Your Roll No...............

Sr. No. of Question Paper : 5917   **G**

Unique Paper Code   : 62345501

Name of the Paper   : IT Fundamentals

Name of the Course   : **B.A. (P) / B.Com (P) / GE**

Semester   : V

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. Attempt **all** questions from **Section-A.**

3. Attempt any **five** questions from **Section-B.**

4. Attempt **all** parts of a question together.

SECTION A

1. (a) State the difference between digital and analog computers. (2)

   (b) Explain how cache memory plays an important in memory management. (3)

(c) Write short notes on the following :   (4)

    (i) Mainframe Computers

    (ii) Control Unit

    (iii) CPU Registers

    (iv) URL

(d) Explain the conceptualization of High-Level data model.   (3)

(e) Explain source data entry devices giving suitable examples.   (3)

(f) What are the different types of software? Explain them.   (3)

(g) Explain any three objectives of Operating System.   (3)

(h) Define the term 'instruction' in a computer program. Also, Explain its format.   (4)

SECTION B

2. (a) What is instruction cycle? Explain the steps involved in an instruction cycle.   (6)

(b) Explain the different kinds of ROM available.

(4)

3. (a) Explain the working of electronic mail with the help of a suitable diagram. (6)

(b) What is wireless networking? Explain its three categories? (4)

4. (a) Perform the following conversions : (6)

   (i) $(264)_{10}$ into octal number system

   (ii) $(A5D)_{16}$ into decimal number system

(b) Briefly explain any two optical input devices.

(4)

5. (a) What is a network topology? Explain different types of network topologies. (6)

(b) Explain four advantages of database management system. (4)

6. (a) Explain the input-output process. Give two examples each of input and output device. (6)

(b) Explain the classification of computers with the help of a diagram. (4)

7. (a) What is data transmission media? Explain any three media. (6)

(b) Explain the two ways in which storage devices can be accessed. (4)

8. (a) Define the term 'Internet'. Explain its architecture. (6)

(b) What do you understand by 'Internet Address'? Explain it briefly with the help of a suitable example. (4)