10:30am**	**Max. Marks: 20**
	Answer any five of the following questions:	**5 x 3=15**
1)	Define Cartesian product for two non empty sets A&B.	
2)	What is POSET? Give one example.	
3)	What is a relation? Write domain and range for the relation R.	
4)	Define and give example for Planar graph.	
5)	Define and give example for Path.	
6)	Define and give example for Hamilton Cycles.	
	Answer any one of the following questions:	**1x5=5**
1)	Check that the divisibility relation "a divides b" on A = {2,4,6,8,10,24,} is a Lattice	
2)	Let A= {1,2,3,4},R = {(1,1),(1,2),(2,1),(2,2),(2,3),(2,4),(3,4),(4,1)}.then draw the digraph and M_R	
3)	Let A= {1,2,3},R = {(1,1),(1,3),(2,2)(2,3),(3,2),(3,3)} is R Reflexive, Symmetric and transitive?	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
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	Answer any five of the following questions:	**5 x 3=15**
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2)	Let A= {1,2,3,4},R = {(1,1),(1,2),(2,1),(2,2),(2,3),(2,4),(3,4),(4,1)}.then draw the digraph and M_R	
3)	Let A= {1,2,3},R = {(1,1),(1,3),(2,2)(2,3),(3,2),(3,3)} is R Reflexive, Symmetric and transitive?	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I Sem	**Subject: Data Base Management System**	**Code: A390020**
Date: 05-04-2024	**Time: 11.00am to 12.00pm**	**Max. Marks: 20**

Q. No. 1.	**Answer any Four of the following Questions.**	**4×5=20**
1)	**What is join? Explain its types and different operations with example**	
2)	**What is normalization? Explain different Normalization with example**	
3)	**Define Schedule. Explain Serealizabilty(View and Complex)**	
4)	**What is Granularity? How it males different from locking technique? Explain with example.**	
5)	**Define Transaction and explain desirable properties of Transaction**	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I Sem	**Subject: Data Base Management System**	**Code: A390020**
Date: 05-04-2024	**Time: 11.00am to 12.00pm**	**Max. Marks: 20**

Q. No. 1.	**Answer any Four of the following Questions.**	**4×5=20**
1)	**What is join? Explain its types and different operations with example**	
2)	**What is normalization? Explain different Normalization with example**	
3)	**Define Schedule. Explain Serealizabilty(View and Complex)**	
4)	**What is Granularity? How it males different from locking technique? Explain with example.**	
5)	**Define Transaction and explain desirable properties of Transaction**	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-04-2024	**Time: 09:30 am to 10:30 am**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Differentiate linear and non-linear data structure.	
2)	What are the Advantage and Disadvantage of Stack?	
3)	What is inheritance in C++ and name the different types of inheritance with examples.	
4)	Explain Virtual member functions and pure Virtual functions.	
5)	Write the postfix notation for following expression. (A+B)*C-(D-E)^F	
6)	Write C++ Program to implement Stack operations. *	
7)	What is Constructor? Explain its types with examples.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-04-2024	**Time: 09:30 am to 10:30 am**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Differentiate linear and non-linear data structure.	
2)	What are the Advantage and Disadvantage of Stack?	
3)	What is inheritance in C++ and name the different types of inheritance with examples.	
4)	Explain Virtual member functions and pure Virtual functions.	
5)	Write the postfix notation for following expression. (A+B)*C-(D-E)^F	
6)	Write C++ Program to implement Stack operations. *	
7)	What is Constructor? Explain its types with examples.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 06-04-2024	**Time: 11:00am to 12:00pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	With neat diagram explain CPU.	
2)	Explain in detail about stack organization.	
3)	Discus the categories of Computer Instructions.	
4)	Briefly explain Direct, Indirect, Indexed, Immediate and Relative addressing Modes.	
5)	Compare RISC with CISC machines.	
6)	What is Reverse Polish Notation? Explain with example of 3 + 6 * 5 – 2 * 8 /4	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 06-04-2024	**Time: 11:00am to 12:00pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	With neat diagram explain CPU.	
2)	Explain in detail about stack organization.	
3)	Discus the categories of Computer Instructions.	
4)	Briefly explain Direct, Indirect, Indexed, Immediate and Relative addressing Modes.	
5)	Compare RISC with CISC machines.	
6)	What is Reverse Polish Notation? Explain with example of 3 + 6 * 5 – 2 * 8 /4	

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc.(CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Digital Image Processing**	**Code: D390010**
Date: 15-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**

Answer any Four of the following Questions. **4x5=20**

1) What is Digital Image? Explain its Applications.

2) Specify the basic components of image processing system

3) Explain the fundamental steps involved in Digital image processing

4) Explain Image Sampling and Quantization

5) Explain the Arithmetic and Logic operations

6) What is Histogram Processing? Explain its methods

7) Perform Histogram Stretching so that new image has a dynamic range of [0 to 7]

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	0	0	40	80	60	20	10	0

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S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc.(CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Digital Image Processing**	**Code: D390010**
Date: 15-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**

Answer any Four of the following Questions. **4x5=20**

1) What is Digital Image? Explain its Applications.

2) Specify the basic components of image processing system

3) Explain the fundamental steps involved in Digital image processing

4) Explain Image Sampling and Quantization

5) Explain the Arithmetic and Logic operations

6) What is Histogram Processing? Explain its methods

7) Perform Histogram Stretching so that new image has a dynamic range of [0 to 7]

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	0	0	40	80	60	20	10	0

B.L.D.E. Association's
S.B. Arts & K.C.P. Science College, Vijayapur
DEPARTMENT OF EDUCATION
FIRST INTERNAL TEST-2023-24

Semester: PG II SEM OEC **Time: 1.00 Hr**
Sub: Strategies of Teaching **Marks: 20**

Instructions: 1. Answer any one of the Questions.
2. Question no 3 is compulsory.

1. a) Describe the elements of micro teaching. 8+8=16
ಸೂಕ್ಷ್ಮ ಬೋಧನೆಯ ಘಟಕಾಂಶಗಳನ್ನು ವರ್ಣಿಸಿ.

b) Explain the components of the skill of stimulus variation.
ಉದ್ದೀಪನ ಮಾರ್ಪಾಡು ಕೌಶಲ್ಯದ ಘಟಕಾಂಶಗಳನ್ನು ವಿವರಿಸಿ.

2 a) Explain how micro-teaching helps to improve classroom teaching skills. 8+8=16
ತರಗತಿ ಬೋಧನೆಯ ಕೌಶಲ್ಯಗಳನ್ನು ಸುಧಾರಿಸುವಲ್ಲಿ ಸೂಕ್ಷ್ಮ ಬೋಧನೆಯು ಹೇಗೆ ಸಹಾಯಕವಾಗಿದೆ ಎಂಬುದನ್ನು ವಿವರಿಸಿ.

b) Discuss the merits and limitations of lecture method.
ಉಪನ್ಯಾಸ ವಿಧಾನದ ಲಾಭ ಹಾಗೂ ಇತಿಮಿತಿಗಳನ್ನು ಚರ್ಚಿಸಿ.

3. Write short notes on any four of the following: 1x4=4
ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕರ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

a) Steps of discussion method.
ಚರ್ಚಾ ವಿಧಾನದ ಹಂತಗಳು.

b) Components of skill of explaining.
ವಿವರಣಾ ಕೌಶಲ್ಯದ ಘಟಕಾಂಶಗಳು.

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Artificial Intelligence	Code:D390020
Date: 16-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
1)	Define AI, What are the components of AI?	
2)	What Is Agent? Explain environment of an agent.	
3)	Why we use search algorithm? Explain uniformed search	
4)	Define Adversarial search. Evaluate min max algorithm	
5)	How Knowledge is been represented? Explain difference between FOL and PL	
6)	What are different quantifiers? Explain with example.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 16-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
2)	Define AI, What are the components of AI?	
2)	What Is Agent? Explain environment of an agent.	
3)	Why we use search algorithm? Explain uniformed search	
4)	Define Adversarial search. Evaluate min max algorithm	
5)	How Knowledge is been represented? Explain difference between FOL and PL	
6)	What are different quantifiers? Explain with example.	

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc (CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Programming Using Java**	**Code: B390010**	
Date: 16-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**	
	Answer any Four of the following Questions.		**4x5=20**
1)	What do you mean by platform independent? Explain JDK with example		
2)	Explain the inheritance with code example.		
3)	Write any 5 feature of java.		
4)	Explain the architecture of java virtual machine?		
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.		
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method.		***

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc (CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Programming Using Java**	**Code: B390010**	
Date: 16-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**	
	Answer any Four of the following Questions.		**4x5=20**
1)	What do you mean by platform independent? Explain JDK with example		
2)	Explain the inheritance with code example.		
3)	Write any 5 feature of java.		
4)	Explain the architecture of java virtual machine?		
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.		
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method.		***

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc (CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Programming Using Java**	**Code: B390010**	
Date: 16-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**	
	Answer any Four of the following Questions.		**4x5=20**
1)	What do you mean by platform independent? Explain JDK with example		
2)	Explain the inheritance with code example.		
3)	Write any 5 feature of java.		
4)	Explain the architecture of java virtual machine?		
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.		
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method.		***

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: II Sem	Subject: Web Programming	Code: B391050
Date: 18-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20
Q. No. 1.	Answer any Five of the following Questions.	4×5=20
1)	What is XML namespace and DTD	
2)	Explain different formatting options in CSS with example	
3)	Write PHP program for session count.	
4)	Explain <p> <pre> <list> <table>	
5)	Explain Get and Post methods in PHP with example	
6)	Explain CSS internal and external Style sheet.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme	
	First Internal Assessment -2023-24	
Semester: IV	Subject: Cloud Computing	Code: D390050
Date: 18-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Cloud Computing. List out the pros and Cons.	
2)	Discuss the Cloud Components.	
3)	Explain the reasons when you should not use Cloud Computing.	
4)	Discuss in brief Services Provided by IBM.	
5)	Who are the first movers in the cloud? Explain any two.	
6)	What are the services given by Amazon? Discuss.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme	
	First Internal Assessment -2023-24	
Semester: IV	Subject: Cloud Computing	Code: D390050
Date: 18-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Cloud Computing. List out the pros and Cons.	
2)	Discuss the Cloud Components.	
3)	Explain the reasons when you should not use Cloud Computing.	
4)	Discuss in brief Services Provided by IBM.	
5)	Who are the first movers in the cloud? Explain any two.	
6)	What are the services given by Amazon? Discuss.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: II	Subject: Data Communication and Computer Networks	Code:
Date: 19-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Data Communication? Discuss the characteristics.	
2)	Explain in brief about Categories of Network .	
3)	With neat diagram discuss OSI Model.	
4)	What is meant by Periodic Analog Signals?	
5)	What is Transmission Impairment? Explain.	
6)	Briefly explain about Analog and Digital Data, Analog and Digital Signals.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: II	Subject: Data Communication and Computer Networks	Code:
Date: 19-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Data Communication? Discuss the characteristics.	
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6)	Briefly explain about Analog and Digital Data, Analog and Digital Signals.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	

Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 19-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS.	4×5=20
1)	What is KDD? Explain with diagram	
2)	Explain Data Preprocessing	
3)	Define Data mining with its techniques used in brief	
4)	What is multidimensional data representation? Give example.	
5)	What all kind of data can be mined? How it is viewed.	
6)	Which are the Knowledge representation methods? explain	

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DEPARTMENT OF EDUCATION
SECOND INTERNAL TEST-2023-24

Semester: PG II SEM OEC **Time: 1.30 Hr**
Sub: Strategies of Teaching **Marks: 40**

Instructions: 1. Answer any **TWO** of the Questions.
2. Question no **FOUR** is compulsory.

1. a) Explain the major characteristics of an effective teaching.
ಪರಿಣಾಮಕಾರಿ ಶಿಕ್ಷಕನ ಪ್ರಮುಖ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ 8+8

b) Describe the techniques for effective classroom teaching.
ಶಿಕ್ಷಕರು ತರಗತಿಯನ್ನು ಪರಿಣಾಮಕಾರಿಯಾಗಿಸಲು ಬಳಸುವ ತಂತ್ರಗಳನ್ನು ವರ್ಣಿಸಿ

2) a) Explain the meaning and types of communication.
ಸಂಹನದ ಅರ್ಥ ಮತ್ತು ವಿಧಗಳನ್ನು ವರ್ಣಿಸಿ 8+8

b) Describe the different strategies for effective communication.
ಪರಿಣಾಮಕಾರಿ ಸಂಸರ್ಗದ ವಿವಿಧ ತಂತ್ರಗಳನ್ನು ವರ್ಣಿ

3) a) Explain the role of Teacher in Student leaning. 8+8
ವಿಧ್ಯಾರ್ಥೀ ಕಲಿಕೆಯಲ್ಲಿ ಶಿಕ್ಷಕನ ಪಾತ್ರ ವಿವರಿಸಿರಿ.

b) Explain the barriers of communication.
ಸಂಹನದ ಅಡೆತಡೆಗಳನ್ನು ವಿವರಿಸಿರಿ.

4. Write short notes on any Two of the following: 4+4
ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಕುರಿತು ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

a) Barriers of Communication.
ಸಂವಹನದ ಅಡೆತಡೆಗಳು

b) Components of communication.
ಸಂವಹನದ ಘಟಕಾಂಶಗಳು

c) Assessment of Teacher effectiveness
ಪರಿಣಾಮಕಾರೀ ಶಿಕ್ಷಕನ ಮೌಲಮಾಪನ

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: IV	**Subject: Digital Image Processing**	**Code:D390010**
Date: 29-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any Four of the following Questions.	**8x5=20**
1)	What is meant by histogram specification?	
2)	Explain image smoothing using ideal lowpass filters and Butterworth lowpass filters.	
3)	Explain about color image smoothing.	
4)	What are the advantages of adaptive filters? Explain about adaptive median filter	
5)	Explain about image restoration using inverse filtering. Write the draw backs of this method.	
6)	Explain about RGB color model?	
7)	Explain how periodic noise can be reduced using frequency domain filtering	
8)	What are the different ways to estimate the degradation function? Explain	
9)	What are the different types of mean filters used for noise reduction? Explain.	
10)	Explain about image restoration using minimum mean square error filtering.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: IV	**Subject: Digital Image Processing**	**Code:D390010**
Date: 29-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
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2)	Explain image smoothing using ideal lowpass filters and Butterworth lowpass filters.	
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8)	What are the different ways to estimate the degradation function? Explain	
9)	What are the different types of mean filters used for noise reduction? Explain.	
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	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Programming Using Java**	**Code:B390010**
Date: 30-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any *Five* of the following Questions.	**5x8=40**
1)	Explain the different types of constructors with an example	
2)	Explain the different parameter passing mechanisms used in Java with an example	
3)	Describe the uses of final and super keywords with respect to inheritance.	
4)	Explain Overriding methods with examples	
5)	What is method overloading and method overriding? Explain with examples	
6)	What is an Exception? Explain the exception handling mechanism with suitable example.	
7)	Define Interface. How to implement multiple interfaces in java.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Programming Using Java**	**Code:B390010**
Date: 30-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any *Five* of the following Questions.	**5x8=40**
1)	Explain the different types of constructors with an example	
2)	Explain the different parameter passing mechanisms used in Java with an example	
3)	Describe the uses of final and super keywords with respect to inheritance.	
4)	Explain Overriding methods with examples	
5)	What is method overloading and method overriding? Explain with examples	
6)	What is an Exception? Explain the exception handling mechanism with suitable example.	
7)	Define Interface. How to implement multiple interfaces in java.	

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Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 30-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain Types of knowledge and its representation Techniques
2. Define Inference Engine. Explain forward and backward chaining
3. Explain First Order Predicate Logic and Proposition Logic with example
4. Explain Quantifiers? Solve these examples a. Not all students like both Mathematics and Science. b. Some boys play cricket, Some boys like FootBall
5. Define Probabilistic reasoning. Explain temporal model
6. Explain HMM in probabilistic reasoning with example
7. Explain Application Features of Kalman Filter with probabilistic reasoning

B. L. D. E. Association's
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Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 30-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain Types of knowledge and its representation Techniques
2. Define Inference Engine. Explain forward and backward chaining
3. Explain First Order Predicate Logic and Proposition Logic with example
4. Explain Quantifiers? Solve these examples a. Not all students like both Mathematics and Science. b. Some boys play cricket and Some boys like FootBall
5. Define Probabilistic reasoning. Explain temporal model
6. Explain Hidden Markov Model in Probabilistic Reasoning with example
7. Explain Application Features of Kalman Filter with probabilistic reasoning

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
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Second Internal Assessment 2023-24

Semester: II Sem	Subject: Web programming	Code: B391050
Date: 30-08-2024	Time: 01.00pm to 2.00pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain scalar types of Ruby and state the difference between Hashes and Array in Ruby with example
2. Explain code blocks and iterations in ruby with example
3. What are the roles of Rails? Explain create and insert data using Rails in data base query processing
4. Explain different Classed used in the Ruby with example
5. Explain Servlet Life cycle and Role of API in JSP
6. What is JDBC? Explain its importance of JDBC 4 Type drivers and connections
7. Explain JDBC Implementation Process in Brief with connection code.

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
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Second Internal Assessment 2023-24

Semester: II Sem	Subject: Web programming	Code: B391050
Date: 30-08-2024	Time: 01.00pm to 2.00pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain scalar types of Ruby and state the difference between Hashes and Array in Ruby with example
2. Explain code blocks and iterations in ruby with example
3. What are the roles of Rails? Explain create and insert data using Rails in data base query processing
4. Explain different Classed used in the Ruby with example
5. Explain Servlet Life cycle and Role of API in JSP
6. What is JDBC? Explain its importance of JDBC 4 Type drivers and Connections
7. Explain JDBC Implementation Process in Brief with connection code.

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc (CS) Programme** **Second Internal Assessment 2023-24**	
Semester: IV Sem	**Subject: Cloud Computing**	**Code: D390050**
Date: 30-08-2024	**Time: 01.00pm to 02.30pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	**Who is Client? Discuss the types of Clients.**	
2)	**Briefly explain Economical and Operational Benefits of SaaS.**	
3)	**Explain Safari and Google Chrome browsers.**	
4)	**Briefly explain SaaS and PaaS Cloud Services.**	
5)	**Discuss any two types of networks provided in Cloud Computing.**	
6)	**Mention the Staffing Benefits for the Providers and Consumers**	
7)	**Write a Short note on Live Mesh, Cloud Providers.**	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc (CS) Programme** **Second Internal Assessment 2023-24**	
Semester: IV Sem	**Subject: Cloud Computing**	**Code: D390050**
Date: 30-08-2024	**Time: 01.30pm to 02.30pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	**Who is Client? Discuss the types of Clients.**	
2)	**Briefly explain Economical and Operational Benefits of SaaS.**	
3)	**Explain Safari and Google Chrome browsers.**	
4)	**Briefly explain SaaS and PaaS Cloud Services.**	
5)	**Discuss any two types of networks provided in Cloud Computing.**	
6)	**Mention the Staffing Benefits for the Providers and Consumers**	
7)	**Write a Short note on Live Mesh, Cloud Providers.**	

B. L. D. E. Association's
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Second Internal Assessment 2023-24

Semester: II Sem	**Subject: Data Communication and Computer Networks**	**Code:**
Date: 31-08-2024	**Time: 10.30am to 12.00pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	What is Transmission Media? Discuss any Twisted Pair Cable and Optical Fibre cable.	
2)	With a neat diagram of IPv6, Explain the structure and advantages.	
3)	What is an Error? Discuss the types of Errors with example.	
4)	Briefly discuss about- Forward Error Correction vs Retransmission, Checksum.	
5)	Explain in detail about ARP Address Mapping.	
6)	What is Multiplexing? Discuss the types.	
7)	Write a short Note on Connection Oriented and Connection Less Services, Flow Control and Error Control.	

