

This question paper contains 3 printed pages]

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S. No. of Question Paper : 62

Unique Paper Code : 234151 E

Name of the Paper : Computer Application : Computer Fundamentals

Name of the Course : B.A. (Programme)

Semester : I

Duration : 3 Hours

Maximum Marks : 45

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

Question paper has two parts.

Part I : Question No. 1 is compulsory.

Part II : Attempt any *three* questions.

Part I

1. (a) Write full form of the following :

2

(i) RAM

(ii) URL

(iii) PC

(iv) ALU

(b) Convert the following number into its binary equivalent :

1

$$(23.456)_{10} = (?)_2$$

P.T.O.

- (c) Describe the role of operating system in working of a standard computer. 2
- (d) What are the major differences between primary memory and secondary memory ? 2
- (e) What do you mean by world wide web ? 2
- (f) What is the use of Bluetooth Technology ? 2
- (g) Name *two* devices that can be used as both input as well as output device for a PC. 2
- (h) List any *two* storage devices that are attached to the computer. 2

Part II

2. (a) Explain the role of cache memory. 2
- (b) Explain the working of a page scanner. 4
- (c) Explain the working of Daisy wheel printer. 4
3. (a) Write a short note on Optical Memory. 3
- (b) What do you mean by sequential access ? 2
- (c) Perform the following conversions : 5
- (i) $(345)_8 = (?)_{16}$
- (ii) $(A75)_{16} = (?)_8$
- (iii) $(1100101)_2 = (?)_{16}$
- (iv) $(1010111)_2 = (?)_8$
- (v) $(B7E)_{16} = (?)_2$

4. (a) Explain the fetch-execute cycle of computer in detail. 4
- (b) What is a browser ? Give *two* examples. 3
- (c) What is the role of search engine ? Name *two* search engines. 3
5. (a) What is a system bus ? Explain various types of system bus. 4
- (b) Describe briefly the WAN transmission technology. 2
- (c) Describe the main features of a CD-ROM. 4
6. (a) What are various network topologies ? Explain any *two* of them in detail. 5
- (b) What is the use of Network Interface Card (NIC) ? 2
- (c) List any *three* system utility software present in a standard system. 3