

7. (a) Explain *three* parameters use to measure the performance of a computer system. 6
- (b) What do you understand by ports and interfaces ? Explain any *three* types of ports. 4
8. Write short notes on the following terms (any *four*) : 10
- (i) Cloud computing
- (ii) Monitor
- (iii) Anti-virus
- (iv) BIOS
- (v) Data Mining.

19/12/17 E

This question paper contains 4 printed pages]

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

S. No. of Question Paper : 7935

Unique Paper Code : 62341101

HC

Name of the Paper : Computer Fundamentals

Name of the Course : B.A. (P) Computer Science

Semester : I

Duration : 3 Hours

Maximum Marks : 75

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

Question No. 1 is compulsory.

Attempt any *five* questions from Q. No. 2 to Q. No. 8.

Parts of a question must be answered together.

- I. (a) Define supercomputer. Give *two* examples of supercomputer. 3
- (b) Give full form of the following abbreviations : 3
- (i) PDA
- (ii) ASCII
- (iii) CMOS.

- (c) Define a bit and a byte. What are the *two* key factors that characterize the memory ? 4
- (d) Find 1's complement of the following numbers : 2  
 $(11000011.1101)_2$
- (e) Explain any *two* pointing devices with examples. 5
- (f) Describe Cache Memory. 3
- (g) Briefly explain e-library. 2
- (h) What is an operating system ? Name any *two*. 3
2. (a) Differentiate between Microcomputer and Minicomputer with examples. 4
- (b) Explain the main components of computer hardware with diagram. 6
3. (a) What is ROM ? Explain different types of ROM. 4
- (b) Explain the memory hierarchy with diagram. 6

4. (a) Give differences between the following : 6
- (i) Input unit and Output unit
- (ii) Dot matrix printers and Daisy wheel printers
- (iii) Hand-held scanners and flat-bed scanners.
- (b) Describe touch screen with its working. 4
5. Convert the following : 10
- (i)  $(47.25)_8$  to  $(?)_{10}$
- (ii)  $(675.125)_{10}$  to  $(?)_2$
- (iii)  $(473.28)_{10}$  to  $(?)_{16}$
- (iv)  $(AB.28)_{16}$  to  $(?)_{10}$
- (v)  $(1111.0011)_2$  to  $(?)_{10}$ .
6. Perform the binary operations : 10
- (i)  $(111011.1101)_2 + (111.11011)_2$
- (ii)  $(1110.1101)_2 - (1001.1111)_2$ .