OD–23002

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B.C.A. Ist Semester Examination, 2023-24

FUNDAMENTAL OF COMPUTERS

Paper : BC–102

Time : 2 Hours]   [Max. Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

Q. 1. (a) Define Computer. Also explain the various features of computer system.

   (b) Explain in detail the history of computer; also explain the evolution process of it.

Q. 2. Convert the following Numbers :

   (a) $(10101)_2 = (?)_{10}$ ۱۲۱

   (b) $(1110001)_2 = (?)_{10}$

   (c) $(62)_8 = (?)_{10}$ ۵۲۷۲۸

   (d) $(2085)_8 = (?)_{10}$ ۴۰۴۵

   (c) $(ICE)_{16} = (?)_{10}$

   (f) $(2AF)_{16} = (?)_{10}$ ۱۷۵۸۹۴

Q. 3. (a) Differentiate between the characteristic of primary and secondary memory of computer.

(1)   P.T.O.

   (b) Differentiate between High level, Machine & Assembly level language.

Q. 3. (a) What is Cache Memory ? How it reduce the mismatch of processor and main memory speed?

   (b) What is input-output Device ? Explain the role of input-output device in computer system.

Q. 4. (a) Compare between LAN, MAN & WAN network.

   (b) Write short note on the followingn :

      (a) DNS

      (b) ISP(internet service provider)

      (c) Web Search engine

      (d) Firewall

Q. 5. (a) Discuss storage devices and media with example.

   (b) What is the difference between application software and system software ?

Q. 6. (a) What are the various symbols used in flowchart ? Draw their pictorial representation.

P–300   (2)

(b) Define the software. List and explain the types of software. Give two example of each category.

Q 7. Write short notes on the following :

(a) ALU and CU

(b) TCP/IP

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