Course code: 21BSC1C1CS1L

Subject : Computer Fundamentals and Programming in C

Time: 1 Hour   **Max. Marks :30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	What is computer?	
Q2	What is data processing?	
Q3	What are the different types of language?	
Q4	Define Keyword?	
Q5	Write any two library functions in c ?	
Q6	Mention different Operator in C ?	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	Write history and characteristics of Computers ?	
Q2	Explain the Structure of C Program ?	
Q3	Explain Data Type in C ?	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	Write a Syntax of Simple if and if-else statement with example	
Q2	Explain for loop with Example ?	
Q3	Write a program using switch –case ?	

Time: 1 Hour   **Max. Marks: 30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	What is #include<stdio.h>	
Q2	What are the different types of language?	
Q3	Define is Keyword ?	
Q4	What is Variable?	
Q5	Explain Input/output Statement in C	
Q6	What is Missing in the Following Statement ? **printf(" Well Come to C Programming ")** **scanf("%d" &a);**	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain C Structure ?	
Q2	Explain Different types of Data types in C ?	
Q3	Explain Character set in C ?	
Part-III	Answer any Two of the following	(5x2=10)
Q1	Explain Operator in C ?	
Q2	Write a C program to find the Addition of Two Number using scanf statement?	
Q3	Explain syntax of simple IF statement in C ?	

Time: 1 hour   Max. Marks:25
Date: 06/01/2024

Answers the following questions each question carries one mark   1X25=25

1. **Who is the Father of computer**
   A) Jon Napier   B) Charles Babbage
   C) George Boole D) John Von Neumann

   2. **Expand IoT**
   A) Internet Of Things B) International Of Things
   C) Insect Of Things   D) Industrial Of Things

   3. **Which of the following is a computer's smallest unit of data?**
      A) Byte   B) Bit
      C) Nibble   D) kilobyte

   4. **Which generation is based on VLSI Technology?**
      A) First Generation   B) Second Generation
      C) Third Generation   D) Fourth Generation

   5. **Joystick is a_____ device**
      A) Pointing   B) scanning
      C) gaming   D) None

   6. **Computer is a _____**
      A) Magnetic device   B) Electronic device
      C) Electrical device   D) None

   7. **OMR means**
      A) Optical Marker Reader   B) Optical Mark Recognition
      C) Optical Main Reader   D) Optical Meta Reader

   8. **The brain of the computer is _____**
      A) CPU   B) Memory
      C) Input Output   D) Disc

   9. **EDSAC stands for____**
      A) Electronic daily storage automatic calculator
      B) Electronic delay storage automatic calculator
      C) Electronic device storage automatic calculator
      D) Electronic Display storage automatic calculator

   10. **Which of the following is not a secondary storage**
       A) Hard Disk   B) SSD
       C) SD Card   D) RAM

   11. **What is software in the context of computers?**
   A) Hardware components   B) The physical computer
          C) Programs and instructions   D) Peripheral devices

   12. **What is the primary function of a computer's hard drive?**
   A) Displaying text   B) Storing data and files
   C) Processing calculations   D) Connecting to the internet

13. Which of the following is not an example of an operating system?

A) Windows 10   B) Microsoft Office

C) macOS   D) Linux

14. What is the primary application of AI in healthcare?

A) Video gaming   B) Disease diagnosis and treatment

C) Social media networking   D) E-commerce

15. Which are the following input devices…?

     A) Keyboard   B) Mouse

     C) Scanner   D) All the above

16. Key present in keyboards are__

     A) Alphanumeric key   B) functional key

     C) special key   D) All the above

17. one megabyte is equal to

     A) 500 bytes   B) 1000 bytes

     C) 1024 kilobytes D) none of these

18. Monitor is ___

     A) Output device B) input device

     C) manual device D) none of these

19. Function keys are_____

     A) Special key   B) F1 key

     C) Swift key   D) Alt key

20. In the keyboard, how many keys are there?

     A) 80   B) 95

     C) 13   D) 104

21. RAM stands for

     A) Read Access Memory   B) Random Access Memory

     C) Random Array Memory   D) None of these

22. Expand AI

     A) Art Of Intelligence   B) Artificial Intelligence

     C) All Intelligence   D) Actual Intelligence

23. Computers consist of _____

     A) Central Processing Unit   B) Memory unit

     C) input-output unit   D) All the above

24. The 3rd generation is based on

     A) Vacuum tube   B) Integrated circuits

     C) VLSI   D) ULSI

25. Which of the following is an output device?

     A) Keyboard   B) Mouse

     C) Scanner   D) Printer

******

Class: BSC III SEM   **Course Code: 21BSC3C3CS1L**
Time: 1 hour   **Max. Marks: 30**

I	**Answer any Five of the following**	**(2x5=10)**
Q1	What is meant by JAVA	
Q2	When & who invented java?	
Q3	What is token in Java?	
Q4	List various Java Math class	
Q5	Definition of Array & their types	
Q6	What is meant by Method overloading	
II	**Answer any Two of the following**	**(5x2=10)**
Q1	Describe the structure of Java program	
Q2	Explain different types of Java Operators with expressions	
Q3	Write different types of Java features	
III	**Answer any Two of the following**	**(5x2=10)**
Q1	Describe the various looping statements with syntax	
Q2	Write simple Java to display message	
Q3	Explain different types of token in Java	

Time: 1 hour   Max. Marks:20

Date: 08/01/2024

Answer all the following questions each carries One Mark   20X1=20

1. What is Artificial Intelligence?

   a) Artificial Intelligence is a field that aims to make humans more intelligent.

   b) Artificial Intelligence is a field that aims to improve security.

   c) Artificial Intelligence is a field that aims to develop intelligent machines

   d) Artificial Intelligence is a field that aims to mine the data

2. The capability of software to interpret the world visually through cameras, video, and images.

   A. Machine learning   B. Anomaly detection

   C. Computer vision   D. None of the Above

3. **Which of the following is a component of AI?**

   A. Learning   B. Training

   C. Designing   D. Puzzling

4. Which of the following is the branch of Artificial Intelligence?

   A) Machine Learning   B) Cyber forensics

   C) Full-Stack Developer   D) Network Design

5. Which of the following techniques extract information from scanned documents such as letters, invoices, or forms?

   A. OCR   B. OMR   C. OTR   D. None of the above

6. Azure Bot provides a service to

   A. Web chat   B. Email   C. Messaging   D. None of the above

7. What is an AI 'agent'?

   A) Takes input from the surroundings use its intelligence and perform the desired operations.

   B) An embedded program controlling the line following the robot.

   C) Perceives its environment through sensors and acting upon that environment through actuators.

   D) All of the mentioned.

8. What are the main features and capabilities of Azure Machine Learning?

   A) Pipelines   B) Automated machine learning

   C) Azure Machine Learning Designer   D) All of the above

9. You want to use the Computer Vision service to analyze images of locations and identify well-known buildings. What should you do?

   A. Retrieve the objects in the image.

   B. Retrieve the categories for the image, specifying the celebrities' domain

   C. Retrieve the categories for the image, specifying the landmarks domain.

   D. Retrieve the height and specify the name

10. Which of the following is not an application of artificial intelligence?

   A) Face recognition system   B) Chatbots   C) LIDAR   D) DBMS

11. What is the goal of Artificial Intelligence?

   A) To solve artificial problems   B) To extract scientific causes

   C) To explain various sorts of intelligence   D) To solve real-world problems

12. You are designing an AI application that uses images to detect cracks in car windshields and warn drivers when a windshield should be repaired or replaced. What AI workload is described?

       A. Computer Vision   B. Anomaly Detection

       C. Natural Language Processing   D. All of the above

13. A traffic monitoring solution to identify the location of different classes of vehicles. Is example of

       A. Object detection   B. Image Classification

       C. Natural Language Processing   D. All of the Above

14. You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which service should you use?

       A. Text Analytics   B. Translator Text

       C. Speech   D. Language Understanding (LUIS)

15. Which of the following is an application of Artificial Intelligence?

       A) It helps to exploit vulnerabilities to secure the firm

       B) Language understanding and problem-solving (Text analytics and NLP)

       C) Easy to create a website

       D) It helps to deploy applications on the cloud

16. NLP enables you to create software that can:

       A. Analyze and interpret text in documents, email messages, and other sources.

       B. Interpret spoken language, and synthesize speech responses.

       C. Automatically translate spoken or written phrases between languages

       D. All of the above

17. The steps involved in Machine Learning is

       A. Prepare data, Train model, Evaluate performance, Deploy a predictive service

       B. Train model, Prepare data, Evaluate performance, Deploy a predictive service

       C. Prepare data, Train model, deploy a predictive service, Evaluate performance

       D. Evaluate performance, Prepare data, Train model, Deploy a predictive service

18. In a college office daily attendance through a Biometric machine is an example of which of the following?

       A. Face Detection   B. Image Classification

       C. Natural Language Processing   D. All of the Following

19. Who is the inventor of Artificial Intelligence?

 A. Geoffrey Hinton   B. Andrew Ng

   C. John McCarthy   D. Jurgen Schmidhuber

20. You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which service should you use?

 A. Text Analytics   C. Translator Text

  B.   Speech   D. None of the above

      *****

Class: BSC V SEM   **Course Code: DSC6**
Time: 1 hour   **Max. Marks: 30**

Answer any Five of the following		**(2x5=10)**
Q1	What is meant by Computer Networks	
Q2	What is Protocol? List the key elements of Protocol	
Q3	What is meant by a) defacto b) dejure	
Q4	Define guided media?	
Q5	Mention the different Types of Network	
Q6	What is meant by Topology	
Answer any Two of the following		**(5x2=10)**
Q1	Describe the various Computer Network Goals	
Q2	Write the difference between Guided and Unguided Media	
Q3	Explain LAN & WAN	
Answer any Two of the following		**(5x2=10)**
Q1	Explain different types of Topology	
Q2	Explain the Reference Model for OSI.	
Q3	Describe the TCP/IP Model.	