B. L. D. E. Association's
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M.Sc (CS) Programme
Second Internal Assessment 2023-24

Semester: II Sem	**Subject: Data Communication and Computer Networks**	**Code:**
Date: 31-08-2024	**Time: 10.30am to 12.00pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	What is Transmission Media? Discuss any Twisted Pair Cable and Optical Fibre cable.	
2)	With a neat diagram of IPv6, Explain the structure and advantages.	
3)	What is an Error? Discuss the types of Errors with example.	
4)	Briefly discuss about- Forward Error Correction vs Retransmission, Checksum.	
5)	Explain in detail about ARP Address Mapping.	
6)	What is Multiplexing? Discuss the types.	
7)	Write a short Note on Connection Oriented and Connection Less Services, Flow Control and Error Control.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 31-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. What is Association rule based Mining? Explain Apriori Algorithm in DM
2. Explain Bayasian Theorem for Join probability and conditional Probability with example
3. Define Rule based classification and sequential covering method in detail
4. What are difference between supervised learning and unsupervised learning? Explain Processing steps in Classification.
5. Explain different Statistical Measures used to analyze Central tendency to find Boxplot model
6. Explain Attribute selection Process to find Gini-Index, Info-gain, Gain ratio for Any data set
7. Explain Application Features of Kalman Filter with Probabilistic Reasoning

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 31-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. What is Association rule based Mining? Ex[lain Apriori Algorithm in DM
2. Explain Bayasian Theorem for Join probability and conditional Probability with example
3. Define Rule based classification and sequential covering method in detail
4. What are difference between supervised learning and unsupervised learning? Explain Processing steps in Classification.
5. Explain different Statistical Measures used to analyze Central tendency to find Boxplot model
6. Explain Attribute selection Process to find Gini-Index, Info-gain, Gain ratio for Any data set
7. Explain Application Features of Kalman Filter with Probabilistic Reasoning

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: C# and .NET Programming	Code: C390010
Date: 29-01-2024	Time: 09:30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is difference between C# and C++?	
2)	Explain Boxing and Unboxing in ASP.NET.	
3)	Explain features of ASP.NET	
4)	Explain the type of Validations.	
5)	Write a Program on Check Whether the Entered Year is a Leap Year or Not 4	
6)	Explain Dynamic Web page.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: C# and .NET Programming	Code: C390010
Date: 29-01-2024	Time: 09:30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is difference between C# and C++?	
2)	Explain Boxing and Unboxing in ASP.NET.	
3)	Explain features of ASP.NET	
4)	Explain the type of Validations.	
5)	Write a Program on Check Whether the Entered Year is a Leap Year or Not 4	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: C# and .NET Programming	Code: C390010
Date: 29-01-2024	Time: 09:30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is difference between C# and C++?	
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
5)	Explain the difference between list and tuple.	
6)	Explain slicing and range with example and its significance.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
5)	Explain the difference between list and tuple.	
6)	Explain slicing and range with example and its significance.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 09.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
6)	Briefly explain about management activities.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 9.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
6)	Briefly explain about management activities.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 9.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
6)	Briefly explain about management activities.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme** **First Internal Assessment -2023-24**	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 04-03-2024	**Time: 02:00pm to 03:00pm**	**Max. Marks: 20**

	Answer any five of the following questions:	**2x5=10**
1)	If A&B are two disjoint sets & n(A) = 15, n(B) = 10, find n(A∪ B), n(A∩B)	
2)	If A = {3,5,7,9,11} B = {7,9,11,13}, C = {11,13,15},find A∩(B∪C)	
3)	Write all the subsets of the set {a,b}.	
4)	Show that, ~(p v q) ≡ $\sim p \wedge \sim q$	
5)	Write the converse, inverse of "If x is even then it is divisible by 4"	
6)	Define Tautology and Contradiction	
	Answer any five of the following questions:	**5x2=10**
1)	Prove by M.I. For n>1, Prove that, $1^3+2^3+3^3+\ldots\ldots\ldots n^3 = \frac{n^2(n+1)^2}{4}$, V n∈N.	
2)	Write a short note on "Operations on sets with Venn diagrams"	
3)	Write a short note on logical connectives.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme** **First Internal Assessment -2023-24**	
Semester: I	**Subject: Discrete Mathematical structures**	**Code:A390010**
Date: 04-03-2024	**Time: 02:00pm to 03:00pm**	**Max. Marks: 20**

	Answer any five of the following questions:	**2x5=10**
1)	If A&B are two disjoint sets & n(A) = 15, n(B) = 10, find n(A∪ B), n(A∩B)	
2)	If A = {3,5,7,9,11} B = {7,9,11,13}, C = {11,13,15},find A∩(B∪C)	
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3)	Write a short note on logical connectives.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: I[st] Sem	Subject: Data Base Management System	Code: A390020
Date: 4-03-2024	Time: 3.30pm to 4.30pm	Max. Marks: 20
Q. No. 1.	Answer any Four of the following Questions.	5×4=20
1)	What are different Components of DBMS? Explain.	
2)	Explain Data models with example	
3)	Explain hashing techniques in DBMS file Organization Process	
4)	What are the types of Indexing? Explain primary indexing in detail	
5)	Define the following a. Data Independence b. Weak Entity	
6)	Explain Three Schema Architecture with neat diagram	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: I[st] Sem	Subject: Data Base Management System	Code: A390020
Date: 4-03-2024	Time: 3.30pm to 4.30pm	Max. Marks: 20
Q. No. 1.	Answer any Four of the following Questions.	5×4=20
1)	What are different Components of DBMS? Explain.	
2)	Explain Data models with example	
3)	Explain hashing technique in DBMS file Organization Process	
4)	What are the types of Indexing? Explain primary indexing in detail	
5)	Define the following a. Data Independence b. Weak Entity	
6)	Explain Three Schema Architecture with neat diagram	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme	
	First Internal Assessment -2023-24	
Semester: I	Subject: Data structure using C++	Code: A390030
Date: 06-03-2024	Time: 02:00 pm to 3:00 pm	Max. Marks: 20
	Answer any Five of the following Questions each carries 4 Marks.	4x5=20
1)	Highlight the features of Object Oriented Programming.	
2)	With an example, explain the use of inline function	
3)	Explain the different types of constructors with suitable examples.	
4)	Distinguish between struct and class with an example.	
5)	Explain operator overloading with example of friend function.	
6)	List down the special characteristics of statics member variables. Give an example.	
7)	Define the concept of function overloading, giving an example.	
8)	Write a C++ program to find roots of quadratic Equation	(*)

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme	
	First Internal Assessment -2023-24	
Semester: I	Subject: Data structure using C++	Code: A390030
Date: 06-03-2024	Time: 02:00 pm to 3:00 pm	Max. Marks: 20
	Answer any Five of the following Questions each carries 4 Marks.	4x5=20
1)	Highlight the features of Object Oriented Programming.	
2)	With an example, explain the use of inline function	
3)	Explain the different types of constructors with suitable examples.	
4)	Distinguish between struct and class with an example.	
5)	Explain operator overloading with example of friend function.	
6)	List down the special characteristics of statics member variables. Give an example.	
7)	Define the concept of function overloading, giving an example.	
8)	Write a C++ program to find roots of quadratic Equation	(*)

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: I	Subject: Computer System Architecture	Code: A390060
Date: 05-03-2024	Time: 03:30pm to 4:30pm	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is meant by Data Representation? Explain with example.	
2)	What are Complements? Discuss with 2's and 10's complements.	
3)	Explain in detail about Arithmetic Micro Operation.	
4)	Discuss stored Program Organisation with neat diagram.	
5)	Briefly explain Binary Adder- Subtractor & Binary Incrementor.	
6)	Discuss in detail about Register- Transfer	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: I	Subject: Computer System Architecture	Code: A390060
Date: 05-03-2024	Time: 03:30pm to 4:30pm	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is meant by Data Representation? Explain with example.	
2)	What are Complements? Discuss with 2's and 10's complements.	
3)	Explain in detail about Arithmetic Micro Operation.	
4)	Discuss stored Program Organisation with neat diagram.	
5)	Briefly explain Binary Adder- Subtractor & Binary Incrementor.	
6)	Discuss in detail about Register- Transfer	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme Second Internal Assessment 2023-24	

Semester: III[st] Sem	Subject: Programming Using Python	Code:
Date: 18-03-2024	Time: 2.30pm to 3.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	4×5=20
1)	Explain the comparison between sets and dictionaries	
2)	Explain constructer in set and nesting in dictionaries.	
3)	What are the key properties of file? Explain in detail	
4)	What is class and explain its declaration, types of variables ad accessing them with example	
5)	State the difference between class variable and instance variable?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme Second Internal Assessment 2023-24	

Semester: III[st] Sem	Subject: Programming Using Python	Code:
Date: 18-03-2024	Time: 2.30pm to 3.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	4×5=20
2)	Explain the comparison between sets and dictionaries	
2)	Explain constructer in set and nesting in dictionaries.	
3)	What are the key properties of file? Explain in detail	
4)	What is class and explain its declaration, types of variables ad accessing them with example	
5)	State the difference between class variable and instance variable?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: III	**Subject: C# AND .NET PROGRAMMING**	**Code: C390010**
Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
	Answer any Four of the following Questions.	***4x5=20***
1)	State the ASP.NET server control types.	
2)	Describe in short the following controls I. Button. ii. Checkbox iii. Radio Button	
3)	Explain in detail about web services in ASP.NET.	
4)	What are the ADO.NET components?	
5)	Explain Use of Dataset object in ADO.NET?	
6)	What are the differences between HTML and XML?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: III	**Subject: C# AND .NET PROGRAMMING**	**Code: C390010**
Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
	Answer any Four of the following Questions.	***4x5=20***
1)	State the ASP.NET server control types.	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: III	**Subject: C# AND .NET PROGRAMMING**	**Code: C390010**
Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
	Answer any Four of the following Questions.	***4x5=20***
1)	State the ASP.NET server control types.	
2)	Describe in short the following controls I. Button. ii. Checkbox iii. Radio Button	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24		
Semester: III	Subject: Software Engineering	Code: C390050	
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20	
	Answer any Four of the following Questions.		4x5=20
1)	Describe the golden rules for interface design.		
2)	What is V-Model explain with neat diagram.		
3)	Explain integration testing with example.		
4)	Discuss user interface design principles.		
5)	Explain how to do information Presentation.		
6)	What is testing? Explain testing approaches.		

