

**BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)**

**B.C.A. Sem-I :SUMMER- 2022**

**SUBJECT : FUNDAMENTALS OF INFORMATION TECHNOLOGY**

Day : Monday

Time : 02:00 PM-05:00 PM

Date : 6/6/2022

**S-18751-2022**

Max. Marks : 60

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**N.B.:**

- 1) Q. 4 from section I is COMPULSORY.
  - 2) Solve ANY TWO from Q. 1 to Q. 3 in Section I.
  - 3) Solve ANY TWO from Q. 5 to Q. 7 in Section II.
  - 4) All questions CARRY EQUAL marks.
  - 5) Answer to Both sections should be written in SAME answer book.
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**SECTION - I**

Q.1) Answer the following: (6 Marks X 2 = 12)

- a) Explain detail features of third generation and fourth generations of computers.
- b) What is Gates? Explain with proper example AND & OR gates.

Q.2) Answer the following: (6 Marks X 2 = 12)

- a) What is inputting? Explain in detail pointing devices as an input devices.
- b) What is purpose of main memory in a computer? Explain with proper example.

Q.3) Answer the following: (12 Marks X 1 = 12)

What is operating system? Explain in detail functions of operating system.

Q.4) Write short notes on the following: Attempt ANY TWO (6 Marks X 2 = 12)

- a) Types of Computer
- b) Compiler
- c) Data storage hierarchy

**SECTION - II**

Q.5) Answer the following: (12 Marks X 1 = 12)

Convert the following

- 1)  $(1111010)_2 = (?)_{10}$
- 2)  $(C10B)_{16} = (?)_{10}$
- 3)  $(333)_8 = (?)_2$
- 4)  $(1480)_{10} = (?)_2$

Q.6) Answer the following: (12 Marks X 1 = 12)

Bharati Sahakari Bank has more than 50,000 account holders. One of the bank's major challenges was recognizing the need to stay current with account holders by providing an online application. With about 500000 transactions processed each year, Bharati bank needed an online application system to keep their account holders ahead of the pack. In 2002 the bank purchased an application software BMS. Since then the bank has become enthusiast for software and has utilized the solution to its fullest.

Using the BMS the bank can communicate status update to account holders besides providing them opportunities for online status of account, money transfer, bill payments, feedback and automated e-mail response system. With success of switching from paper based application to solely accepting online, the bank has seen the positive effect on number of new account holders and deposits.

Discuss on:

- i.) Discuss the role of application software in online transactions of bank.
- ii.) Have you ever done any online transaction with bank? Discuss your experience describing the pros and cons of online systems of bank.

Q.7) Answer the following: (12 Marks X 1 = 12)

Write an algorithm and draw a flowchart for display given 10 numbers in descending order.

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