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.

110_BSP_(3)

(Turn Over)

(2)

	(h)	Difference between Compiler and Interpreter.		
	(<i>i</i>)	What is Data Communication?		
	<i>(j)</i>	What is Bridge and Hub?		
2.	(a)	Explain in brief the History of Computer. Explain generation of Computer System.		
	(b)	Perform the following:	7	
		(i) 1110 * 1.01	7	
		(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.		
	(b)	Explain the following:	7	
		(i) Joystics	7	
		(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	
			7	
110	110_BSP_(3) (Contin			

(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	