

BLDEA's
S.B. Arts and K.C.P. Science College, Vijayapur
Department of Computer Science

REPORT

ON

VALUE ADDED COURSE IN

“FUNDAMENTALS OF COMPUTER HARDWARE”

FOR THE ACADEMIC YEAR 2023-24

To
The Principal
S.B.Arts and K.C.P Science College
Vijayapur

Date :06/11/2023

Subject: Permission for conducting value added course in Computer Science department for BSc. I SEM students.

Respected Madam,

I am writing to seek your kind permission to conduct a value-added course for our students, as discussed during the recent department meeting held on 06/11/2023.

We have outlined the course structure, duration, and resource requirements during our department meeting. I would be happy to share the detailed course plan and discuss any further considerations at your convenience.

The course will be benefitting the students to bridge curriculum gap between first year learning and higher semesters prerequisite by training them on **FUNDAMENTALS OF COMPUTER HARDWARE**. It will serve as a supplement to the regular curriculum, offering students an opportunity to gain practical insights and develop competencies that are crucial for their future endeavours.

Objective: To provide additional learners-centric graded skill oriented training with
Primary objectives of improving the employability skill.

Outcomes: At the end of the course the student will be able to understand
Comprehensive Knowledge of Hardware Components Practical Skills
in Assembling and Disassembling Computers , Familiarity with
Input/Output Devices Enhanced Technical Communication.

Name of the department: Computer Science

Title of the course: FUNDAMENTALS OF COMPUTER HARDWARE

Course code: 23UGVACSO1

Semester: BSc I SEM

Duration of the course: 30 Hours

Course Coordinator: Prof.S.G.Joshi

Type of Assessment: Theory 30 marks and Practical 20 marks (Total 50 Marks).

Your approval will allow us to move forward with the necessary preparations and ensure the successful execution of the course.

Thank you for your time and consideration. We look forward to your positive response.



HoD

Prof. S. G. Joshi
HEAD OF THE
BSc Computer Science Department
BLDEA's S. B. Arts & K.C.P. Science College,
VIJAYAPURA-586103



Department of Computer Science

VALUE ADDED COURSE IN FUNDAMENTALS OF COMPUTER HARDWARE

Course Code : 23UGVACSO1

List of Faculty Members

1. Prof. S.G. Joshi
2. Prof. L.A. Nuchhi

Distribution of Syllabus

Sl. No.	Name of the Teacher	Hours
1	Prof. S.G. Joshi	2 hr /week
2	Prof. L.A. Nuchhi	1 hr /week


Prof. S. G. Joshi
HEAD OF THE
BSc Computer Science Department
BLDEA's S. B. Arts & K.C.P. Science College,
VIJAYAPURA-586103


IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.


Principal,
S.B.Arts & KCP. Sc. College,
Vijayapur.



B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE
Bangaramma Sajjan Campus, Shri B. M. Patil Road (Solapur Road), Vijayapur-586 103
Accredited with CGPA of 2.99 at 'B⁺⁺' Grade in 4th Cycle by NAAC
(Affiliated to Rani Channamma University, Belagavi)



Department of Computer Science

VALUE ADDED COURSE IN FUNDAMENTALS OF COMPUTER HARDWARE

Course Code : 23UGVACS01

List of Faculty Members

1. Prof. S.G. Joshi
2. Prof. L.A. Nuchhi

Distribution of Syllabus

Sl. No.	Name of the Teacher	Hours
1	Prof. S.G. Joshi	2 hr /week
2	Prof. L.A. Nuchhi	1 hr /week

Prof. S. G. Joshi
HEAD OF THE
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Date : 25/11/2023

Notice

Department of Computer Science

The students of B.Sc. I Semester are here by informed that, the department of Computer Science is conducting **Value Added Course in “Fundamentals of Computer Hardware”**. The students, who are having interest in Value Added course, should enroll their names by consulting Ms. Rajeshwari Hatagar, Department of Computer Science on or before 30th November, 2023 without fail.



HOD

Prof. S. G. Joshi

HEAD OF THE

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Date : 01/12/2023

Notice

Department of Computer Science

The theory classes and practicals for the **“Value Added Course in Fundamentals of Computer Hardware”** will commence from **4th December, 2023**. The students, who have enrolled should note the same and attend the classes as per time table displayed on notice board.


