



A-1711

B. Sc. (I.T.) (Sem. I) Examination

March / April – 2015

Fundamental of Computer

Time : 3 Hours]

[Total Marks : 70

Instruction :

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B.SC. (I.T.) (SEM. I)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="FUNDAMENTAL OF COMPUTER"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="1"/> <input type="text" value="1"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	
	Student's Signature

1 Answer the following in brief: (Any 7) 14

- (1) Which major devices were used in the First, Second and Third Generation of Computers?
- (2) What do you mean by 32 bit and 64 bit computers?
- (3) What are SIMMs and DIMMs?
- (4) Define the terms: Volatile and Non-volatile memory.
- (5) Define Seek Time and Rotational Latency.
- (6) What is USB and PS/2?
- (7) On which principle does a joystick work? Which device is used in the joystick to measure it?
- (8) What do you mean by the base of a number system? What is the base of Binary, Octal, Decimal and Hexadecimal number system?
- (9) Why DRAM is preferred over SRAM in computer's memory.

2 Answer the following questions: (Any 2) 14

- (1) