

Computer Science

PR – XI (A-I-A) (26)

۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں۔ صرف صحیح جواب والا دائرہ بھر دیں۔

۲۔ دائروں کو شیڈ (بھرنے) کے لیے نیلے یا کالے رنگ کا پن استعمال کریں۔

۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہو گا۔

Time: 20 Min

SECTION-A

Marks: 15

- 1) The component of a computer that instructs the computer what to do and how to do is _____.
☒ Software ☐ Hardware ☐ Processor ☐ Memory
- 2) Using simulation software of J-10 C fighter Jet to train the young pilots falls in _____ category.
☒ CBT ☐ CBL ☐ Encyclopedia ☐ Communication
- 3) Connecting a digital camera to a computer, you need to install.
☐ Utility software ☐ Firmware
☐ Malware ☒ Device driver
- 4) MICR stands for _____ Recognition.
☒ Magnetic Ink Character ☐ Magnetized Ink Character
☐ Magnetic Input character ☐ Memory Ink character
- 5) Two printers. Printer A with 300 dots per inch (DPI) and Printer B with 1200 (DPI), which one has the better printing quality?
☐ Printer A ☒ Printer B
☐ Both have same quality ☐ DPI has no effect on quality
- 6) Flash memory is an example of _____.
☐ EPROM ☐ PROM ☒ EEPROM ☐ RAM
- 7) When CPU adds two numbers, 04 and 03 produces 07, in which register is this result stored?
☒ AX ☐ BX ☐ CX ☐ DX
- 8) To connect an Internet cable to a computer, which connector is used?
☐ BNC ☐ RJ-12 ☒ RJ-45 ☐ SC

- 9) At ____ layer of OSI model, the data is divided into Segments.
☒ Transport ☐ Network ☐ Data link ☐ Physical
- 10) ____ Layer of the OSI model enables the data to travel on the communication medium.
☐ Transport ☐ Network ☐ Data link ☒ Physical
- 11) Internet was built on the foundation of ____ network project.
☐ IGPR ☒ ARPA Net ☐ ARP ☐ IGMP
- 12) Finding the network address from the Host IP address ____ is used.
☒ Subnet mask ☐ Firewall ☐ Router ☐ Gateway
- 13) Line of sight communication is required for ____ wireless technology.
☐ Radio ☐ Wi-max ☐ Wi-Fi ☒ Infrared
- 14) The binary data (0's and 1's) is stored on CDs in the form of:
☐ 0's & 1's ☐ 0 V & 5 V ☒ Bumps (pits) & Lands
☐ Off & On
- 15) The IP-V4 address is of ____ bits.
☐ 28 ☒ 32 ☐ 64 ☐ 128

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Note: Time allowed for Section-B and Section-C is 2 Hours and 40 minutes.

SECTION-B

Q2: Answer any TEN parts. Each part carries FOUR marks.

1. Write note on Micro Computers. Name four examples of Micro Computers.
2. What is Language processor? Why they are important? Briefly discuss its any two types.
3. Discuss Random Access Memory and its types. SRAM and DRAM.
4. Write a brief note on cache memory highlighting its levels and importance.

5. Write note on Base Register.
6. List down four features of the RISC architecture.
7. Write note on Gateway. At which layer of the OSI does it operate?
8. Write down the functionalities that are performed at Session Layer.
9. Compare Circuit switching and Packet switching.
10. Write note on WIMAX. Which standard is used?
11. Define Modality and Curiosity. Give appropriate example of each.
12. Write note on MAR Register.
13. Write a note on RDBMS.

SECTION-C

Note: Attempt any THREE questions. All questions carry equal marks.

- Q3 (a) Discuss the System Software and Application Software.
(b) Discuss the three types of System Software, i.e. Operating System Device driver and Utility Software.
- Q4 (a) Write note on Instruction Cycle. Discuss the four stages followed to execute an instruction.
(b) Write note on Synchronous and Asynchronous of Communication.
- Q5 Discuss the Architecture of OSI Reference Model. What are functionalities performed at each layer.
- Q6 Define Network topology. Explain the structure of four different network topologies with the help of proper diagram.