Class :BSC V SEM   **Course Code : DSC5**
Time : 1 hour   **Max. Marks:30**

Answer any Two of the following	(2x5=10)
Q1	Define Variable.
Q2	List the features of Python
Q3	What are the modes of Python interpreter?
Q4	Define Comment and Indentation with example
Q5	Write the syntax of for loop.
Q6	Define input() and print() in Python?
Answer any One of the following	**(5x2=10)**
Q1	Write a Python function to calculate the factorial of a number
Q2	Explain Type Casting.
Q3	Explain range() function with example
Answer any One of the following	**(10x1=10)**
Q1	Explain Control Flow Statements - if, else and elif.
Q2	What is a loop? Explain different looping statement in Python
Q3	Explain different types of operators in Python in detail

Time: 1 hour   Max. Marks:30
Date: 08/01/2024

Answers the following questions each question carries one mark   1X30=30

1. Which of these is an antivirus program type?
    A. Kaspersky   B. Quick heal
    C. Mcafee   D. All of the above

2. Which of these is also malicious software?
    A. Badware   B. Malicious Ware
    C. Malware   D. Ilegalware

3. A DNS translates a domain name to which of these:
    A. Hex   B. IP
    C. Binary   D. URL

4) _____ is a type of software designed to help the user's computer detect viruses and avoid them.
    A. Malware   B. Adware
    C. Antivirus   D. Both B and C

5. The term TCP/IP stands for _____
    A. Transmission Control Protocol/Internet Protocol
    B. Transaction Control Protocol/Internet Protocol
    C. Transmission Central Protocol/Internet Protocol
    D. Transform Control Protocol/Internet Protocol

6. What is Cyber Security?
    A. Cyber Security provides security against malware
    B. Cyber Security provides security against cyber-terrorists
    C. Cyber Security protects a system from cyber attacks
    D. All of the mentioned

7. Which of the following is defined as an attempt to steal, spy, damage or destroy computer systems, networks, or their associated information?
    A. Cyberattack   B. Computer security
    C. Cryptography   D. Digital hacking

8. Which of the following is a type of cyber security?
    A. Cloud Security   B. Network Security
    C. Application Security   D. All of the above

9. What are the features of cyber security?
    A. Compliance   B. Defense against internal threats
    C. Threat Prevention   D. All of the above

10. Which of the following is not an advantage of cyber security?
    A. Makes the system slower   B. Minimizes computer freezing and crashes
    C. Gives privacy to users   D. Protects system against viruses

11. "Cyberspace" was coined by _____
    A. Richard Stallman   B. William Gibson
    C. Andrew Tannenbaum   D. Scott Fahlman

12. Which of the following is defined as an attempt to harm, damage or cause threat to a system or network?
    A. Digital crime   B.Threats
    C. System hijacking   D. Cyber Attack

13. The process of encoding data to protect it from unauthorized access is known as ___
    A. Encryption   B.Firewall
    C. Intrusion Detection   D.Multi-factor Authentication

14. Who invented WWW _____
    A. Tim Berners-Lee   B. James Gosling
    C. William Gibson   D. Robert

15. Expand ARPANET
    A. Advanced Research Projects Agency Network
    B. Advanced Research Portable Agency Network
    C. Area Research Projects Agency Network
    D. Advanced Research Projects Alternet Network

16. Expand IETF
    A. Internet Engineering Task Force   B. Internet Easy Task Force
    C. Information Engineering Task Force D. Internet Engine Task Force

17. Which of these is a computer technologies?
    A. Web Browser   B. Networking
    C. Web Servers   D.WWW

18. The Innovation phase was happened in the year _____
    A. 1975-95   B. 1961-74
    C. 1995- onwards   D. None of the above

19. Expand ICANN
    A. Internet Corporation for Assigned Names and Numbers
    B. India Corporation for Assigned Names and Numbers
    C. Information Corporation for Assigned Names and Numbers
    D. Internet Condition for Assigned Names and Numbers

20. Expand QoS
    A. Quality of Service   B. Quantity of Service
    C. Quality of Security   D. Quantity of Security

21. Cyber Threat is a _____
    A. A threat may or may not be Malicious   B. A threat may be Malicious
    C. A threat is always Malicious   D. None of the above

22. Cyber Attack is always _____
    A. Malicious   B. Protective
    C. Security   D. All the above

23. Issues of Cyber Security are_____
    A. Cyber Attacks   B. Data Breaches
    C. Resource Constraints   D. All the above

24. Expand IESG
    A. Internet Engineering Steering Group B. Internet Engineering Stage Group
    C. Internet Engineering Security Group D. International Engineering Steering Group

25. Backbone networks are _____
    A. High-speed   B. low-speed
    C. Average   D. None of the above

26. According to Moore's Law the processing power of computer _____ every two years.
    A. Increases   B. Doubles
    C. Decreases   D.All the above

27. Official Birthday of Internet is_____
    A. Jan 1,1983   B. Jan 10, 1999
    C. Jun 1,1980   D. Jan 1, 1982

28. Communication and Web technology consist of_____
    A. Internet   B. Web Browser
    C. Mobile Web   D. All the above

