BACHELOR OF COMPUTER APPLICATION
First Semester
Name of the paper: **Fundamental of Computers & IT**
Paper Code: BCA-02

Duration: 3 Hrs   Full Marks: 70

(Part-B: Descriptive)

Duration: 2hr 40 minutes   **Marks: 50**

1. Answer the following questions (any *five*):   **2×5 = 10**

a) Define scanner. What are the 2 major types of scanner.

b) How does a digital camera takes video or photo?

c) What is the speed and print quality of inkjet printer?

d) What is a plotter? What are 2 types of plotter?

e) Give any 4 examples of Optical disk.

f) Define Serial communication.

g) Define Parallel communication.

2. Answer the following questions (any *five*):   **3×5 = 15**

a) Draw the Tree topology of LAN

b) Why is a Floppy disk drive (FDD) called so? What is the data transfer rate of FDD?

c) Write the disadvantages of DRAM.

d) What are the special character keys in a keyboard?

e) Draw a 3-bit register

f) Explain ADC.

g) Write the disadvantages of Tree Topology

3. Write short notes on (any *five*): 5×5 = 25

a) Trackball   b) Inkjet Printer   c) HDD   d) Pen Drive   e) LAN

f) Optical disk   g) Internet

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Duration: 20 minutes   Marks - 20

(PART-A: OBJECTIVE)

(All questions carry equal marks)

Choose the correct answer   1× 20=20

1. The computer directly understands
a) Binary language   b) High level language   c) Assembly language   d) None of these

2. What CPU component did 2nd generation computer use
a) Transistor   b) microprocessor   c) Vacuum tube   d) IC

3. Which of the following is a 5th generation language
a)FORTRAN   b) COBOL   c) Pascal   d) Java

4. QWERTY is a type of
a) mouse   b) keyboard   c) monitor   d) printer

5.What is the speed of dot matrix printer
a) 100 char/sec   b) 500 char/sec   c) 10 pages/min   d) 20 pages /min

6. Central controller is present in which topology
a) star   b) ring   c) common bus   d) tree

7. DRAM contains
a) Tansistor b) Capacitor c) Hygrometer   d) Flip flop

8. SRAM is built using
a) Capacitor   b) Flip flop   c)Tapes   d) Bus

9. Hard disk drives are storage device in which generation computer
a) 1st b) 2nd c) 4th d) 5th

10. Flash memory is a type of
a) RAM   b) ROM   c) EPROM   d) PROM

11. Length of a word is expressed as
a)bytes/word   b)bits/word   c) bits/line   d) bytes/line

12. An optical mouse contains
a) LED   b)LCD   c) Flip flop   d) capacitor

13. Which among the following is smallest in size
a) Workstation   b) PC   c) Palmtop   d) Notebook PC

14. MDR means
a) Memory Data Register   b) Main data register   c) Memory data read   d) None of these

15. SRAM means
a) Static RAM   b) Single RAM   c) Storage RAM   d) Synchronous RAM

16. Flash Memory is a type of
a) SRAM   b) DRAM   c) EPROM   d) RAM

17. Internet is an example of
a) LAN   b) WAN   c)MAN   d) none of these

18. What is the speed of Inkjet printer
a)100 char/sec   b) 10 pages/min   c) 50 char/min   d) 4000 char/sec

19. Concept of client & server is mostly used in
a) LAN   b) Internet   c) MAN   d) None of these

20. VDU means
a) Video display unit b) Video dependent unit c) Visual display unit   d) None of these

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