

13.12.18(E)

This question paper contains 4 printed pages]

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S. No. of Question Paper : 1266

Unique Paper Code : 62341101 I

Name of the Paper : Computer Fundamentals

Name of the Course : B.A. (Prog.) : Computer Applications

Semester : I

Duration : 3 Hours

Maximum Marks : 75

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

Section A is compulsory.

Attempt any five questions from Section B.

Section A

1. (a) List *three* main components of computer hardware. 3
- (b) Give full form of the following : CD-ROM, USB, EEPROM, and ATM. 2
- (c) Give *two* differences between Dumb Terminal and Intelligent Terminal. 2
- (d) Name *three* Pointing Devices. 3
- (e) Give the valid digits in the following number systems :
Decimal, Octal, Hexadecimal. 3

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- (f) Give *two* examples of system software. 2
- (g) Give *two* differences between Pointing devices and Pick devices. 2
- (h) List *three* significant limitations of the computer. 3
- (i) Write a short note on Antivirus Utility. 2
- (j) Convert 147 from Base 10 to Base 2 and Base 8. 3

Section B

2. (a) Explain main functions of CPU. Draw block diagram of CPU to show its different parts. 5
- (b) Highlight the differences between microcomputer, minicomputer, mainframe computer and super computer. 5
3. (a) Convert the binary number 1100110011 into Octal number and Hexadecimal number. 4
- (b) Perform the following Binary Operations : 6
- (i) $(1001) + (1111)$
- (ii) $(1111) - (1001)$
- (iii) $(10111) + (11000)$

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4. (a) Give differences between the following : 6
- (i) Ink-jet printers and Laser printers
- (ii) System software and Application Software
- (iii) SRAM and DRAM
- (b) Write *four* key functions of Operating System. 4
5. (a) What are utility programs ? Explain Data Backup Utility. 4
- (b) Give *two* features of each : Joystick, Scanner, and Touch Screen 6
6. (a) Explain the need of Cache Memory and state *three* important features of Cache memory. 4
- (b) Define the following : 6
- (i) POST
- (ii) Registers
- (iii) Input-Process-Output
7. (a) Explain how computer is useful in the areas of Entertainment, Education and Advertising. 6
- (b) Show the hierarchy of different memory types with the help of diagram. 4

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8. Write short notes on the following :

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- (i) Bluetooth
- (ii) Bigdata
- (iii) Cloud computing
- (iv) Mobile computing
- (v) Embedded system