29. W3C stands for _____
    A. World Wide Web Consortium   B. World Wide Web Constant
    C. None   D. World Wide Web Communications

30. AWS Stands for _____
    A. Amazon Window Service   B. Amazon Web Service
    C. Amazon Window Security   D. None of the above

Course code: 21BSC1C1CS1L

Subject : **Computer Fundamentals and Programming in C**

Time: 1 Hour   **Max. Marks :30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	Define Loop?	
Q2	Define function in C ?	
Q3	Define Array?	
Q4	List the different types of Array in C?	
Q5	List any Four String Handling Function ?	
Q6	Define Pointer ?	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain For loop with example?	
Q2	Write difference between While and do-while loop ?	
Q3	Write a program to generate N natural Number using for loop ?	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain String handling function in c ? with example	
Q2	Explain Pointer Declaration and Initialization in C ?	
Q3	Explain Category of Function in C ?	

Time: 1 Hour   **Max. Marks: 30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	Define C Tokens ?	
Q2	What is identifier?	
Q3	Define is Keyword ?	
Q4	What is Variable?	
Q5	Define scanf( ) in C ?	
Q6	Define Decision making Statements in C ?	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain C Structure ?	
Q2	Explain Operator in C ?	
Q3	Write a program to find the Biggest of Two Number ?	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain for loop with Example	
Q2	Explain Array with Syntax ?	
Q3	Difference between While and do-while	

Time: 1 hour   Max. Marks:25
Date: 06/01/2024

Answers the following questions each question carries one mark   1X25=25

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******

Semester: B.Sc.-III	Subject: OOPS Concepts & Programming Java	Code: 21BSC3C3CS1L
Date: 9/02/2024	Time: 12:00 TO 1:00	Max. Marks: 30

Q. No. 1.	**Answer any Five of the following Questions.**	5×2=10
a)	What is meant by Inheritance?	
b)	What is meant by Dynamic Binding	
c)	Define Polymorphism	
d)	What is meant by Constructors	
e)	List the Java uses for this keyword	
f)	What does Java's Finalizes function do?	
Q. No II	**Answer any Two of the following Questions.**	2×5=10
a)	Describe the concept of method overriding with a program.	
b)	Illustrate String Class in java	
c)	Explain on Interface in Java	
Q. No. III	**Answer any One of the following Question.**	1×10=10
a)	Explain different types of Inheritance with syntax	
b)	WAP on add two integers and two float numbers .when no arguments are supplied ,give a default value to calculate the sum .Use function overloading	

Class: BSC V SEM   **Course Code: DSC6**
Date: 14-02-2024   **Time: 1 hour**   **Max. Marks: 30**

Answer any Five of the following	(2x5=10)
Q1 What is meant by Framing	
Q2 Define Checksum	
Q3 What is meant by Switching	
Q4 What is meant by Alloha	
Q5 Define Hamming Distance	
Q6 What is meant by Multiplexing	
Answer any Two of the following	**(5x2=10)**
Q1 Explain the character count method of framing	
Q2 Describe stop and wait protocol with example	
Q3 Illustrate on transmission impairment	
Answer any One of the following	**(10x1=10)**
Q1 Explain types of services provided to the Network Layer	
Q2 Solve on CRC Problem Frame is 1101011011 and Generator is 10011	

Class :BSC V SEM   **Course Code : DSC5**
Time : 1 hour   **Max. Marks:30**

Answer any Five of the following		(2x5=10)
Q1	What are python strings?	
Q2	Define List in python.	
Q3	What is tuple?	
Q4	Define str() in Strings of python	
Q5	Define raw string.	
Q6	Define Unicode	
Answer any Two of the following		**(5x2=10)**
Q1	Define list slicing in Python. Provide examples to show how list slicing works and how it can be used to extract specific elements from a list.	
Q2	Demonstrate importing the math module and perform any five math functions.	
Q3	Describe the concept of key-value pairs in dictionaries. Provide an example, and explain how keys and values are associated in a dictionary.	
Answer any One of the following		**(10x1=10)**
Q1	Explain and provide examples for following built-in functions in Python –capitalize(), title(), isupper(), lower() and replace()	
Q2	Explain the different list methods with an example. Find the largest and smallest element in the list	
Q3	Explain operations on sets in detail.	

Course code: 21BSC2C2CS2L
Subject : **Data Structures using C**

Time: 1 Hour   **Max. Marks :30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	Define a data structure.	
Q2	What is an array?	
Q3	Differentiate between linear and non-linear data structures.	
Q4	Define searching and sorting.	
Q5	Define Primitive and Non-Primitive Data Structure?	
Q6	List different types of Searching Techniques	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain the difference between internal and external sorting.	
Q2	Explain Classification of Data Structure ?	
Q3	Explain Operations on Data Structure ?	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	Write advantages and disadvantages of linear search ?	
Q2	Difference between Sequential Search and Binary Search	
Q3	Explain Bubble sort with an Example ?	

