

Roll No.
1000 -/-/30/40

DN-162

January 2020
Post Graduate Diploma in Computer Applications (PGDCA) Examination

Ist Semester
FUNDAMENTALS OF COMPUTER

Time 3 Hours]

[Max. Marks 100

Note : Attempt any two parts from each question. Each question carries equal marks.

1. (a) Explain four number system with example.
(b) What is use of code system ? Explain BCD and Access-3 coding system with example.
(c) Perform following conversions :
 - (i) $(001111011011)_2 = (\quad)_{16}$
 - (ii) $(12.2)_8 = (\quad)_{10}$
 - (iii) $(25)_8 = (\quad)_2$
 - (iv) $(15)_{16} = (\quad)_2$.
2. (a) Draw the block diagram of computer. Explain its components.
(b) What is Read only memory ? Explain its different types with uses.
(c) Explain Hard Disk and Optical CD Secondary Memory.
3. (a) Describe evolution and development of computer system.
(b) What is Bus ? Explain three types of buses.
(c) What is RAID ? What is advantages of using it ? What are different types of RAIDS ? Explain briefly.
4. (a) Explain five input devices in detail with their use.
(b) When anyone want to buy monitor what characteristics be should take into consideration ? Write importance and effect of each characteristics.
(c) Explain the functions of CU (Control Unit) and ALU in the CPU of Computer.
5. (a) What is Software ? Explain Application Software. Give five examples of Application software.
(b) What is computer language ? What are its types ? Explain in detail.
(c) Explain compiler, interpreter and assembler in computer.

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