Prof. S. G. Joshi
HOD
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Department of Computer Science

VALUE ADDED COURSE IN "FUNDAMENTALS OF COMPUTER HARDWARE"

Course Code: 23UGVACSO1

OBJECTIVE:

1. Identify the names and distinguishing features of different kinds of input and output devices.
2. Describe how the CPU processes data and instructions and controls the operation of all other devices.
3. Identify the names, distinguishing features, and units for measuring different kinds of memory and storage devices.
4. Identify the names and functions of hardware ports and the parts of the motherboard.

Course duration: 30 hrs

The theory classes and practical classes will be conducted as per the time table. At the end of the course internal test will be conducted for 50 marks (30T+20P). The qualified students will get the certificate after completion of course.

HOD

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Principal

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Department of Computer Science

VALUE ADDED COURSE IN "FUNDAMENTALS OF COMPUTER HARDWARE " Course Code: 23UGVACSO1

SYLLABUS :

Total – 30 hrs

Unit I : Computer Fundamentals. - Introduction to Computers, Types of Computers. Introduction to Input Devices: Categorizing Input Hardware, Keyboard, Card Readers, Scanning Devices — O.M.R., Character Readers, Thumb Scanner, MICR, Smart Cards, Voice Input Devices, Pointing Devices — Mouse, Light Pen, Touch Screen. Output Fundamentals- Introduction to Output Devices, Impact Printers, Non-Impact Printers, Plotters, Computer output Microfilm/Microfiche (COM) systems, Softcopy Output Devices, Cathode Ray Tube, Flat Screen Technologies, Projectors, Speakers.	10hrs
Unit II: Introduction to Storage Devices. Central Processing Unit: The Microprocessor, control unit, A.L.U., Registers, Buses, Main Memory, Main Memory (RAM) for microcomputers, Read Only Memory(ROM). Storage Devices: Storage Fundamentals, Primary and Secondary Storage, Data Storage and Retrieval Methods — Sequential, Direct & Indexed Sequential, Tape Storage and Retrieval Methods Tape storage Devices, characteristics and limitations, Direct access Storage and Microcomputers – Hard Disks, Disk Cartridges, Direct Access Storage Devices for large Computer systems, Mass storage systems and Optical Disks, CD ROM.	10hrs
Unit III: Hardware Configuration, Basic Electricity and Electronics. Work of Different ICs. Assembling a PC. Basic Trouble shooting during the assembling. Installing Operating System.	10hrs

Reference Books :

- Fundamentals of Computer Hardware by Mandeep S. Bhatia
- Fundamentals of Computers Sixth Edition PHI Publication by V. Rajaraman

Prof. S. G. Joshi
HOD
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Department of Computer Science

VALUE ADDED COURSE IN "FUNDAMENTALS OF COMPUTER HARDWARE"

Course Code: 23UGVACSO1

Time Table 2023-24

Day/Time	Monday	Tuesday	Wednesday
5.00pm to 6.00pm	B.Sc. I SGJ	B. Sc. I LAN	B.Sc. I SGJ

SGJ : Prof. S.G. Joshi, LAN: Prof. Laxmi Nuchhi


Prof. S. G. Joshi
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Department of Computer Science

VALUE ADDED COURSE IN "FUNDAMENTALS OF COMPUTER HARDWARE"
Course Code: 23UGVACS01

LIST OF STUDENTS ENROLLED FOR THE COURSE

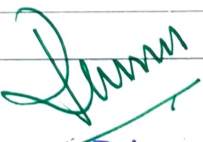
SL NO	UUCMS No.	Name of the Students
1	U15KM23S0004	PRATEEKSHA JYOTIBA SHELAMKAR
2	U15KM23S0005	PRIYA VITHAL BENKI
3	U15KM23S0007	SHIVANAND SHREEMANT BURANAPUR
4	U15KM23S0032	DARSHAN GANAPATI KODLIKAR
5	U15KM23S0042	POOJA PRAKASH KOKATANUR
6	U15KM23S0044	BASAVARAJ BHAIKAVADAGI
7	U15KM23S0047	AKSHATA VITTAL HIREKOL
8	U15KM23S0051	AMBIKA KALLAPPA KAJURAGI
9	U15KM23S0057	SHAILASHREE GOPAL MADDEPPAGOL
10	U15KM23S0058	VISHWANATH MANJALKAR
11	U15KM23S0083	SHANKARALINGA SATAPPA KOBALA
12	U15KM23S0085	BHAGYASHREE KARAJOL
13	U15KM23S0099	VISHNU B K
14	U15KM23S0100	AMARNATH WALIKAR
15	U15KM23S0108	SAHIL S MULLAL
16	U15KM23S0117	RAJESH
17	U15KM23S0130	RAHUL TELI
18	U15KM23S0140	SHIVARUDRAYYA VASTRAD
19	U15KM23S0142	SHIVANANDA PARASHURAMA KALYANI
20	U15KM23S0144	KARTHIK L AWAJI
21	U15KM23S0145	AKSHATA ARAVIND KHAVEKAR
22	U15KM23S0147	CHANDANA TEGGI
23	U15KM23S0150	SHREYA SURAJ JADHAV
24	U15KM23S0155	PRAMOD HIREMATHA
25	U15KM23S0159	VAISHALI SALI
26	U15KM23S0160	MUTTURAJ M MAJJAGI


