

AE-1331

PGDCA (New Course)
Term End Examination, 2016-17

FUNDAMENTALS OF COMPUTER AND INFORMATION TECHNOLOGY

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 40

Note : Question No. 1 is compulsory. Answer any **five** questions from Question Nos. 2 to 7. The figures in the right-hand margin indicate marks.

1. Answer **all** questions : 3×10
- (a) $1101 - 1010 = ?$
- (b) 2's complement of 23.
- (c) $(101010)_2 = (?)_{16}$
- (d) Explain types of PC.
- (e) What is Bar Code Reader ?
- (f) Explain types of Optical Disk.
- (g) Explain types of VIRUS.

(2)

- (h) Difference between Compiler and Interpreter.
- (i) What is Data Communication ?
- (j) What is Bridge and Hub ?
- 2. (a) Explain in brief the History of Computer.
Explain generation of Computer System. 7
- (b) Perform the following : 7
- (i) $1110 * 1.01$
- (ii) BCD number of 12
- (iii) Convert 69 decimal number to binary number
- 3. (a) What is Monitor ? Explain the types of monitor used in a computer system. 7
- (b) Explain the following : 7
- (i) Joysticks
- (ii) Touch Screen
- (iii) Printers
- 4. (a) What is Memory ? Explain the difference between sequential and Direct Access Memory ?
- (b) What are Data Drives ? Explain, how HDD is differ from a floppy disk. 7

(3)

5. (a) Explain the following : 7
- (i) Assembler
 - (ii) Compiler
 - (iii) Interpreter
- (b) What are Languages ? Explain different types of Language used in computer software. 7
6. (a) Explain the various types of Network used in computer system. 7
- (b) Explain the differences between the following : 7
- (i) Half and Full duplex transmission
 - (ii) Router and Modem
7. (a) Explain the various types of communication channels media used in Computer Network. 7
- (b) Write short notes on any **two** of the following : 7
- (i) Phase Modulation
 - (ii) TCP / IP Protocol
 - (iii) Serial and Parallel Communications
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