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24		
Semester: III	Subject: Software Engineering	Code: C390050	
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20	
	Answer any Four of the following Questions.		4x5=20
1)	Describe the golden rules for interface design.		
2)	What is V-Model explain with neat diagram.		
3)	Explain integration testing with example.		
4)	Discuss user interface design principles.		
5)	Explain how to do information Presentation.		
6)	What is testing? Explain testing approaches.		

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24		
Semester: III	Subject: Software Engineering	Code: C390050	
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20	
	Answer any Four of the following Questions.		4x5=20
1)	Describe the golden rules for interface design.		
2)	What is V-Model explain with neat diagram.		
3)	Explain integration testing with example.		
4)	Discuss user interface design principles.		
5)	Explain how to do information Presentation.		
6)	What is testing? Explain testing approaches.		

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 05-04-2024	**Time: 09:30am to 10:30am**	**Max. Marks: 20**
	Answer any five of the following questions:	**5 x 3=15**
1)	Define Cartesian product for two non empty sets A&B.	
2)	What is POSET? Give one example.	
3)	What is a relation? Write domain and range for the relation R.	
4)	Define and give example for Planar graph.	
5)	Define and give example for Path.	
6)	Define and give example for Hamilton Cycles.	
	Answer any one of the following questions:	**1x5=5**
1)	Check that the divisibility relation "a divides b" on A = {2,4,6,8,10,24,} is a Lattice	
2)	Let A= {1,2,3,4},R = {(1,1),(1,2),(2,1),(2,2),(2,3),(2,4),(3,4),(4,1)}.then draw the digraph and M_R	
3)	Let A= {1,2,3},R = {(1,1),(1,3),(2,2)(2,3),(3,2),(3,3)} is R Reflexive, Symmetric and transitive?	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 05-04-2024	**Time: 09:30am to 10:30am**	**Max. Marks: 20**
	Answer any five of the following questions:	**5 x 3=15**
1)	Define Cartesian product for two non empty sets A&B.	
2)	What is POSET? Give one example.	
3)	What is a relation? Write domain and range for the relation R.	
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5)	Define and give example for Path.	
6)	Define and give example for Hamilton Cycles.	
	Answer any one of the following questions:	**1x5=5**
1)	Check that the divisibility relation "a divides b" on A = {2,4,6,8,10,24,} is a Lattice	
2)	Let A= {1,2,3,4},R = {(1,1),(1,2),(2,1),(2,2),(2,3),(2,4),(3,4),(4,1)}.then draw the digraph and M_R	
3)	Let A= {1,2,3},R = {(1,1),(1,3),(2,2)(2,3),(3,2),(3,3)} is R Reflexive, Symmetric and transitive?	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I Sem	**Subject: Data Base Management System**	**Code: A390020**
Date: 05-04-2024	**Time: 11.00am to 12.00pm**	**Max. Marks: 20**

Q. No. 1.	**Answer any Four of the following Questions.**	**4×5=20**
1)	**What is join? Explain its types and different operations with example**	
2)	**What is normalization? Explain different Normalization with example**	
3)	**Define Schedule. Explain Serealizabilty(View and Complex)**	
4)	**What is Granularity? How it males different from locking technique? Explain with example.**	
5)	**Define Transaction and explain desirable properties of Transaction**	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I Sem	**Subject: Data Base Management System**	**Code: A390020**
Date: 05-04-2024	**Time: 11.00am to 12.00pm**	**Max. Marks: 20**

Q. No. 1.	**Answer any Four of the following Questions.**	**4×5=20**
1)	**What is join? Explain its types and different operations with example**	
2)	**What is normalization? Explain different Normalization with example**	
3)	**Define Schedule. Explain Serealizabilty(View and Complex)**	
4)	**What is Granularity? How it males different from locking technique? Explain with example.**	
5)	**Define Transaction and explain desirable properties of Transaction**	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-04-2024	**Time: 09:30 am to 10:30 am**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Differentiate linear and non-linear data structure.	
2)	What are the Advantage and Disadvantage of Stack?	
3)	What is inheritance in C++ and name the different types of inheritance with examples.	
4)	Explain Virtual member functions and pure Virtual functions.	
5)	Write the postfix notation for following expression. (A+B)*C-(D-E)^F	
6)	Write C++ Program to implement Stack operations. *	
7)	What is Constructor? Explain its types with examples.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-04-2024	**Time: 09:30 am to 10:30 am**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Differentiate linear and non-linear data structure.	
2)	What are the Advantage and Disadvantage of Stack?	
3)	What is inheritance in C++ and name the different types of inheritance with examples.	
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6)	Write C++ Program to implement Stack operations. *	
7)	What is Constructor? Explain its types with examples.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 06-04-2024	**Time: 11:00am to 12:00pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	With neat diagram explain CPU.	
2)	Explain in detail about stack organization.	
3)	Discus the categories of Computer Instructions.	
4)	Briefly explain Direct, Indirect, Indexed, Immediate and Relative addressing Modes.	
5)	Compare RISC with CISC machines.	
6)	What is Reverse Polish Notation? Explain with example of 3 + 6 * 5 – 2 * 8 /4	

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	Second Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 06-04-2024	**Time: 11:00am to 12:00pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	With neat diagram explain CPU.	
2)	Explain in detail about stack organization.	
3)	Discus the categories of Computer Instructions.	
4)	Briefly explain Direct, Indirect, Indexed, Immediate and Relative addressing Modes.	
5)	Compare RISC with CISC machines.	
6)	What is Reverse Polish Notation? Explain with example of 3 + 6 * 5 – 2 * 8 /4	

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc.(CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Digital Image Processing**	**Code: D390010**
Date: 15-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**

Answer any Four of the following Questions. **4x5=20**

1) What is Digital Image? Explain its Applications.

2) Specify the basic components of image processing system

3) Explain the fundamental steps involved in Digital image processing

4) Explain Image Sampling and Quantization

5) Explain the Arithmetic and Logic operations

6) What is Histogram Processing? Explain its methods

7) Perform Histogram Stretching so that new image has a dynamic range of [0 to 7]

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	0	0	40	80	60	20	10	0

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc.(CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Digital Image Processing**	**Code: D390010**
Date: 15-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**

Answer any Four of the following Questions. **4x5=20**

1) What is Digital Image? Explain its Applications.

2) Specify the basic components of image processing system

3) Explain the fundamental steps involved in Digital image processing

4) Explain Image Sampling and Quantization

5) Explain the Arithmetic and Logic operations

6) What is Histogram Processing? Explain its methods

7) Perform Histogram Stretching so that new image has a dynamic range of [0 to 7]

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	0	0	40	80	60	20	10	0

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S.B. Arts & K.C.P. Science College, Vijayapur
DEPARTMENT OF EDUCATION
FIRST INTERNAL TEST-2023-24

Semester: PG II SEM OEC **Time: 1.00 Hr**
Sub: Strategies of Teaching **Marks: 20**

Instructions: 1. Answer any one of the Questions.
2. Question no 3 is compulsory.

1. a) Describe the elements of micro teaching. 8+8=16
ಸೂಕ್ಷ್ಮ ಬೋಧನೆಯ ಘಟಕಾಂಶಗಳನ್ನು ವರ್ಣಿಸಿ.

b) Explain the components of the skill of stimulus variation.
ಉದ್ದೀಪನ ಮಾರ್ಪಾಡು ಕೌಶಲ್ಯದ ಘಟಕಾಂಶಗಳನ್ನು ವಿವರಿಸಿ.

2 a) Explain how micro-teaching helps to improve classroom teaching skills. 8+8=16
ತರಗತಿ ಬೋಧನೆಯ ಕೌಶಲ್ಯಗಳನ್ನು ಸುಧಾರಿಸುವಲ್ಲಿ ಸೂಕ್ಷ್ಮ ಬೋಧನೆಯು ಹೇಗೆ ಸಹಾಯಕವಾಗಿದೆ ಎಂಬುದನ್ನು ವಿವರಿಸಿ.

b) Discuss the merits and limitations of lecture method.
ಉಪನ್ಯಾಸ ವಿಧಾನದ ಲಾಭ ಹಾಗೂ ಇತಿಮಿತಿಗಳನ್ನು ಚರ್ಚಿಸಿ.

3. Write short notes on any four of the following: 1x4=4
ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕರ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

a) Steps of discussion method.
ಚರ್ಚಾ ವಿಧಾನದ ಹಂತಗಳು.

b) Components of skill of explaining.
ವಿವರಣಾ ಕೌಶಲ್ಯದ ಘಟಕಾಂಶಗಳು.

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Artificial Intelligence	Code:D390020
Date: 16-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
1)	Define AI, What are the components of AI?	
2)	What Is Agent? Explain environment of an agent.	
3)	Why we use search algorithm? Explain uniformed search	
4)	Define Adversarial search. Evaluate min max algorithm	
5)	How Knowledge is been represented? Explain difference between FOL and PL	
6)	What are different quantifiers? Explain with example.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 16-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
2)	Define AI, What are the components of AI?	
2)	What Is Agent? Explain environment of an agent.	
3)	Why we use search algorithm? Explain uniformed search	
4)	Define Adversarial search. Evaluate min max algorithm	
5)	How Knowledge is been represented? Explain difference between FOL and PL	
6)	What are different quantifiers? Explain with example.	