Prof. S. G. Joshi
 HEAD OF THE

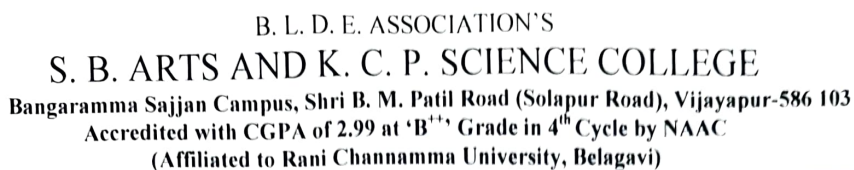
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Department of Computer Science

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ATTENDANCE OF THE STUDENTS

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Course Code: 23UGVACS01

ATTENDANCE OF THE STUDENTS

SL NO	UUCMS No.	Name of the Students	21/12	11/12	21/1	31/1	8/1	9/1	10/1	16/1	17/1	22/1
1	U15KM23S0004	PRATEEKSHA SHELAMKAR	9	10	11	12	12	13	14	15	16	17
2	U15KM23S0005	PRIYA VITHAL BENKI	9	10	11	12	13	14	15	16	17	17
3	U15KM23S0007	SHIVANAND BURANAPUR	10	11	12	13	13	13	14	15	16	17
4	U15KM23S0032	DARSHAN GANAPATI KODLIKAR	6	6	6	6	6	6	6	6	6	6
5	U15KM23S0042	POOJA PRAKASH KOKATANUR	11	12	13	13	14	15	16	17	18	19
6	U15KM23S0044	BASAVARAJ BHAIKAVADAGI	11	12	13	14	15	16	16	17	18	18
7	U15KM23S0047	AKSHATA VITTAL HIREKOL	10	11	12	13	13	14	15	15	16	16
8	U15KM23S0051	AMBIKA KALLAPPA KAJURAGI	10	11	12	13	14	15	16	17	18	19
9	U15KM23S0057	SHAILASHREE MADDEPPAGOL	10	11	12	13	14	15	16	17	18	19
10	U15KM23S0058	VISHWANATH MANJALKAR	9	10	11	12	13	14	14	15	16	16
11	U15KM23S0083	SHANKARALINGA KOBALA	10	11	12	13	14	15	16	17	18	19
12	U15KM23S0085	BHAGYASHREE KARAJOL	11	12	13	14	15	16	17	18	19	20
13	U15KM23S0099	VISHNU B K	10	11	12	13	14	15	16	17	18	19
14	U15KM23S0100	AMARNATH WALIKAR	9	10	11	12	13	14	15	16	16	17
15	U15KM23S0108	SAHIL S MULLAL	7	7	7	7	8	8	8	8	8	8
16	U15KM23S0117	RAJESH	4	4	4	4	4	4	4	4	4	4
17	U15KM23S0130	RAHUL TELI	10	11	12	13	14	15	16	17	18	19
18	U15KM23S0140	SHIVARUDRAYYA VASTRAD	10	11	12	13	14	15	15	16	16	16
19	U15KM23S0142	SHIVANANDA KALYANI	10	12	12	13	14	15	16	17	17	18
20	U15KM23S0144	KARTHIK L AWAJI	10	11	12	13	14	15	16	17	18	19
21	U15KM23S0145	AKSHATA ARAVIND KHAVEKAR	10	11	12	13	14	15	16	17	18	19
22	U15KM23S0147	CHANDANA TEGGI	8	9	10	11	12	13	13	14	15	16
23	U15KM23S0150	SHREYA SURAJ JADHAV	9	10	11	12	13	14	15	16	16	17
24	U15KM23S0155	PRAMOD HIEMATHA	10	11	12	13	14	15	16	17	18	19
25	U15KM23S0159	VAISHALI SALI	9	10	11	12	13	13	14	15	16	17
26	U15KM23S0160	MUTTURAJ M MAJJAGI	8	9	9	9	10	11	12	13	14	15
Signature of the Faculty												



