

Computer Science

PR – XI (A-I-B4) (25)

- 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 ہوگا۔

Time: 20 Min

SECTION-A

Marks: 15

- 1) The computer that used electromagnetic signals to move mechanical parts to solve arithmetic equations was:
☐ EDVAC ☒ UNIVAC ☐ Mark-I ☐ Z3
- 2) If an operating system does not detect any hardware, then we have to install its:
☐ Utility ☐ OS ☒ Driver ☐ Disk cleaner
- 3) 500 Gigabytes hard disk can store data of:
☐ 5 billion bytes ☐ 50 billion bytes
☒ 500 billion bytes ☐ 5000 billion bytes
- 4) "How much information can be processed by CPU at once" can be determined by:
☒ RAM's size ☐ Register's size
☐ ROM's size ☐ Cache's size
- 5) For directing the data to the output device, CPU uses:
☐ Register ☐ Cache ☐ ALU ☒ CU
- 6) In an instruction "action of the processor" is represented by:
☐ ALU ☐ Operand ☐ CU ☒ Op-code
- 7) To enable or disable any system unit's component we use:
☒ BIOS ☐ System Bus
☐ Operating System ☐ CMOS
- 8) In a 25-Pins parallel port, how many pins are used to transfer information/data?
☒ 8 ☐ 12 ☐ 17 ☐ 24
- 9) Optical Fiber cable, coaxial cable and twisted pair cable are the

examples of what?

☐ Sender ☐ Receiver ☒ Medium ☐ Protocol

10) The signals are confined along a narrow path in:

☐ Unguided media ☒ Guided media

☐ Wireless media ☐ WiFi

11) The layer of OSI model that decided whether the bits will be transmitted as digital or analog signal is:

☐ Network layer ☐ Session layer

☐ Data Link Layer ☒ Physical Layer

12) One of the given is the electromagnetic wave:

☒ Radio ☐ Ethernet ☐ Infrared ☐ Light wave

13) A collection of related fields treated as a single unit/group is called:

☐ Field ☐ Attribute ☐ Column ☒ Record

14) All of the given are relational DBMS, except:

☐ MS Access ☒ MS Excel

☐ Open Office Base ☐ SQL Server

15) The maximum size of Date/Time field in Access is:

☐ 2 ☐ 4 ☐ 6 ☒ 8

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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.

- i) What are notebook computers? Why students prefer notebook computers give four reasons.
- ii) Describe eight features of RAM.
- iii) What do you know about tracks and sectors in the hard disk? Write two key points for each.

- iv) Describe functions of program counter in CPU.
- v) What is motherboard? Describe the importance of motherboard in computer system.
- vi) Describe any four functions of memory slots.
- vii) How the sender and receiver behave when they send or receive data?
- viii) List down any four features of Radio signals.
- ix) Define WiFi. Write down at-least three different uses of WiFi.
- x) What is database? List down any 6 DBMS that are typically used nowadays.
- xi) Following are the advantages of DBMS describe them.
 - (a) Minimum data redundancy
 - (b) Flexibility
- xii) If two tables are related with each other write down the steps to insert new record in a related table.
- xiii) What is data modeling?

SECTION-C

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

- QIII Describe any four features for each of the following:
 - (a) Productivity Software
 - (b) Open Sources Software
- QIV Explain the following CPU instructions.
 - (a) STO
 - (b) XOR
 - (c) ADD
 - (d) SUB
- QV Describe the structure, bandwidth and usage of coaxial cable, twisted pair cable and optical fiber cable.
- QVI What is a relationship and degrees of relationship in ERD? Explain the degree of relationship with the help of diagram.