Time: 1 Hour   **Max. Marks: 30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	What is the Internet?	
Q2	What was ARPANET?	
Q3	What are the different Web Programming Languages?	
Q4	What is the full form of HTML?	
Q5	What is World Wide Web (WWW)?	
Q6	What is URL?	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	What is Web Content?	
Q2	What is Web Page?	
Q3	What is Home Pages?	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	What is Web Browser?	
Q2	What is packet switching?	
Q3	What are TCP/IP protocols?	

BLDEA's S.B. Arts and K.C.P. Science College, Vijayapur
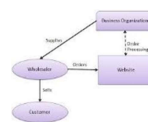**First Internal Test - Skill Enhancement Course – Digital Fluency**
Time : 1 hour   **BA – II Semester for the year 2023-24**   Max. Marks: 25

Date :

1. All Mathematical Calculation can be done in………?
   a) CPU Unit b) ALU Unit c) Input Unit d) All of them
2. The characteristics of the computer system capable of thinking, reasoning andlearning is known is
   a) Machine Intelligence b) Human Intelligence c) Artificial Intelligence   d)Virtual Intelligence
3. CPU Stands for………..
   a) Common unit b) Central Processing Unit c)Control Processing Unit d) All
4. Expand IaaS
   a) Infrastructure as a Service   b) Internet as a Service c) Interface as a Service   d) Industry as a Service
5. What is the full form of "ML"?
   a) Machine Learning b) Machine Looking c) Mechanic Link d) Many Learning
6. Machine learning is a subset of ....
   a) Deep Learning   b) Artificial Intelligence   c) Data Learning   d) None of the above
7. Third Generation Computer are…………
   a) Vacuum Tube b)Micro-processor c)Integrated Circuits d)All
8. _____ is a network of Internet-linked devices, vehicles, and appliances that cancollect and share data without the need of human interaction
   a) Internet of things b) Web browsers   c) Search engines   d) Google
9. ALU Stands For…………
   a) Algorithm logical unit b) Arithmetic logical unit c) memory unit d) All
10. Second are invited in which year?
    a)1951-1940   b)1964-1971   c)1940-1956   d)1956-1963
11. How Many Types Of service Models are there in Cloud Computing?
    a) 8   b) 6   c) 1   d) 3
12 Big Data are _____.
   a) Big data analysis derives innovative solutions. b)Big data analysis helps in understanding and targeting customers.
   c) It helps in optimizing business processes.   d) All of the above
13 Example for Fifth Generation Computer?
   a) IBM PC b) APPLE II c) Magnetic tapes d) laptops
14 MOOC stand For ……….
   a) e-learning   b)Massive open course c)online course d) none of these
15 Identify the image Sensor
   a) Arduino uno b) Heart Beat Sensor c) Bread Board d) None of these
16 Assets like Residential property, Car, Motorcycle example of E-Commerce Businessmodels
   a) B2B   b) B2C   c) C2C   d) C2B
17 ATM Stand for …………
   a) Automated teller machine b)e-money   c)Auto teller cash d) All
18 Identify the image
   a)B2B   b) B2C   c) C2C   d) C2B
19 NCERT Stands for?
   a) National Programme on Technology Enhanced Learning
   b) National Council of Educational and Research and Training
   c) National institute of Open Schooling
   d) National Institute of Technical Teachers and Research
20 In the Healthcare Industry, AI has disrupted:
   a) Medical Imaging   b) Surgery   c) Physiological Diagnosis   d) None of the above
21 Which of the following is an example of natural language processing (NLP)?
   a) Facial recognition   b)Speech recognition c) Image classification d) Sensor data analysis
22 Ctrl + S is used to
   a) Save the Document   b) Open the Document   c) Create a New Document   d) Close the Document
23 What is Cloud Computing?
   a) Cloud Computing means providing services like storage, servers, database, networking, etc.
   b) Cloud Computing means storing data in a database   c) Cloud Computing is a tool used to create an application
   d) None of the mentioned
24 EFT Stands for?
   a) Electronic fund Transfer b) Electrical fund Transfer   c) Electronic fund Transport d) None of these
25 What is Operating System?
   a) It helps in optimizing business processes b) Interface between user and computer
   c) Instruction or command that tells a computer what to do   d) None of these

Class: BSC IV SEM **Course Code: 21BSC4C2CS2L**
Time: 1 hour **Max. Marks: 30**

Answer any Five of the following		**(2x5=10)**
Q1	What is the DBMS	
Q2	What is Data Model	
Q3	Define Entity	
Q4	Define Attribute	
Q5	What is Foreign Key	
Q6	What is meant by Constraints	
Answer any Two of the following		**(5x2=10)**
Q1	Describe Database User	
Q2	Explain Different Database Language	
Q3	Why we use ER Diagram in DBMS	
Answer any Two of the following		**(5x2=10)**
Q1	Draw the ER diagram on College	
Q2	Explain different types of entity with example	
Q3	Write a note on Primary , Composite & Alternate Key	

BLDEA's S.B. Arts and K.C.P. Science College, Vijayapur
First Internal Test for BSc –IV Sem for the year 2023-24
Time : 1 hour   Skill Enhancement Course – Artificial Intelligence   Marks:20

1. **AI stands for**
a) Artificial Intelligence b) Art of Intelligence c) All Intelligence d) Actual Intelligence