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Department of Computer Science

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Course Code: 23UGVACS01

ATTENDANCE OF THE STUDENTS

SL NO	UUCMS No.	Name of the Students	23/1	24/1	25/1	26/1	27/1	28/1	29/1	30/1	31/1	1/2	2/2	3/2
1	U15KM23S0004	PRATEEKSHA SHELAMKAR	18	19	20	21	22	23	24	24	25	26		
2	U15KM23S0005	PRIYA VITHAL BENKI	18	19	20	21	22	23	24	25	26	27		
3	U15KM23S0007	SHIVANAND BURANAPUR	18	19	20	21	22	23	24	25	26	27		
4	U15KM23S0032	DARSHAN GANAPATI KODLIKAR	6	6	6	6	6	6	6	6	6	6		
5	U15KM23S0042	POOJA PRAKASH KOKATANUR	20	21	22	23	24	25	26	27	28	29		
6	U15KM23S0044	BASAVARAJ BHAIKAVADAGI	19	20	21	22	23	24	25	26	27	28		
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10	U15KM23S0058	VISHWANATH MANJALKAR	17	18	19	20	21	22	23	24	25	26		
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25	U15KM23S0159	VAISHALI SALI	18	19	20	21	22	23	24	25	26	27		
26	U15KM23S0160	MUTTURAJ M MAJJAGI	16	17	18	19	20	21	22	23	24	25		

Signature of the Faculty

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Date: 12/02/2024

Notice

Department of Computer Science
VALUE ADDED COURSE IN
"FUNDAMENTALS OF COMPUTER HARDWARE" - 2023-24

This notice is to remind all BSc I semester students who have enrolled for value added course that the department will hold an examination on the Value Added Course in "Fundamentals of Computer Hardware" on 14th February, 2024. Therefore, the students are informed to attend the examination at 9.00 a.m. in Room No. 10.


HOD
Prof. S. G. Joshi
HEAD OF THE
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Date : 14/02/2024

Department of Computer Science

VALUE ADDED COURSE IN "FUNDAMENTALS OF COMPUTER HARDWARE" - 2023-24
 Course Code: 23UGVACSO1

LIST OF THE STUDENTS ATTENDANCE FOR EXAMINATION

SL NO	UUCMS No.	Name of the Students	Signature
1	U15KM23S0004	PRATEEKSHA SHELAMKAR	
2	U15KM23S0005	PRIYA VITHAL BENKI	
3	U15KM23S0007	SHIVANAND SHREEMANT BURANAPUR	S. V. H
4	U15KM23S0032	DARSHAN GANAPATI KODLIKAR	AB
5	U15KM23S0042	POOJA PRAKASH KOKATANUR	
6	U15KM23S0044	BASAVARAJ BHAIKAVADAGI	
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12	U15KM23S0085	BHAGYASHREE KARAJOL	
13	U15KM23S0099	VISHNU B K	
14	U15KM23S0100	AMARNATH WALIKAR	
15	U15KM23S0108	SAHIL S MULLAL	AB
16	U15KM23S0117	RAJESH	AB
17	U15KM23S0130	RAHUL TELI	
18	U15KM23S0140	SHIVARUDRAYYA VASTRAD	
19	U15KM23S0142	SHIVANANDA KALYANI	
20	U15KM23S0144	KARTHIK L AWAJI	
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24	U15KM23S0155	PRAMOD HIREMATHA	
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Prof. S. G. Joshi

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IQAC, Co-ordinator

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Principal,

S.B.Arts & K.C.P. Sc. College,
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Date : 16/02/2024

Department of Computer Science
VALUE ADDED COURSE IN "FUNDAMENTALS OF COMPUTER HARDWARE" - 2023-24
Course Code : 23UGVACSO1

