

This question paper contains 4 printed pages.]

Your Roll No. ....

**661**

**B.Sc.(H)/B.Sc.(Prog.)/II Sem. A**  
**Paper – CSAT 201 – COMPUTER SCIENCE**  
**(Computational Skills)**  
**(Admission of 2010 and onwards)**

**Time : 3 Hours**

**Maximum Marks : 75**

*(Write your Roll No. on the top immediately on receipt of this question paper.)*

**Attempt all questions.**

1. Answer any **seven** parts :

- (a) Name the industry which is a primary user of MICR technology. **2**
- (b) Name the first Wide Area Network. **2**
- (c) Name the person who is considered father of modern digital computers. **2**
- (d) What is the contribution of Blaise Pascal in the history of computing ? **2**
- (e) Give full form of VLSI and HTML. **2**

- (f) An entrance examination provides an answer sheet where students mark their answers by darkening a small circle. Which input device would be used to scan such choices ? 2
- (g) What is meant by a byte ? 2
- (h) What is anonymous FTP used for ? 2
- (i). Find the complement of  $6_8$  (7's complement). 2

2. Answer any **two** of the following :

- (a) Identify any four characteristics which have established computer as a powerful and useful tool. 4
- (b) Differentiate between primary and secondary storage. 4
- (c) What are the functions of following registers ? (any **two**) 4
  - (i) Accumulator
  - (ii) Program Control
  - (iii) Memory Buffer Register.

- 3. (a) Convert the binary number 101101101 to any **two** of the following number systems : 6
  - (i) Decimal
  - (ii) Octal
  - (iii) Hexadecimal

- (b) Find decimal equivalent of the hexadecimal number 2B · C4. 4

**OR**

Find two's complement of  $(00111000)_2$ . use two's complement method to subtract  $(00111000)_2$  from  $(01011100)_2$ . using 2's complement method. 4

4. (a) What is a supercomputer ? List examples of any two supercomputing applications. 3
- (b) Name any two popular operating systems. 2
- (c) Differentiate between impact and non-impact printers. Also mention their advantages and disadvantages. 6

5. Write short notes on any **three** of the following :  $3 \times 4 = 12$

- (i) Vision Input System
- (ii) Touch Screen
- (iii) Laser Printer
- (iv) Drum Printer
- (v) Joystick
- (vi) Voice Reproduction System

6. (a) What is an algorithm ? What characteristic should a sequence of instructions possess in order to qualify as an algorithm ? 6
- (b) Write an algorithm to check if a number is even or odd. 4
7. (a) Enumerate any three uses of Internet. 6
- (b) Name any two computer codes. What is the need of having a Unicode ? 4
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