2. **What is Artificial Intelligence?**
a) Artificial Intelligence is a field that aims to make humans more intelligent
b) Artificial Intelligence is a field that aims to improve the security
c) Artificial Intelligence is a field that aims to develop intelligent machines
d) Artificial Intelligence is a field that aims to mine the data

3. **The capacity of software to interpret the world visually through cameras, videos, and images**
a) Machine Learning   b)Anomaly detection c) Computer Vision d)None of the above

4. **A traffic monitoring solution to identify the location of different classes of vehicle. Is example of**
a) Object detection   b) Image Classification c) Natural Language Processing d) All of them

5. **Who is the inventor of Artificial Intelligence?**
a) Geoffrey Hinton   b) Andrew Ng   c) John McCarthy   d) Jurgen Schmidhuber

6. **In college office daily attendance through Biometric machine is an example of which of the following?**
a) Face Detection   b) Image Classification c) Natural Language Processing d) All

7. **If system is trained by labeling the objects is called**
a) Supervised ML   b) Unsupervised ML   c) Self-Learning   d) None of Them

8. **What are the main features and capabilities of Machine Learning?**
a) Pipelines   b) Automated machine learning c) Azure machine learning designer d) All

9. **AI applications to "see" the world and make sense of it**
a) Computer Vision b) Real time vision   c) Machine vision   d) None

10. **Which of the following is an example of natural language processing ?**
a) Facial recognition   b)Speech recognition c) Image classification d) Sensor data analysis

11. **You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which service should you use?**
a) Text Analytics   b) Translator Text   c) Speech   d) Language Understanding

12. **Which of the following is a component of Artificial Intelligence?**
a) Learning   b) Training   c) Designing   d) Puzzling

13. **What is Mining?**
a) To solve artificial problems b) To extract scientific Causes c)Digging the knowledge   d) All

14. What is NLP?
a) Natural Language Processing b) Nature Language Processing c) Language Processing d) All

15. Steps involved in Machine Learning is
a) Preparedata,Trainmodel,Evaluateperformance,Deployapredictiveservice
b) Trainmodel,Preparedata,Evaluateperformance,Deployapredictiveservice
c) Preparedata,Trainmodel,Deployapredictiveservice,Evaluateperformance
d) Evaluate performance, Prepare data, Train model, Deploy a predictive service

16. You want to use the Computer Vision service to analyze images. You also want to use the Language service to analyze text. You want developers to require only one key and endpoint to access all of your services. What kind of resource should you create in your Azure subscription?
a) Computer Vision b) Cognitive Services c) Natural language Processing d) None

17. Which of the following is not a type of Artificial Intelligence agent?
a) Learning AI agent   b) Goal-based AI agent   c) Simple Reflex AI agent   d) Unity-based AI agent

18. What are the main features and capabilities of Azure Machine Learning?
a) Pipelines   b) Automated machine learning c) Azure Machine learning designer   d) All of the above

19. Which of the following is not an application of Artificial Intelligence?
a) Face Recognition system   b) Chatboats   c) Lidar   d) DBMS

20. SQL Means?
a) Structure Query Language   b) Simple Query Language c) Super Query Language d) Single Query Languages

BLDE Association's
S.B Arts & K.C.P Science College, Vijayapur
First Internal Test 2023-24
Web Technologies

Class: BSC VI SEM   **Course Code: DSC7-21BSC6CSMJ1L**

Time: 1 hour   **Max. Marks: 30**

Answer any Five of the following	(2x5=10)
Q1	What is the Internet?
Q2	What is World Wide Web (WWW)?
Q3	What is Web Content?
Q4	What is Web Page?
Q5	What is Home Pages?
Q6	What is packet switching?
Answer any Two of the following	**(5x2=10)**
Q1	What is the difference between HTTP and HTTPS?
Q2	Describe the basic structure of an HTML document ?
Q3	What are the main functions of a web server?
Answer any Two of the following	**(5x2=10)**
Q1	What is CSS and how does it enhance web development?
Q2	What is the role of JavaScript in web development?
Q3	What is the role of a web server, and how does it interact with a client browser?

Subject: Statistical Computing & R Programming   Date: 9/7/2024
Class: BSC VI SEM   Course Code: DSC8
Time: 1 hour   Max. Marks: 30

Answer any Five of the following	(2x5=10)
Q1 What is R Programming	
Q2 What is the use of readlines() function	
Q3 What is data frame	
Q4 Who developed R programming & When	
Q5 List different type of R Operators	
Q6 What are the factors	

Answer any Two of the following	(5x2=10)
Q1 What are the main characteristics of R Programming	
Q2 List and define Data Types in R	
Q3 How to create a user define function in R	

Answer any Two of the following	(5x2=10)
Q1 What types of loops exist in R & what is the syntax of each type	
Q2 List & define the control statements in R	
Q3 What are Advantages and disadvantages of using R	

Course code: 21BSC2C2CS2L   Subject : **Data Structures using C**
Time: 1 Hour   Max. Marks :30

Part-I	Answer any Five of the following	(2x5=10)
Q1	Convert the following expression to postfix i) (a+b)*(c-d) ii) a+(b*c)-d/q	
Q2	Compare Queue and Circular queue.	
Q3	Differentiate between Calloc and Malloc	
Q4	Define Degree of a node in tree?	
Q5	Define Recursion ?	
Q6	What is a binary tree?	