RESULT SHEET

SL NO	Student ID	Name of the Students	Marks for Theory Out of 30	Marks for Practical Out of 20	Total Marks (Out of 50)	Result
1	U15KM23S0004	PRATEEKSHA SHELAMKAR	28	18	46	A+
2	U15KM23S0005	PRIYA VITHAL BENKI	25	18	43	A
3	U15KM23S0007	SHIVANAND SHREEMANT BURANAPUR	27	20	47	A+
4	U15KM23S0032	DARSHAN KODLIKAR	AB	AB	0	AB
5	U15KM23S0042	POOJA PRAKASH KOKATANUR	25	19	44	A
6	U15KM23S0044	BASAVARAJ BHAIRAVADAGI	27	19	46	A+
7	U15KM23S0047	AKSHATA VITTAL HIREKOL	28	20	48	A+
8	U15KM23S0051	AMBIKA KALLAPPA KAJURAGI	29	20	49	A+
9	U15KM23S0057	SHAILASHREE MADDEPPAGOL	26	19	45	A+
10	U15KM23S0058	VISHWANATH MANJALKAR	29	19	48	A+
11	U15KM23S0083	SHANKARALINGA KOBALA	18	15	33	B+
12	U15KM23S0085	BHAGYASHREE KARAJOL	30	19	49	A+
13	U15KM23S0099	VISHNU B K	30	20	50	A+
14	U15KM23S0100	AMARNATH WALIKAR	28	20	48	A+
15	U15KM23S0108	SAHIL S MULLAL	AB	AB	0	AB
16	U15KM23S0117	RAJESH	AB	AB	0	AB
17	U15KM23S0130	RAHUL TELI	25	17	42	A
18	U15KM23S0140	SHIVARUDRAYYA VASTRAD	30	20	50	A+
19	U15KM23S0142	SHIVANANDA KALYANI	26	18	44	A
20	U15KM23S0144	KARTHIK L AWAJI	26	20	46	A+

SL NO	Student ID	Name of the Students	Marks for Theory Out of 30	Marks for Practical Out of 20	Total Marks (Out of 50)	Result
21	U15KM23S0145	AKSHATA KHAVEKAR	28	18	46	A+
22	U15KM23S0147	CHANDANA TEGGI	29	18	46	A+
23	U15KM23S0150	SHREYA SURAJ JADHAV	30	19	47	A+
24	U15KM23S0155	PRAMOD HIREMATHA	29	20	49	A
25	U15KM23S0159	VAISHALI SALI	29	19	49	A+
26	U15KM23S0160	MUTTURAJ M MAJJAGI	24	18	48	A+

GRADES

- Total Marks $\geq 45 \rightarrow A+$
- $45 < \text{Total Marks} \geq 35 \rightarrow A$
- $35 < \text{Total Marks} \geq 20 \rightarrow B+$
- $20 < \text{Total Marks} \geq 10 \rightarrow B$


Prof. S. G. Joshi
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Department of Computer Science

REPORT ON VALUE ADDED COURSE

"FUNDAMENTALS OF COMPUTER HARDWARE" 2023-24

Course Code: 23UGVACS01

The value-added course on "**Fundamentals of Computer Hardware**" was organized to enhance students' knowledge and skills in computer hardware, complementing their academic curriculum. The course aimed at providing practical and theoretical insights into the components, assembly, and troubleshooting of computer hardware, which are essential for students aspire to excel in the IT and computer engineering fields.

The department has been conducted value added course on "**Fundamental of Computer Hardware**" for BSc I Sem. students. Totally 55 students have got registered for this course. We have conducted theory along with practicals so that they could get thorough knowledge.

Course Outcome:

After completion of this course, students will able to :

- ✓ Comprehensive Knowledge of Hardware Components
- ✓ Practical Skills in Assembling and Disassembling Computers
- ✓ Troubleshooting and Maintenance Proficiency
- ✓ Familiarity with Input/Output Devices:Enhanced Technical Communication.


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BLDEA' SB Arts and KCP Science College, Vijayapur
Department of Computer Science
VALUE ADDED COURSE ON
"FUNDAMENTALS OF COMPUTER HARDWARE" 2023-24
Question Paper

Course Code: 23UGVACSO1

Time : 1 hr.

