

KT-XI-1601
COMPUTER SCIENCE
(Part – I)
(NEW COURSE)

Sig. of Supdt.

Roll No.

Fig. #

Fig. #

Total Marks: 75

COMPUTER SCIENCE
(Part – I)
(NEW COURSE)

Time Allowed : 3 Hrs.

Marks: 15

Section "A"

Time : 20 Mins.

NOTE : Section-A is compulsory. All parts of this section to be answered on the questions paper itself. It should be completed in the given time and handed over to the Centre Superintendent. Deleting / Overwriting is not allowed. Do not use lead pencil.

NOTE : Insert the correct option (a, b, c, d) in the empty box opposite to each part.

Q. 1 Insert the correct option (a, b, c, d) in the empty box opposite to each part. Each part carries one mark.

- i) Which of the following is to be considered to be the first computer?
- (a) Tabulating machine (b) Difference engine (c) ABACUS (d) None of these
- ii) The software that translate high level language program line by line is
- (a) Compiler (b) Interpreter (c) Assembler (d) None of these
- iii) The distance between the pixels on the monitor is called
- (a) Dot pitch (b) Resolution (c) Size (d) None of these
- iv) Which of the following is volatile memory?
- (a) Rom (b) Ram (c) Prom (d) Processor
- v) A one mega byte memory is equal to
- (a) 1024 K Bytes (b) 1000 K Bytes (c) 1024 K Bits (d) 1000 K Bits
- vi) Which of the following is sequential access storage device?
- (a) Zip Disk (b) Magnetic tape (c) Magnetic disk (d) None of these
- vii) Which of the following performs the arithmetic and logic operations in data?
- (a) Control unit (b) Memory unit (c) ALU (d) None of these
- viii) The smallest amount of memory located between main memory and processor ;
- (a) Cache (b) Ram (c) Buffer (d) None of these
- ix) Which of the following is firmware built into the computer system?
- (a) Port (b) Slot (c) Bios (d) Graphics
- x) The new technology cable use to connecting storage drives to computer is ;
- (a) FD (b) SATA (c) IDE (d) None of these
- xi) The data or information that is a to be communicated over the network is ;
- (a) Message (b) Medium (c) Media (d) Processor
- xii) The mode in which both station can send and receive the data simultaneously is ;
- (a) Full duplex (b) Half duplex (c) Duplex (d) None of these
- xiii) In which type of transmission data is transmitted one byte at a time ;
- (a) Synchronous (b) Asynchronous (c) Simplex (d) None of these
- xiv) Which of the following is the first markup language standard for wireless devices?
- (a) WML (b) HTML (c) WAP (d) WWW
- xv) The unique key field in a table is called ;
- (a) Foreign key (b) Primary key (c) Secondary key (d) Arrow key

KT-XI-1601 **204**
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Total Marks : 60

Time Allowed : 2:40 Hrs.

Section – B

Marks : 40

Q. 2 Write short answers of any **TEN** of the following parts. Each part carries equal marks.

- (i) Define processing operations.
- (ii) State five difference between hardware and software.
- (iii) Differentiate between interpreter and compiler.
- (iv) Differentiate between shareware and freeware.
- (v) Define bit, byte and memory word.
- (vi) Define role or registers in computer.
- (vii) What is a cache memory?
- (viii) What is the function of control unit in the computer?
- (ix) Differentiate between CISC and RISC processor architecture.
- (x) Define role of BIOS in the computer system.
- (xi) Differentiate between slot and spot.
- (xii) What is meant by an IP addressing?
- (xiii) What is hotspot?

Section – C

Marks : 20

NOTE : Attempt any **TWO** questions. Each question carries equal marks.

Q. 3 What are computing devices? Explain early and modern computing devices.

Q. 4 What is a bus? Explain different types of buses in computer.

Q. 5 Write short notes on any two of the following.

- (a) Web Protocol Stack
- (b) Guided and unguided media
- (c) DBMS and Database