Part-II	Answer any Two of the following	(5x2=10)
Q1	Write a note on stack.	
Q2	Define the terms Heap, Complete binary tree and Bianry search tree. Give one example for each.	
Q3	Explain the various types of Queues.	

Part-III	Answer any Two of the following	(5x2=10)
Q1	What do you mean by static and dynamic memory allocation? Explain any two dynamic memory allocation function.	
Q2	Write a note on tree traversal	
Q3	Evaluate the postfix expression AC – AB + * where A=10.6 B=6.2 and C =8.4	

Time: 1 Hour   **Max. Marks: 30**

Part-I	Answer any Five of the following	(2x5=10)
Q1	What is JavaScript object?	
Q2	How do you create an object in JavaScript??	
Q3	How do you write a single-line comment in JavaScript?	
Q4	How do you declare a variable in JavaScript?	
Q5	What are the primitive data types in JavaScript?	
Q6	How do you display an alert box in JavaScript?	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	How do you concatenate two strings in JavaScript?	
Q2	How do you prompt the user for input in JavaScript?	
Q3	What is the syntax for an if statement in JavaScript?	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	How do you write a for loop in JavaScript?	
Q2	How do you add a new property to an existing JavaScript object?	
Q3	How do you create an array in JavaScript?	

BLDEA's S.B. Arts and K.C.P. Science College, Vijayapur
Second Internal Test - Skill Enhancement Course – Digital Fluency
Time : 1 hour   BA – II Semester for the year 2023-24   Max. Marks: 25

Date :

12. Microsoft word is _____ software.

   a) Application   b) Compiler   c) System   d) Programming

13. Which is not in MS Word?

   a) a) Italic   b) Magic tool   c) Font   d) Bold

14. Which of the following software is used for making a resume?

   a) a) MS Excel   (b) MS Word   (c) Dev C   (d) Java

15. Press _____ to open the help window in the MS Word document.

   a)   (a) F1   (b) F2   (c) F9   (d) F11

5. The name of a word document displays in _____.

   a) (a) Ribbon   (b) Title bar   (c) Tool bar   (D) Home tab

6. Which enables us to send the same letter to different people?

   a) a)Macros   b)Template   c)Mail merge   d)None of above

7. Ctrl + N is used to

   a) (a) Save the Document   b)Open the Document   c) Create a New Document   d) none

8. How Cells are named in MS Excel?

   a) Alphabetically   b) Numerically   c) Alphanumerically   d) Special Character

9. What is the extension file excel 2007 and above ?

   a) .xls   b) .excel   c) .xlsx   d) .xcl

10. What is the maximum limit of rows in MS Excel 2010?

   a) 1084567   b) 1048567   c) 1048576   d) 1084576

11. What is the maximum limit of column in MS Excel 2010?

   a) 16384   b)16438   c) 16843   d) 16348

12. Which bar lies top of the window in Excel Screen?

   a) Status Bar   b) Ruler   c) Title Bar   d) Scroll Bar

13. How rows are numbered in MS Excel?

   a) Alphabetically   b) Numerically   c) Alphanumerically   d)Special characters

14. How columns are named in MS Excel?

   a) Alphabetically   b) Numerically   c)Alphanumerically   d) Special characters

15. Which tab is used to include pivot table, charts, hyperlinks to a spread sheet?

   a) Insert   b) Page Layout   c) Data   d) Review

16. Ctrl + z is used to

   a) Redo   b) Copy   c) Paste   d)Undo

17. Alt + p is used to

   a) Insert   b) Page Layout   c) References   d) Review

18. HTTPS stands for

   a) Hypertext Transfer Protocol Secure.   b) Hypertext Transfer Protocol   c) Hypertext Transport Protype   d) all

19. NAT stands for

   a) Network address translation   b)National Tranport   c) Network Aadhar Network   d) none

20. Black Hats are know as___

   a) Hackers   b) Crackers   c) Elders   d) All of the above

21. Google map is example of which Cookies ___

   a) Session Cookies   b) Permanent Cookies   c) Third-Party Cookies   d) all

22. Residential property, cars, motorcycles are which type of e-commerce

   a) B2B   b)B2C   c) C2C   d) C2B

23. Ctrl + O is used to

   a) Paste   b) Copy   c) open a workbook   d) close a workbook

24. E-commerce stands for

   a) Electrical commerce   b) Electronic commerce   c) Entertainment commerce   d) all

25. Which of the following is a Cyber Security?

   a) Cloud Security   b) Network Security   c) Application Security   d) All of these

Class: BSC IV SEM   **Course Code: 21BSC4C2CS2L**
Time: 1 hour   **Max. Marks: 30**