Max. Marks : 30

1. A Computer cannot 'BOOT' if it does not have the _____
a) Compiler b) Loader c) Operating System d) Assembler
2. A Compiler is
a) A combination of computer hardware
b) A program which translates from one high-level language to another
c) A program which translates from one high-level language to a machine d) None of these
3. What does USB stands for?
a) Universal Signal Board b) Universal Signal Bus
c) Universal Serial Bus d) Universal Serial Bus
4. Network is used for _____ Purpose
a) Access to remote control b) Access to remote database c) Both a & b
d) None of the above
5. To open your email account you should first click on the following
a) create account b) Sign up acc c) Sign in button d) Drop down button
6. CD-ROM stands for
a) Compactable Read Only Memory b) Compact Data Read Only Memory
c) Compactable Disk Read Only Memory d) Compact Disk Read Only Memory
7. MICR stands for
a) Magnetic Ink Character Reader b) Magnetic Ink Code Reader c) Magnetic Ink Cases Reader d) None
8. Which of the following is a storage device?
a) Tape b) Hard Disk c) Floppy Disk d) All of the above
9. What is a light pen?
a) Mechanical Input device b) Optical input device c) Electronic input device d) Optical output device
10. Which of the following is first generation of computer?
a) EDSAC b) IBM-1401 c) CDC-1604 d) ICL- 2900
11. DOS stands for
a) Disk Operating System b) Disk operating session c) Digital Operating System d) Digital Open system
12. _____ translates and executes program at run time line by line
a) Compiler b) Interpreter c) Linker d) Loader

13. All of following are non-volatile memory except
a) ROM b) PROM c) flash memory d) RAM
14. _____ is computer software designed to operate the computer hardware and to provide platform for running application software
a) Application software b) System software c) Software d) Operating system
15. To close viewing your email click on the following
a) login b) Logout c) sign in d) Sign up
16. For opening a pdf attachment software which software will you use
a) MS-Excel b) MS Access c) MS Word d) Acrobat Reader
17. The Process of sending and receiving text through network is called _____
a) Electronic mail b) Tele Printing c) On-Line Data base d) Telecom Forcing
18. Which of the following is not the network type _____
a) LAN b) WAN c) MAN d) VAN
19. Communication network which is used by large organization over regional national or global area is called _____
a) LAN b) WAN c) MAN c) None of the above
20. Who is the father of Computer?
a) Allen Turing b) Charles Babbage c) Simur Cray d) Augusta Adaming
21. Fourth Generation computers were based on _____
a) Ic b) Vacuum tube c) transistor d) Microprocessors
22. Monochrome Monitor means _____
a) Black Monitor b) White Monitor c) Colour Monitor d) Black and White Monitor
23. Abacus is -----
a) a computing Device b) Store Device c) Output Device d) Input Device
24. The use of Transistors was introduced in _____ Generation Computers
a) First b) Second c) Third d) Fourth.
25. Caps Lock key is an example for -----
a) Special key b) Toggle Keys c) Function Keys d) Alphanumeric Keys.
26. LCD stands for _____
a) Light Color Display b) Liquid Cool Display c) Low Crystal Display d) Liquid Crystal Display
27. Number of arrow keys is _____
a) 6 b) 4 c) 3 d) 2
28. Which is not an input device?
a) OCR b) Scanner c) Speaker d) MICR
29. Which of the following is not Hardware?
a) CPU b) Compiler c) Memory d) Chip
30. Total number of Function keys
a) 12 b) 11 c) 13 d) 10

BLDEA's
S.B. Arts and K.C.P. Science College, Vijayapur
Department of Computer Science
VALUE ADDED COURSE ON
"FUNDAMENTALS OF COMPUTER HARDWARE"
Course Code: 23UGVACSO1
2023-24

30
30

Name: Vishnu B. K

Class : I Sem.

UUCMS No: WISKM23S0099

Date: 14/2/2024

Time: 1 Hour

Max. Marks: 30

Choose the correct answer and darken the bobble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR answer sheet.

SL NO	A	B	C	D	SL NO	A	B	C	D
1	☐	☐	☒	☐	21	☐	☐	☐	☒
2	☐	☐	☒	☐	22	☐	☐	☐	☒
3	☐	☐	☒	☐	23	☒	☐	☐	☐
4	☐	☐	☒	☐	24	☐	☒	☐	☐
5	☐	☐	☒	☐	25	☒	☐	☐	☐
6	☐	☐	☐	☒	26	☐	☐	☐	☒
7	☒	☐	☐	☐	27	☐	☐	☒	☐
8	☐	☐	☐	☒	28	☐	☐	☒	☐
9	☐	☒	☐	☐	29	☐	☒	☐	☐
10	☐	☒	☐	☐	30	☒	☐	☐	☐
11	☒	☐	☐	☐					
12	☐	☒	☐	☐					
13	☐	☐	☐	☒					
14	☐	☐	☐	☒					
15	☐	☒	☐	☐					
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17	☐	☒	☐	☐					
18	☐	☐	☐	☒					
19	☐	☒	☐	☐					
20	☐	☒	☐	☐					