



PGDCA (Part - I)
Term End Examination, 2017-18

Fundamental of Computer and Information Technology

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) Define Information Technology.
 - (b) $(1110001)_2 = (?)_8$
 - (c) What is Plotter: ?
 - (d) What is Software ?
 - (e) Describe Touch Screen.
 - (f) Describe Batch Operating System.
 - (g) Define Topologies.

(2)

- (h) Describe ISDN.
- (i) Calculate 2's complement of 67.
- (j) Define index sequential storage ?

- 2. (a) What is Computer ? Explain the types of computer in brief. 7
- (b) Solve the following : 7
 - (i) $1100 * 0.11$
 - (ii) $(56)_{10} = (?)_{16}$
 - (iii) Block diagram of computer

- 3. (a) Define output device. Explain the different kinds of output device with their working process. 7
- (b) Explain the following : 7
 - (i) MICR
 - (ii) Head phone
 - (iii) Joysticks

- 4. (a) What is Memory ? Explain sequential storage and direct storage with suitable examples. 7
- (b) Explain the following : 7
 - (i) Data storage
 - (ii) Magnetic disk
 - (iii) DVD

(3)

5. (a) What is Software ? Explain the different kinds of system software with examples. 7
- (b) Explain the following : 7
- (i) Assembly language
- (ii) Virus
- (iii) Multi-user operating system
6. (a) What is Data Communication ? Explain Analog and Digital signals. 7
- (b) Explain the the following : 7
- (i) Full Duplex
- (ii) TCP/IP Protocol
- (iii) Broadband
7. Explain the following : 14
- (a) Input Device
- (b) Storage Device
- (c) Compiler and Interpreter
- (d) Modulation
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