Answer any Five of the following		(2x5=10)
Q1	Define Normalization.	
Q2	What is mean by Join operation?	
Q3	Define Anomalies.	
Q4	What is meant by decomposition?	
Q5	Expand PL/SQL.	
Q6	Write the command to create employee table.	
Answer any Two of the following		**(5x2=10)**
Q1	Explain structure of Relational Module.	
Q2	Explain Different types of Relational Algebra.	
Q3	Define view and write their advantages.	
Answer any Two of the following		**(5x2=10)**
Q1	Describe characteristics of Relations.	
Q2	Explain the features of PL/SQL.	
Q3	Explain the types of Normalization with example	

First Internal Test for BSc –IV Sem for the year 2023-24

Time : 1 hour   Skill Enhancement Course – Artificial Intelligence

         Marks:20

Date :

1. Azure Bot provide a service to
a) Web chat   b) e mail   c) Messaging   d) None of these

2. File extension of Excel data file
a) .exe   b) .exl   c) .exc   d) .xls

3. A _____ database is a flexible type of database that does not use tables to store data.
a) NoSQL   b) PL-SQL   c) NSQL   d)SQL

4. DB means
a) Data Base   b) Data Bit   c) Data Band   d) Data Brand

5. Expand RDBMS
a) Relation Database Management System   b) Rational Database Management System
c) Radical Database Management System   d) all of the above

6. What is cardinality?
    a) Cardinality is the measure of unique values in a table.   b)Cardinality is the granularity of the data.
    c) Cardinality is how long it takes for the data to load.   d) none of these

7. How do you visualize data?
a) By bar chart   b) By line chart   c) By pie chart   d) All of the above

8. Short cut key to create group in Power BI
    a) Ctrl + Click   b) Ctrl + a   c) Ctrl + b   d) Ctrl + g

9. In which year Azure launched?
    a) 2001   b) 2010   c) 2005   d)2011

10. Which of the following web applications can be deployed with Azure?
a) PHP   b) WCF   c) WEB   d) All of the above

11. Azure offers how many Service Models?
a) 2   b) 5   c) 4   d)3

12. What is abbreviation of PaaS?
a) Platform as a Service   b) Platform as azure Service   c) programming as a Service   d)None of the above

13. _____Number of informed search method are there in AI?
a) 4   b) 3   c) 2   d) 1

14. Which of the following are the approaches to AI?
a) Applied approach   b) Strong Approach   c) weak approach   d) All

15. Zoom is the example of which service model?
a) PaaS   b) SaaS   c)IaaS   d) None of these

16. Which of the following are the 5 big ideas of AI?
a) Perception   b) Human-AI Interaction   c) Societal Impact   d) All of the above

17. Which Technique serves as the basic for modern image classification solution?
a)Deep learning   b) Anomaly detection   c) Linear Regression   d) Multiple Linear Regression

18. What are the three main authoring tool an the Azure ML Studio home screen?
a) Notebook   b) Designer   c) Automated ML   d) All of the above

19. The application of AI is?
a) Gaming   b) Vision System   c) Expert System   d) All of the above

20. In which university the first demonstration of AI program run?
a) Oxford University   b) Stanford University
c) Cambridge University   d) Carnegie Mellon University

Class: BSC VI SEM **Course Code: DSC7-21BSC6CSMJ1L**
Time: 1 hour **Max. Marks: 30**

	Answer any Five of the following	**(2x5=10)**
Q1	What is a JavaScript object?	
Q2	How do you declare a variable in JavaScript?	
Q3	What are the primitive data types in JavaScript?	
Q4	How do you display an alert box in JavaScript?	
Q5	How do you add a new property to an existing JavaScript object?	
Q6	How do you create an array in JavaScript?	
	Answer any Two of the following	**(5x2=10)**
Q1	**Describe the role and importance of JavaScript in web development.**	
Q2	Explain how JavaScript supports object-oriented programming (OOP) and provide an example.	
Q3	Discuss the significance of JavaScript's dynamic typing and provide an example.	
	Answer any Two of the following	**(5x2=10)**
Q1	How do you handle screen output and keyboard input in JavaScript? Provide examples for both	
Q2	Explain the different control statements in JavaScript with examples.	
Q3	What are constructor functions in JavaScript? How are they used to create objects? Provide an example.	

Subject: Statistical Computing & R Programming   **Date: 5/8/2024**
Class: BSC VI SEM   **Course Code: DSC8**
Time: 1 hour   **Max. Marks: 30**

Answer any Five of the following	(2x5=10)
Q1 Define a class object in S3 system.	
Q2 Define a class object in S4 system.	
Q3 What is meant by Generic function?	
Q4 What is meant by package?	
Q5 Define a constructor in S3.	
Q6 Write the Standard deviation formula.	

Answer any Two of the following	(5x2=10)
Q1 Explain the comparison between S3 and S4 system	
Q2 Explain mean, mode and median with example using the following data set 8,7,3,4,2,18,54,8,8	
Q3 Mention different types of R packages.	

Answer any Two of the following	(5x2=10)
Q1 Write the structure of try catch() function.	
Q2 Solve by linear regression of predicting Pizza prizes Diameter x=(8,10,12) Prize y=(10,13,16)	
Q3 Write the advantages and disadvantages of linear regression	