

This question paper contains 3 printed pages]

Roll No.

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S.No. of Question Paper : 655

Unique Paper Code : 234191

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Name of the Paper : Computational Skills (CSAT-101)

Name of the Course : B.Sc. (Hons.)/B.Sc. Maths. Sc./B.Sc. (Prog.)

Semester : I

Duration : 3 Hours

Maximum Marks : 75

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

Question No. 1 is compulsory. Attempt any five questions out of the remaining (Q. No. 2 to Q. No. 7)

Answer all parts of the question together.

Section A

(Compulsory)

1. (a) Name the hardware technology used in second and fourth generation computers. 2
- (b) What is the difference between data and information ? 2
- (c) List two main characteristic features of the internet. 2
- (d) What is android ? 2
- (e) Find the complement of $(64)_8$. 2

P.T.O.

- (f) What is operating system ? 2
- (g) What is main memory ? 2
- (h) What is a byte ? 2
- (i) Give full forms of EBCDIC, ASCII, HTTP and WWW 2
- (j) What is the difference between WAN and LAN ? 2
- (k) What are input/output devices ? 2
- (l) List any *three* multimedia applications. 3

Section B

- 2. (a) Write an algorithm that inputs any *five* numbers and finds the smallest of these *five* numbers. 5
- (b) Write an algorithm that inputs any *five* numbers and finds the average of these *five* numbers. 5
- 3. (a) Differentiate between animation and video with the help of examples. 5
- (b) Write a short note on multimedia. 5
- 4. (a) Name the input device which is likely to be used in : 5
 - (1) ATM
 - (2) Video game
 - (3) Smartphone

- (4) Supermarket
- (5) Metro stations.
- (b) Are laser printers preferred printing device than ink jet printers ? Why ? 5
5. (a) Perform the following conversions : 6
- (1) Convert $(9D)_{16}$ to decimal
- (2) Convert $(36.54)_8$ to decimal
- (3) Convert $(64)_{10}$ to BCD.
- (b) (1) Add the binary numbers 100100 and 010101
- (2) Subtract $(011100)_2$ from $(111100)_2$ 4
6. (a) What is FTP ? List the steps involved in uploading/downloading a file by using this service. 5
- (b) Name any *two* web browsers. Mention *four* facilities that browsers provided to help users save time while internet surfing. 5
7. (a) Define computer. Describe different components of a computer system. 5
- (b) What is a collating sequence ? A computer uses ASCII as its internal representation of characters. In which order will this computer sort the following strings ?
BOY, 2 day, DoN, SUB. 5