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S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: IV	Subject: Programming Using Java	Code: B390010
Date: 16-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	What do you mean by platform independent? Explain JDK with example	
2)	Explain the inheritance with code example.	
3)	Write any 5 feature of java.	
4)	Explain the architecture of java virtual machine?	
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.	
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method. •••	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: IV	Subject: Programming Using Java	Code: B390010
Date: 16-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	What do you mean by platform independent? Explain JDK with example	
2)	Explain the inheritance with code example.	
3)	Write any 5 feature of java.	
4)	Explain the architecture of java virtual machine?	
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.	
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method. •••	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: IV	Subject: Programming Using Java	Code: B390010
Date: 16-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	What do you mean by platform independent? Explain JDK with example	
2)	Explain the inheritance with code example.	
3)	Write any 5 feature of java.	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: II Sem	Subject: Web Programming	Code: B391050
Date: 18-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
1)	What is XML namespace and DTD	
2)	Explain different formatting options in CSS with example	
3)	Write PHP program for session count.	
4)	Explain <p> <pre> <list> <table>	
5)	Explain Get and Post methods in PHP with example	
6)	Explain CSS internal and external Style sheet.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: IV	Subject: Cloud Computing	Code: D390050
Date: 18-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Cloud Computing. List out the pros and Cons.	
2)	Discuss the Cloud Components.	
3)	Explain the reasons when you should not use Cloud Computing.	
4)	Discuss in brief Services Provided by IBM.	
5)	Who are the first movers in the cloud? Explain any two.	
6)	What are the services given by Amazon? Discuss.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: IV	Subject: Cloud Computing	Code: D390050
Date: 18-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Cloud Computing. List out the pros and Cons.	
2)	Discuss the Cloud Components.	
3)	Explain the reasons when you should not use Cloud Computing.	
4)	Discuss in brief Services Provided by IBM.	
5)	Who are the first movers in the cloud? Explain any two.	
6)	What are the services given by Amazon? Discuss.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: II	Subject: Data Communication and Computer Networks	Code:
Date: 19-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Data Communication? Discuss the characteristics.	
2)	Explain in brief about Categories of Network .	
3)	With neat diagram discuss OSI Model.	
4)	What is meant by Periodic Analog Signals?	
5)	What is Transmission Impairment? Explain.	
6)	Briefly explain about Analog and Digital Data, Analog and Digital Signals.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: II	Subject: Data Communication and Computer Networks	Code:
Date: 19-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
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2)	Explain in brief about Categories of Network .	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 19-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS.	4×5=20
1)	What is KDD? Explain with diagram	
2)	Explain Data Preprocessing	
3)	Define Data mining with its techniques used in brief	
4)	What is multidimensional data representation? Give example.	
5)	What all kind of data can be mined? How it is viewed.	
6)	Which are the Knowledge representation methods? explain	

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S.B. Arts & K.C.P. Science College, Vijayapur
DEPARTMENT OF EDUCATION
SECOND INTERNAL TEST-2023-24

Semester: PG II SEM OEC **Time: 1.30 Hr**
Sub: Strategies of Teaching **Marks: 40**

Instructions: 1. Answer any **TWO** of the Questions.
2. Question no **FOUR** is compulsory.

1. a) Explain the major characteristics of an effective teaching.
ಪರಿಣಾಮಕಾರಿ ಶಿಕ್ಷಕನ ಪ್ರಮುಖ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ 8+8

b) Describe the techniques for effective classroom teaching.
ಶಿಕ್ಷಕರು ತರಗತಿಯನ್ನು ಪರಿಣಾಮಕಾರಿಯಾಗಿಸಲು ಬಳಸುವ ತಂತ್ರಗಳನ್ನು ವರ್ಣಿಸಿ

2) a) Explain the meaning and types of communication.
ಸಂಹನದ ಅರ್ಥ ಮತ್ತು ವಿಧಗಳನ್ನು ವರ್ಣಿಸಿ 8+8

b) Describe the different strategies for effective communication.
ಪರಿಣಾಮಕಾರಿ ಸಂಸರ್ಗದ ವಿವಿಧ ತಂತ್ರಗಳನ್ನು ವರ್ಣಿ

3) a) Explain the role of Teacher in Student leaning. 8+8
ವಿಧ್ಯಾರ್ಥೀ ಕಲಿಕೆಯಲ್ಲಿ ಶಿಕ್ಷಕನ ಪಾತ್ರ ವಿವರಿಸಿರಿ.

b) Explain the barriers of communication.
ಸಂಹನದ ಅಡೆತಡೆಗಳನ್ನು ವಿವರಿಸಿರಿ.

4. Write short notes on any Two of the following: 4+4
ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಕುರಿತು ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

a) Barriers of Communication.
ಸಂವಹನದ ಅಡೆತಡೆಗಳು

b) Components of communication.
ಸಂವಹನದ ಘಟಕಾಂಶಗಳು

c) Assessment of Teacher effectiveness
ಪರಿಣಾಮಕಾರೀ ಶಿಕ್ಷಕನ ಮೌಲಮಾಪನ

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Digital Image Processing**	**Code:D390010**
Date: 29-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**

	Answer any Four of the following Questions.	**8x5=20**
1)	What is meant by histogram specification?	
2)	Explain image smoothing using ideal lowpass filters and Butterworth lowpass filters.	
3)	Explain about color image smoothing.	
4)	What are the advantages of adaptive filters? Explain about adaptive median filter	
5)	Explain about image restoration using inverse filtering. Write the draw backs of this method.	
6)	Explain about RGB color model?	
7)	Explain how periodic noise can be reduced using frequency domain filtering	
8)	What are the different ways to estimate the degradation function? Explain	
9)	What are the different types of mean filters used for noise reduction? Explain.	
10)	Explain about image restoration using minimum mean square error filtering.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Digital Image Processing**	**Code:D390010**
Date: 29-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**

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9)	What are the different types of mean filters used for noise reduction? Explain.	
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	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Programming Using Java**	**Code:B390010**
Date: 30-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any *Five* of the following Questions.	**5x8=40**
1)	Explain the different types of constructors with an example	
2)	Explain the different parameter passing mechanisms used in Java with an example	
3)	Describe the uses of final and super keywords with respect to inheritance.	
4)	Explain Overriding methods with examples	
5)	What is method overloading and method overriding? Explain with examples	
6)	What is an Exception? Explain the exception handling mechanism with suitable example.	
7)	Define Interface. How to implement multiple interfaces in java.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Programming Using Java**	**Code:B390010**
Date: 30-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any *Five* of the following Questions.	**5x8=40**
1)	Explain the different types of constructors with an example	
2)	Explain the different parameter passing mechanisms used in Java with an example	
3)	Describe the uses of final and super keywords with respect to inheritance.	
4)	Explain Overriding methods with examples	
5)	What is method overloading and method overriding? Explain with examples	
6)	What is an Exception? Explain the exception handling mechanism with suitable example.	
7)	Define Interface. How to implement multiple interfaces in java.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 30-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain Types of knowledge and its representation Techniques
2. Define Inference Engine. Explain forward and backward chaining
3. Explain First Order Predicate Logic and Proposition Logic with example
4. Explain Quantifiers? Solve these examples a. Not all students like both Mathematics and Science. b. Some boys play cricket, Some boys like FootBall
5. Define Probabilistic reasoning. Explain temporal model
6. Explain HMM in probabilistic reasoning with example
7. Explain Application Features of Kalman Filter with probabilistic reasoning

B. L. D. E. Association's
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Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 30-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain Types of knowledge and its representation Techniques
2. Define Inference Engine. Explain forward and backward chaining
3. Explain First Order Predicate Logic and Proposition Logic with example
4. Explain Quantifiers? Solve these examples a. Not all students like both Mathematics and Science. b. Some boys play cricket and Some boys like FootBall
5. Define Probabilistic reasoning. Explain temporal model
6. Explain Hidden Markov Model in Probabilistic Reasoning with example
7. Explain Application Features of Kalman Filter with probabilistic reasoning

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
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Second Internal Assessment 2023-24

Semester: II Sem	Subject: Web programming	Code: B391050
Date: 30-08-2024	Time: 01.00pm to 2.00pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain scalar types of Ruby and state the difference between Hashes and Array in Ruby with example
2. Explain code blocks and iterations in ruby with example
3. What are the roles of Rails? Explain create and insert data using Rails in data base query processing
4. Explain different Classed used in the Ruby with example
5. Explain Servlet Life cycle and Role of API in JSP
6. What is JDBC? Explain its importance of JDBC 4 Type drivers and connections
7. Explain JDBC Implementation Process in Brief with connection code.

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: II Sem	Subject: Web programming	Code: B391050
Date: 30-08-2024	Time: 01.00pm to 2.00pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain scalar types of Ruby and state the difference between Hashes and Array in Ruby with example
2. Explain code blocks and iterations in ruby with example
3. What are the roles of Rails? Explain create and insert data using Rails in data base query processing
4. Explain different Classed used in the Ruby with example
5. Explain Servlet Life cycle and Role of API in JSP
6. What is JDBC? Explain its importance of JDBC 4 Type drivers and Connections
7. Explain JDBC Implementation Process in Brief with connection code.

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc (CS) Programme** **Second Internal Assessment 2023-24**	
Semester: IV Sem	**Subject: Cloud Computing**	**Code: D390050**
Date: 30-08-2024	**Time: 01.00pm to 02.30pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	**Who is Client? Discuss the types of Clients.**	
2)	**Briefly explain Economical and Operational Benefits of SaaS.**	
3)	**Explain Safari and Google Chrome browsers.**	
4)	**Briefly explain SaaS and PaaS Cloud Services.**	
5)	**Discuss any two types of networks provided in Cloud Computing.**	
6)	**Mention the Staffing Benefits for the Providers and Consumers**	
7)	**Write a Short note on Live Mesh, Cloud Providers.**	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc (CS) Programme** **Second Internal Assessment 2023-24**	
Semester: IV Sem	**Subject: Cloud Computing**	**Code: D390050**
Date: 30-08-2024	**Time: 01.30pm to 02.30pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	**Who is Client? Discuss the types of Clients.**	
2)	**Briefly explain Economical and Operational Benefits of SaaS.**	
3)	**Explain Safari and Google Chrome browsers.**	
4)	**Briefly explain SaaS and PaaS Cloud Services.**	
5)	**Discuss any two types of networks provided in Cloud Computing.**	
6)	**Mention the Staffing Benefits for the Providers and Consumers**	
7)	**Write a Short note on Live Mesh, Cloud Providers.**	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc (CS) Programme
Second Internal Assessment 2023-24

Semester: II Sem	**Subject: Data Communication and Computer Networks**	**Code:**
Date: 31-08-2024	**Time: 10.30am to 12.00pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	What is Transmission Media? Discuss any Twisted Pair Cable and Optical Fibre cable.	
2)	With a neat diagram of IPv6, Explain the structure and advantages.	
3)	What is an Error? Discuss the types of Errors with example.	
4)	Briefly discuss about- Forward Error Correction vs Retransmission, Checksum.	
5)	Explain in detail about ARP Address Mapping.	
6)	What is Multiplexing? Discuss the types.	
7)	Write a short Note on Connection Oriented and Connection Less Services, Flow Control and Error Control.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc (CS) Programme
Second Internal Assessment 2023-24

