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B.A. Prog./I   C

COMPUTER APPLICATIONS

Paper-CS-I—Computer Fundamentals

and Software Packages

(Admissions of 2004 and onward)

Time : 3 Hours   *Maximum Marks : 45*

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

All questions are compulsory.

1. (*a*) Explain the main characteristics of five generation of computers.   5

    (*b*) What do you understand by Data Compression ? Differentiate between lossy and lossless compression methods.   2

    (*c*) Explain any *two* applications of Multimedia.   1

P.T.O.

2. (a) Convert the following : 4

(i) $(678)_{10} = (??)_8$

(ii) $(734)_8 = (??)_{16}$

(iii) $(1110111)_2 = (??)_{10}$

(iv) $(591)_{10} = (??)_2$

(b) Describe the use of Address Bus and System Bus. 2

(c) What are ports and interfaces ? Explain any *three* types of ports. 2

3. (a) What do you understand by Magnetic Disk ? Explain any *two* types of Magnetic Disks. 2

(b) What is primary memory ? Give full form of SRAM and DRAM. Explain them briefly. 2

(c) Describe any *two* pointing devices. 2

(d) Differentiate between CRT and LCD. 2

4. (a) Describe *six* types of operating system commonly used in computer system. 3

 (b) What do you understand by virtual memory ? 2

 (c) What is deadlock ? How can it be avoided from the system ? 3

5. (a) What is system software ? Explain any *three* types of system software with suitable examples. 4

 (b) Write short notes on any *two* : 4

 (i) Logic bomb

 (ii) Cryptography

 (iii) Hackers and Crackers.

6. (a) Give full forms of : 3

 (i) ENIAC

 (ii) DVD

(*iii*) SMPS

(*iv*) DMA

(*v*) TB

(*vi*) MICR.

(b) Differentiate between sequential and random access

mode. 2