Diploma in Engg./Integrated B.Tech 1st Semester
Examination
Subject Fundamentals of Computer
Subject Code: CSL-001

Time Allowed: 03 hours. Maximum Marks: 100

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: Attempt any five questions and all questions carry equal marks.

Section – A

1. (a) Define the terms : Hardware and software. (2*4)
(b) Solve the following.
   i) 111111+00110011+000111
   ii) 010101+101010+000010 (6*2)

2. (a) Draw the block diagram of a computer system. Give brief discussion on its functional components. (10)
(b) Write short notes on any two of the following (2*5)
   (i) Keyboard
   (ii) A character printer
   (iii) VDU
   (iv) Connecters in a computer system

3 (a) Write down the formula to calculate the storage capacity of a magnetic disk with 500 cylinders, 400 tracks in each cylinder, 63 sectors in each track and 512 byte data in each sector. Also calculate the storage capacity of the same (8)
(b) What do you mean by input/output port? Give the details of a parallel printer port. (6)
(c) Write an explanatory note on device and I/O management (6)

Section – B

4 (a) What is an operating system? Give the steps of MS – DOS installation? (10)
(b) What is System and Software? Explain in detail and how they are co-related. (5)
(c) Explain five commands of MS-Excel. (5)

5 (a) Explain the three basic types of networks. (3)
(b) What is meant by topology of a network? Explain any two topologies in brief. (5)
(c) Explain client server architecture in detail with its block diagram. (12)

6 (a) what is Internet? Explain how it is different from WWW (5)
(b) Differentiate between E-mail and Ordinary mail. (5)
(c) Explain Request and Response protocol in detail with a block diagram? (10)