Semester: II Sem	**Subject: Data Communication and Computer Networks**	**Code:**
Date: 31-08-2024	**Time: 10.30am to 12.00pm**	**Max. Marks: 40**
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 31-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. What is Association rule based Mining? Explain Apriori Algorithm in DM
2. Explain Bayasian Theorem for Join probability and conditional Probability with example
3. Define Rule based classification and sequential covering method in detail
4. What are difference between supervised learning and unsupervised learning? Explain Processing steps in Classification.
5. Explain different Statistical Measures used to analyze Central tendency to find Boxplot model
6. Explain Attribute selection Process to find Gini-Index, Info-gain, Gain ratio for Any data set
7. Explain Application Features of Kalman Filter with Probabilistic Reasoning

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 31-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. What is Association rule based Mining? Ex[lain Apriori Algorithm in DM
2. Explain Bayasian Theorem for Join probability and conditional Probability with example
3. Define Rule based classification and sequential covering method in detail
4. What are difference between supervised learning and unsupervised learning? Explain Processing steps in Classification.
5. Explain different Statistical Measures used to analyze Central tendency to find Boxplot model
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7. Explain Application Features of Kalman Filter with Probabilistic Reasoning

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: C# and .NET Programming	Code: C390010
Date: 29-01-2024	Time: 09:30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is difference between C# and C++?	
2)	Explain Boxing and Unboxing in ASP.NET.	
3)	Explain features of ASP.NET	
4)	Explain the type of Validations.	
5)	Write a Program on Check Whether the Entered Year is a Leap Year or Not 4	
6)	Explain Dynamic Web page.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: C# and .NET Programming	Code: C390010
Date: 29-01-2024	Time: 09:30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is difference between C# and C++?	
2)	Explain Boxing and Unboxing in ASP.NET.	
3)	Explain features of ASP.NET	
4)	Explain the type of Validations.	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
5)	Explain the difference between list and tuple.	
6)	Explain slicing and range with example and its significance.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
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B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: III	Subject: Programming Using Python	Code: C390020
Date: 29-01-2024	Time: 11.00am to 12:00am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	Write the Specification for Function declaration in Python with example	
2)	How to declare Module? How to define user defined Module? Give example	
3)	What are the decorators used in Python? Explain with example.	
4)	What are the uses of Underscores in Python?	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 09.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
6)	Briefly explain about management activities.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 9.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
5)	What is Sequence diagram? Explain ATM system	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: III	Subject: Software Engineering	Code: C390050
Date: 30-01-2024	Time: 9.30am to 10:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Software Engineering? Explain the attributes of good software.	
2)	Explain in brief about System Engineering.	
3)	With neat diagram discuss Waterfall Model.	
4)	What is DFD? With the example of Insulin Pump system explain.	
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	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme** **First Internal Assessment -2023-24**	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 04-03-2024	**Time: 02:00pm to 03:00pm**	**Max. Marks: 20**

	Answer any five of the following questions:	**2x5=10**
1)	If A&B are two disjoint sets & n(A) = 15, n(B) = 10, find n(A∪ B), n(A∩B)	
2)	If A = {3,5,7,9,11} B = {7,9,11,13}, C = {11,13,15},find A∩(B∪C)	
3)	Write all the subsets of the set {a,b}.	
4)	Show that, ~(p v q) ≡ $\sim p \wedge \sim q$	
5)	Write the converse, inverse of "If x is even then it is divisible by 4"	
6)	Define Tautology and Contradiction	
	Answer any five of the following questions:	**5x2=10**
1)	Prove by M.I. For n>1, Prove that, $1^3+2^3+3^3+\ldots\ldots\ldots n^3 = \frac{n^2(n+1)^2}{4}$, V n∈N.	
2)	Write a short note on "Operations on sets with Venn diagrams"	
3)	Write a short note on logical connectives.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme** **First Internal Assessment -2023-24**	
Semester: I	**Subject: Discrete Mathematical structures**	**Code:A390010**
Date: 04-03-2024	**Time: 02:00pm to 03:00pm**	**Max. Marks: 20**

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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: I[st] Sem	Subject: Data Base Management System	Code: A390020
Date: 4-03-2024	Time: 3.30pm to 4.30pm	Max. Marks: 20
Q. No. 1.	Answer any Four of the following Questions.	5×4=20
1)	What are different Components of DBMS? Explain.	
2)	Explain Data models with example	
3)	Explain hashing techniques in DBMS file Organization Process	
4)	What are the types of Indexing? Explain primary indexing in detail	
5)	Define the following a. Data Independence b. Weak Entity	
6)	Explain Three Schema Architecture with neat diagram	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: I[st] Sem	Subject: Data Base Management System	Code: A390020
Date: 4-03-2024	Time: 3.30pm to 4.30pm	Max. Marks: 20
Q. No. 1.	Answer any Four of the following Questions.	5×4=20
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2)	Explain Data models with example	
3)	Explain hashing technique in DBMS file Organization Process	
4)	What are the types of Indexing? Explain primary indexing in detail	
5)	Define the following a. Data Independence b. Weak Entity	
6)	Explain Three Schema Architecture with neat diagram	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme	
	First Internal Assessment -2023-24	
Semester: I	Subject: Data structure using C++	Code: A390030
Date: 06-03-2024	Time: 02:00 pm to 3:00 pm	Max. Marks: 20
	Answer any Five of the following Questions each carries 4 Marks.	4x5=20
1)	Highlight the features of Object Oriented Programming.	
2)	With an example, explain the use of inline function	
3)	Explain the different types of constructors with suitable examples.	
4)	Distinguish between struct and class with an example.	
5)	Explain operator overloading with example of friend function.	
6)	List down the special characteristics of statics member variables. Give an example.	
7)	Define the concept of function overloading, giving an example.	
8)	Write a C++ program to find roots of quadratic Equation	(*)

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme	
	First Internal Assessment -2023-24	
Semester: I	Subject: Data structure using C++	Code: A390030
Date: 06-03-2024	Time: 02:00 pm to 3:00 pm	Max. Marks: 20
	Answer any Five of the following Questions each carries 4 Marks.	4x5=20
1)	Highlight the features of Object Oriented Programming.	
2)	With an example, explain the use of inline function	
3)	Explain the different types of constructors with suitable examples.	
4)	Distinguish between struct and class with an example.	
5)	Explain operator overloading with example of friend function.	
6)	List down the special characteristics of statics member variables. Give an example.	
7)	Define the concept of function overloading, giving an example.	
8)	Write a C++ program to find roots of quadratic Equation	(*)

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: I	Subject: Computer System Architecture	Code: A390060
Date: 05-03-2024	Time: 03:30pm to 4:30pm	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is meant by Data Representation? Explain with example.	
2)	What are Complements? Discuss with 2's and 10's complements.	
3)	Explain in detail about Arithmetic Micro Operation.	
4)	Discuss stored Program Organisation with neat diagram.	
5)	Briefly explain Binary Adder- Subtractor & Binary Incrementor.	
6)	Discuss in detail about Register- Transfer	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: I	Subject: Computer System Architecture	Code: A390060
Date: 05-03-2024	Time: 03:30pm to 4:30pm	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	What is meant by Data Representation? Explain with example.	
2)	What are Complements? Discuss with 2's and 10's complements.	
3)	Explain in detail about Arithmetic Micro Operation.	
4)	Discuss stored Program Organisation with neat diagram.	
5)	Briefly explain Binary Adder- Subtractor & Binary Incrementor.	
6)	Discuss in detail about Register- Transfer	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme Second Internal Assessment 2023-24	

Semester: III[st] Sem	Subject: Programming Using Python	Code:
Date: 18-03-2024	Time: 2.30pm to 3.30pm	Max. Marks: 20

Q. No. 1.	Answer any Four of the following Questions.	4×5=20
1)	Explain the comparison between sets and dictionaries	
2)	Explain constructer in set and nesting in dictionaries.	
3)	What are the key properties of file? Explain in detail	
4)	What is class and explain its declaration, types of variables ad accessing them with example	
5)	State the difference between class variable and instance variable?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme Second Internal Assessment 2023-24	

Semester: III[st] Sem	Subject: Programming Using Python	Code:
Date: 18-03-2024	Time: 2.30pm to 3.30pm	Max. Marks: 20

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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: III	**Subject: C# AND .NET PROGRAMMING**	**Code: C390010**
Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
	Answer any Four of the following Questions.	***4x5=20***
1)	State the ASP.NET server control types.	
2)	Describe in short the following controls I. Button. ii. Checkbox iii. Radio Button	
3)	Explain in detail about web services in ASP.NET.	
4)	What are the ADO.NET components?	
5)	Explain Use of Dataset object in ADO.NET?	
6)	What are the differences between HTML and XML?	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
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Date: 18-03-2024	**Time: 2.30am to 03:30am**	**Max. Marks: 20**
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24		
Semester: III	Subject: Software Engineering	Code: C390050	
Date: 19-03-2024	Time: 9.30am to 10:30am	Max. Marks: 20	
	Answer any Four of the following Questions.		4x5=20
1)	Describe the golden rules for interface design.		
2)	What is V-Model explain with neat diagram.		
3)	Explain integration testing with example.		
4)	Discuss user interface design principles.		
5)	Explain how to do information Presentation.		
6)	What is testing? Explain testing approaches.		

