

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 845

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Your Roll No.....

Unique Paper Code : 234291

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

Name of the Paper : CSAT-201 (Computational Skills)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Section A is compulsory.
3. Attempt any 5 questions from Section B.

SECTION A

1. Answer the following :
 - (a) Name any one input device commonly used with ATMs. (1)
 - (b) In which component of CPU addition and comparison of data is performed. (1)
 - (c) What is operating system ? Name two key functions of operating system. (2)
 - (d) Convert $(5A1)_{16}$ to decimal. (2)
 - (e) $(1011111)_2 + (1110101)_2 = (?)_2$ (2)
 - (f) Differentiate between RAM and ROM. (2)
 - (g) How is a character stored in a computer ? (2)
 - (h) What are point-and- draw devices ? Give two examples. (2)
 - (i) Give 2's complement of $(11011111)_2$. (2)
 - (j) Differentiate between animation and video with suitable examples. (3)
 - (k) Distinguish between second and fourth generation computers. (3)
 - (l) Write the full form of ASCII, WWW, URL. (3)

P.T.O.

SECTION B

2. (a) What is a computer network ? Discuss the advantages of LAN over WAN. (5)
- (b) What is internet search engine ? Give two examples. (2)
- (c) Name any two social websites. List their key features. (3)
3. Differentiate between any **four** of the following :
- (i) Electronic mail and postal mail
- (ii) Monitor and Screen image projector
- (iii) OCR and OMR
- (iv) Data scanning devices and image scanning devices
- (v) Plotters and printers (2.5×4=10)
4. (a) What is multimedia ? Give any four applications of multimedia. (3)
- (b) Discuss briefly the Star and Ring network topologies. (3)
- (c) What is a collating sequence ? Give example. (2)
- (d) Describe any two storage devices. (2)
5. (a) Perform the following conversions
- (i) Convert $(745)_8$ to Hexa-decimal
- (ii) Convert $(165.64)_{10}$ to binary
- (iii) Convert $(B27)_{16}$ to decimal (2×3=6)
- (b) Perform the following operations
- (i) Add $(11011.01)_2$ and $(11101)_2$.
- (ii) Subtract 75 from 84 using 2's complement. (1+3)
6. (a) Define algorithm. Write an algorithm to find simple interest on a given amount. (6)
- (b) What is cache memory ? And how it is different from primary memory ? (4)
7. Write short notes on any **four** of the following :
- (i) Computer codes
- (ii) ALU
- (iii) CPU registers
- (iv) Web browsers
- (v) Computer virus (2½×4=10)