

This question paper contains 3 printed pages]

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S. No. of Question Paper : 1954

Unique Paper Code : 62341101

GC-3

Name of the Paper : Computer Fundamentals

Name of the Course : B.A. (Prog.) Computer Science–CBCS

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 5 questions from Question 2 to Question 8.

Parts of a question must be answered together.

1. (a) What do you understand by computer program ? 2
- (b) Briefly explain two uses of the supercomputer. 2
- (c) What is the flash memory ? What are the features of flash memory ? 4
- (d) Briefly explain the two primary objectives of an operating system. 4
- (e) Explain data bus. 2
- (f) Give full form of the following abbreviations : 3
 - (i) FLOPS
 - (ii) PCB
 - (iii) CAD

P.T.O.

- (g) Convert the binary number 1001111011 into the following representations : 4
- (i) 1's complement
 - (ii) 2's complement.
- (h) What is application software ? Give *two* examples. 2
- (i) Explain any *one* input pointing device. 2
2. (a) Explain the input-process-output cycle. 4
- (b) Briefly explain the use of computers in Education, Advertising and Government sectors. 6
3. (a) What is motherboard ? Explain the booting process when the computer is switched on. 6
- (b) Explain different ways to access information from the storage device with example. 4
4. Convert the following : 10
- (i) $(114.325)_{10}$ to $(?)_8$
 - (ii) $(DCE.0C)_{16}$ to $(?)_2$
 - (iii) $(372.602)_8$ to $(?)_{10}$
 - (iv) $(1028.25)_{10}$ to $(?)_8$
 - (v) $(1011001.11)_2$ to $(?)_8$
5. (a) Give differences between the following with examples : 6
- (i) Audio input device and video input device
 - (ii) Hand-held scanners and flat-bed scanners
 - (iii) Hard copy devices and soft copy devices.
- (b) Explain any *two* different types of I/O ports. 4

6. Perform the following binary operation : 10
- (i) $(10110000.011)_2 - (100010.101)_2$
- (ii) $(1110011.101)_2 + (1100011.001)_2$
7. (a) What is an operating system and how does operating system perform memory management in a system ? 6
- (b) Differentiate between Disk partitioning and Disk compression. 4
8. Write short notes on the following terms (any *four*) : 10
- (i) Big data
- (ii) System clock
- (iii) Throughput
- (iv) Google'scholar
- (v) CMOS chip