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24		
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24		
Semester: III	Subject: Software Engineering	Code: C390050	
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	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 05-04-2024	**Time: 09:30am to 10:30am**	**Max. Marks: 20**
	Answer any five of the following questions:	**5 x 3=15**
1)	Define Cartesian product for two non empty sets A&B.	
2)	What is POSET? Give one example.	
3)	What is a relation? Write domain and range for the relation R.	
4)	Define and give example for Planar graph.	
5)	Define and give example for Path.	
6)	Define and give example for Hamilton Cycles.	
	Answer any one of the following questions:	**1x5=5**
1)	Check that the divisibility relation "a divides b" on A = {2,4,6,8,10,24,} is a Lattice	
2)	Let A= {1,2,3,4},R = {(1,1),(1,2),(2,1),(2,2),(2,3),(2,4),(3,4),(4,1)}.then draw the digraph and M_R	
3)	Let A= {1,2,3},R = {(1,1),(1,3),(2,2)(2,3),(3,2),(3,3)} is R Reflexive, Symmetric and transitive?	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Discrete Mathematical structures**	**Code: A390010**
Date: 05-04-2024	**Time: 09:30am to 10:30am**	**Max. Marks: 20**
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1)	Check that the divisibility relation "a divides b" on A = {2,4,6,8,10,24,} is a Lattice	
2)	Let A= {1,2,3,4},R = {(1,1),(1,2),(2,1),(2,2),(2,3),(2,4),(3,4),(4,1)}.then draw the digraph and M_R	
3)	Let A= {1,2,3},R = {(1,1),(1,3),(2,2)(2,3),(3,2),(3,3)} is R Reflexive, Symmetric and transitive?	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I Sem	**Subject: Data Base Management System**	**Code: A390020**
Date: 05-04-2024	**Time: 11.00am to 12.00pm**	**Max. Marks: 20**

Q. No. 1.	**Answer any Four of the following Questions.**	**4×5=20**
1)	**What is join? Explain its types and different operations with example**	
2)	**What is normalization? Explain different Normalization with example**	
3)	**Define Schedule. Explain Serealizabilty(View and Complex)**	
4)	**What is Granularity? How it males different from locking technique? Explain with example.**	
5)	**Define Transaction and explain desirable properties of Transaction**	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I Sem	**Subject: Data Base Management System**	**Code: A390020**
Date: 05-04-2024	**Time: 11.00am to 12.00pm**	**Max. Marks: 20**

Q. No. 1.	**Answer any Four of the following Questions.**	**4×5=20**
1)	**What is join? Explain its types and different operations with example**	
2)	**What is normalization? Explain different Normalization with example**	
3)	**Define Schedule. Explain Serealizabilty(View and Complex)**	
4)	**What is Granularity? How it males different from locking technique? Explain with example.**	
5)	**Define Transaction and explain desirable properties of Transaction**	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-04-2024	**Time: 09:30 am to 10:30 am**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Differentiate linear and non-linear data structure.	
2)	What are the Advantage and Disadvantage of Stack?	
3)	What is inheritance in C++ and name the different types of inheritance with examples.	
4)	Explain Virtual member functions and pure Virtual functions.	
5)	Write the postfix notation for following expression. (A+B)*C-(D-E)^F	
6)	Write C++ Program to implement Stack operations. *	
7)	What is Constructor? Explain its types with examples.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme Second Internal Assessment -2023-24	
Semester: I	**Subject: Data structure using C++**	**Code: A390030**
Date: 06-04-2024	**Time: 09:30 am to 10:30 am**	**Max. Marks: 20**
	Answer any Five of the following Questions each carries 4 Marks.	**4x5=20**
1)	Differentiate linear and non-linear data structure.	
2)	What are the Advantage and Disadvantage of Stack?	
3)	What is inheritance in C++ and name the different types of inheritance with examples.	
4)	Explain Virtual member functions and pure Virtual functions.	
5)	Write the postfix notation for following expression. (A+B)*C-(D-E)^F	
6)	Write C++ Program to implement Stack operations. *	
7)	What is Constructor? Explain its types with examples.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 06-04-2024	**Time: 11:00am to 12:00pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	With neat diagram explain CPU.	
2)	Explain in detail about stack organization.	
3)	Discus the categories of Computer Instructions.	
4)	Briefly explain Direct, Indirect, Indexed, Immediate and Relative addressing Modes.	
5)	Compare RISC with CISC machines.	
6)	What is Reverse Polish Notation? Explain with example of 3 + 6 * 5 – 2 * 8 /4	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** **M.Sc.(CS) Programme**	
	Second Internal Assessment -2023-24	
Semester: I	**Subject: Computer System Architecture**	**Code: A390060**
Date: 06-04-2024	**Time: 11:00am to 12:00pm**	**Max. Marks: 20**
	Answer any Four of the following Questions.	**4x5=20**
1)	With neat diagram explain CPU.	
2)	Explain in detail about stack organization.	
3)	Discus the categories of Computer Instructions.	
4)	Briefly explain Direct, Indirect, Indexed, Immediate and Relative addressing Modes.	
5)	Compare RISC with CISC machines.	
6)	What is Reverse Polish Notation? Explain with example of 3 + 6 * 5 – 2 * 8 /4	

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc.(CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Digital Image Processing**	**Code: D390010**
Date: 15-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**

Answer any Four of the following Questions. **4x5=20**

1) What is Digital Image? Explain its Applications.

2) Specify the basic components of image processing system

3) Explain the fundamental steps involved in Digital image processing

4) Explain Image Sampling and Quantization

5) Explain the Arithmetic and Logic operations

6) What is Histogram Processing? Explain its methods

7) Perform Histogram Stretching so that new image has a dynamic range of [0 to 7]

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	0	0	40	80	60	20	10	0

B. L. D. E. Association's

S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR

M.Sc.(CS) Programme

First Internal Assessment -2023-24

Semester: IV	**Subject: Digital Image Processing**	**Code: D390010**
Date: 15-07-2024	**Time: 10.30am to 11:30am**	**Max. Marks: 20**

Answer any Four of the following Questions. **4x5=20**

1) What is Digital Image? Explain its Applications.

2) Specify the basic components of image processing system

3) Explain the fundamental steps involved in Digital image processing

4) Explain Image Sampling and Quantization

5) Explain the Arithmetic and Logic operations

6) What is Histogram Processing? Explain its methods

7) Perform Histogram Stretching so that new image has a dynamic range of [0 to 7]

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	0	0	40	80	60	20	10	0

B.L.D.E. Association's
S.B. Arts & K.C.P. Science College, Vijayapur
DEPARTMENT OF EDUCATION
FIRST INTERNAL TEST-2023-24

Semester: PG II SEM OEC **Time: 1.00 Hr**
Sub: Strategies of Teaching **Marks: 20**

Instructions: 1. Answer any one of the Questions.
2. Question no 3 is compulsory.

1. a) Describe the elements of micro teaching. 8+8=16
ಸೂಕ್ಷ್ಮ ಬೋಧನೆಯ ಘಟಕಾಂಶಗಳನ್ನು ವರ್ಣಿಸಿ.

b) Explain the components of the skill of stimulus variation.
ಉದ್ದೀಪನ ಮಾರ್ಪಾಡು ಕೌಶಲ್ಯದ ಘಟಕಾಂಶಗಳನ್ನು ವಿವರಿಸಿ.

2 a) Explain how micro-teaching helps to improve classroom teaching skills. 8+8=16
ತರಗತಿ ಬೋಧನೆಯ ಕೌಶಲ್ಯಗಳನ್ನು ಸುಧಾರಿಸುವಲ್ಲಿ ಸೂಕ್ಷ್ಮ ಬೋಧನೆಯು ಹೇಗೆ ಸಹಾಯಕವಾಗಿದೆ ಎಂಬುದನ್ನು ವಿವರಿಸಿ.

b) Discuss the merits and limitations of lecture method.
ಉಪನ್ಯಾಸ ವಿಧಾನದ ಲಾಭ ಹಾಗೂ ಇತಿಮಿತಿಗಳನ್ನು ಚರ್ಚಿಸಿ.

3. Write short notes on any four of the following: 1x4=4
ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕರ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

a) Steps of discussion method.
ಚರ್ಚಾ ವಿಧಾನದ ಹಂತಗಳು.

b) Components of skill of explaining.
ವಿವರಣಾ ಕೌಶಲ್ಯದ ಘಟಕಾಂಶಗಳು.

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Artificial Intelligence	Code:D390020
Date: 16-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
1)	Define AI, What are the components of AI?	
2)	What Is Agent? Explain environment of an agent.	
3)	Why we use search algorithm? Explain uniformed search	
4)	Define Adversarial search. Evaluate min max algorithm	
5)	How Knowledge is been represented? Explain difference between FOL and PL	
6)	What are different quantifiers? Explain with example.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 16-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
2)	Define AI, What are the components of AI?	
2)	What Is Agent? Explain environment of an agent.	
3)	Why we use search algorithm? Explain uniformed search	
4)	Define Adversarial search. Evaluate min max algorithm	
5)	How Knowledge is been represented? Explain difference between FOL and PL	
6)	What are different quantifiers? Explain with example.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: IV	Subject: Programming Using Java	Code: B390010
Date: 16-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	What do you mean by platform independent? Explain JDK with example	
2)	Explain the inheritance with code example.	
3)	Write any 5 feature of java.	
4)	Explain the architecture of java virtual machine?	
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.	
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method. •••	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: IV	Subject: Programming Using Java	Code: B390010
Date: 16-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	What do you mean by platform independent? Explain JDK with example	
2)	Explain the inheritance with code example.	
3)	Write any 5 feature of java.	
4)	Explain the architecture of java virtual machine?	
5)	Differentiate between Procedure Oriented Programming & Object Oriented Programming.	
6)	Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method. •••	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc.(CS) Programme
First Internal Assessment -2023-24

Semester: IV	Subject: Programming Using Java	Code: B390010
Date: 16-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20

	Answer any Four of the following Questions.	4x5=20
1)	What do you mean by platform independent? Explain JDK with example	
2)	Explain the inheritance with code example.	
3)	Write any 5 feature of java.	
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	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: II Sem	Subject: Web Programming	Code: B391050
Date: 18-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	Answer any Five of the following Questions.	4×5=20
1)	What is XML namespace and DTD	
2)	Explain different formatting options in CSS with example	
3)	Write PHP program for session count.	
4)	Explain <p> <pre> <list> <table>	
5)	Explain Get and Post methods in PHP with example	
6)	Explain CSS internal and external Style sheet.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: IV	Subject: Cloud Computing	Code: D390050
Date: 18-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Cloud Computing. List out the pros and Cons.	
2)	Discuss the Cloud Components.	
3)	Explain the reasons when you should not use Cloud Computing.	
4)	Discuss in brief Services Provided by IBM.	
5)	Who are the first movers in the cloud? Explain any two.	
6)	What are the services given by Amazon? Discuss.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: IV	Subject: Cloud Computing	Code: D390050
Date: 18-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Cloud Computing. List out the pros and Cons.	
2)	Discuss the Cloud Components.	
3)	Explain the reasons when you should not use Cloud Computing.	
4)	Discuss in brief Services Provided by IBM.	
5)	Who are the first movers in the cloud? Explain any two.	
6)	What are the services given by Amazon? Discuss.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: II	Subject: Data Communication and Computer Networks	Code:
Date: 19-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
1)	Define Data Communication? Discuss the characteristics.	
2)	Explain in brief about Categories of Network .	
3)	With neat diagram discuss OSI Model.	
4)	What is meant by Periodic Analog Signals?	
5)	What is Transmission Impairment? Explain.	
6)	Briefly explain about Analog and Digital Data, Analog and Digital Signals.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc.(CS) Programme First Internal Assessment -2023-24	
Semester: II	Subject: Data Communication and Computer Networks	Code:
Date: 19-07-2024	Time: 10.30am to 11:30am	Max. Marks: 20
	Answer any Four of the following Questions.	4x5=20
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2)	Explain in brief about Categories of Network .	
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6)	Briefly explain about Analog and Digital Data, Analog and Digital Signals.	

	B. L. D. E. Association's S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR M.Sc (CS) Programme First Internal Assessment 2023-24	
Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 19-07-2024	Time: 10.30pm to 11.30pm	Max. Marks: 20

Q. No. 1.	ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS.	4×5=20
1)	What is KDD? Explain with diagram	
2)	Explain Data Preprocessing	
3)	Define Data mining with its techniques used in brief	
4)	What is multidimensional data representation? Give example.	
5)	What all kind of data can be mined? How it is viewed.	
6)	Which are the Knowledge representation methods? explain	

B.L.D.E. Association's
S.B. Arts & K.C.P. Science College, Vijayapur
DEPARTMENT OF EDUCATION
SECOND INTERNAL TEST-2023-24

Semester: PG II SEM OEC **Time: 1.30 Hr**
Sub: Strategies of Teaching **Marks: 40**

Instructions: 1. Answer any **TWO** of the Questions.
2. Question no **FOUR** is compulsory.

1. a) Explain the major characteristics of an effective teaching.
ಪರಿಣಾಮಕಾರಿ ಶಿಕ್ಷಕನ ಪ್ರಮುಖ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ 8+8

b) Describe the techniques for effective classroom teaching.
ಶಿಕ್ಷಕರು ತರಗತಿಯನ್ನು ಪರಿಣಾಮಕಾರಿಯಾಗಿಸಲು ಬಳಸುವ ತಂತ್ರಗಳನ್ನು ವರ್ಣಿಸಿ

2) a) Explain the meaning and types of communication.
ಸಂಹನದ ಅರ್ಥ ಮತ್ತು ವಿಧಗಳನ್ನು ವರ್ಣಿಸಿ 8+8

b) Describe the different strategies for effective communication.
ಪರಿಣಾಮಕಾರಿ ಸಂಸರ್ಗದ ವಿವಿಧ ತಂತ್ರಗಳನ್ನು ವರ್ಣಿ

3) a) Explain the role of Teacher in Student leaning. 8+8
ವಿಧ್ಯಾರ್ಥೀ ಕಲಿಕೆಯಲ್ಲಿ ಶಿಕ್ಷಕನ ಪಾತ್ರ ವಿವರಿಸಿರಿ.

b) Explain the barriers of communication.
ಸಂಹನದ ಅಡೆತಡೆಗಳನ್ನು ವಿವರಿಸಿರಿ.

4. Write short notes on any Two of the following: 4+4
ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಕುರಿತು ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

a) Barriers of Communication.
ಸಂವಹನದ ಅಡೆತಡೆಗಳು

b) Components of communication.
ಸಂವಹನದ ಘಟಕಾಂಶಗಳು

c) Assessment of Teacher effectiveness
ಪರಿಣಾಮಕಾರೀ ಶಿಕ್ಷಕನ ಮೌಲಮಾಪನ

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Digital Image Processing**	**Code:D390010**
Date: 29-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**

	Answer any Four of the following Questions.	**8x5=20**
1)	What is meant by histogram specification?	
2)	Explain image smoothing using ideal lowpass filters and Butterworth lowpass filters.	
3)	Explain about color image smoothing.	
4)	What are the advantages of adaptive filters? Explain about adaptive median filter	
5)	Explain about image restoration using inverse filtering. Write the draw backs of this method.	
6)	Explain about RGB color model?	
7)	Explain how periodic noise can be reduced using frequency domain filtering	
8)	What are the different ways to estimate the degradation function? Explain	
9)	What are the different types of mean filters used for noise reduction? Explain.	
10)	Explain about image restoration using minimum mean square error filtering.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Digital Image Processing**	**Code:D390010**
Date: 29-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**

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10)	Explain about image restoration using minimum mean square error filtering.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Programming Using Java**	**Code:B390010**
Date: 30-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any *Five* of the following Questions.	**5x8=40**
1)	Explain the different types of constructors with an example	
2)	Explain the different parameter passing mechanisms used in Java with an example	
3)	Describe the uses of final and super keywords with respect to inheritance.	
4)	Explain Overriding methods with examples	
5)	What is method overloading and method overriding? Explain with examples	
6)	What is an Exception? Explain the exception handling mechanism with suitable example.	
7)	Define Interface. How to implement multiple interfaces in java.	

	B. L. D. E. Association's **S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR** M.Sc.(CS) Programme **Second Internal Assessment -2023-24**	
Semester: IV	**Subject: Programming Using Java**	**Code:B390010**
Date: 30-08-2024	**Time: 10.30am to 12:00pm**	**Max. Marks: 40**
	Answer any *Five* of the following Questions.	**5x8=40**
1)	Explain the different types of constructors with an example	
2)	Explain the different parameter passing mechanisms used in Java with an example	
3)	Describe the uses of final and super keywords with respect to inheritance.	
4)	Explain Overriding methods with examples	
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7)	Define Interface. How to implement multiple interfaces in java.	

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 30-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain Types of knowledge and its representation Techniques
2. Define Inference Engine. Explain forward and backward chaining
3. Explain First Order Predicate Logic and Proposition Logic with example
4. Explain Quantifiers? Solve these examples a. Not all students like both Mathematics and Science. b. Some boys play cricket, Some boys like FootBall
5. Define Probabilistic reasoning. Explain temporal model
6. Explain HMM in probabilistic reasoning with example
7. Explain Application Features of Kalman Filter with probabilistic reasoning

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Artificial Intelligence	Code: D390020
Date: 30-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain Types of knowledge and its representation Techniques
2. Define Inference Engine. Explain forward and backward chaining
3. Explain First Order Predicate Logic and Proposition Logic with example
4. Explain Quantifiers? Solve these examples a. Not all students like both Mathematics and Science. b. Some boys play cricket and Some boys like FootBall
5. Define Probabilistic reasoning. Explain temporal model
6. Explain Hidden Markov Model in Probabilistic Reasoning with example
7. Explain Application Features of Kalman Filter with probabilistic reasoning

B. L. D. E. Association's
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme

Second Internal Assessment 2023-24

Semester: II Sem	Subject: Web programming	Code: B391050
Date: 30-08-2024	Time: 01.00pm to 2.00pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. Explain scalar types of Ruby and state the difference between Hashes and Array in Ruby with example
2. Explain code blocks and iterations in ruby with example
3. What are the roles of Rails? Explain create and insert data using Rails in data base query processing
4. Explain different Classed used in the Ruby with example
5. Explain Servlet Life cycle and Role of API in JSP
6. What is JDBC? Explain its importance of JDBC 4 Type drivers and connections
7. Explain JDBC Implementation Process in Brief with connection code.

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Semester: IV Sem	**Subject: Cloud Computing**	**Code: D390050**
Date: 30-08-2024	**Time: 01.00pm to 02.30pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	**Who is Client? Discuss the types of Clients.**	
2)	**Briefly explain Economical and Operational Benefits of SaaS.**	
3)	**Explain Safari and Google Chrome browsers.**	
4)	**Briefly explain SaaS and PaaS Cloud Services.**	
5)	**Discuss any two types of networks provided in Cloud Computing.**	
6)	**Mention the Staffing Benefits for the Providers and Consumers**	
7)	**Write a Short note on Live Mesh, Cloud Providers.**	

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Semester: IV Sem	**Subject: Cloud Computing**	**Code: D390050**
Date: 30-08-2024	**Time: 01.30pm to 02.30pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	**Who is Client? Discuss the types of Clients.**	
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Semester: II Sem	**Subject: Data Communication and Computer Networks**	**Code:**
Date: 31-08-2024	**Time: 10.30am to 12.00pm**	**Max. Marks: 40**
Q. No. 1.	**Answer any Five of the following Questions.**	**8×5=40**
1)	What is Transmission Media? Discuss any Twisted Pair Cable and Optical Fibre cable.	
2)	With a neat diagram of IPv6, Explain the structure and advantages.	
3)	What is an Error? Discuss the types of Errors with example.	
4)	Briefly discuss about- Forward Error Correction vs Retransmission, Checksum.	
5)	Explain in detail about ARP Address Mapping.	
6)	What is Multiplexing? Discuss the types.	
7)	Write a short Note on Connection Oriented and Connection Less Services, Flow Control and Error Control.	

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Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 31-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

1. What is Association rule based Mining? Explain Apriori Algorithm in DM
2. Explain Bayasian Theorem for Join probability and conditional Probability with example
3. Define Rule based classification and sequential covering method in detail
4. What are difference between supervised learning and unsupervised learning? Explain Processing steps in Classification.
5. Explain different Statistical Measures used to analyze Central tendency to find Boxplot model
6. Explain Attribute selection Process to find Gini-Index, Info-gain, Gain ratio for Any data set
7. Explain Application Features of Kalman Filter with Probabilistic Reasoning

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Second Internal Assessment 2023-24

Semester: IV Sem	Subject: Data Mining Techniques	Code: D390080
Date: 31-08-2024	Time: 10.30am to 12pm	Max. Marks: 40

Q.Num 1. Answer any Five of the following Questions. 5X8 = 40

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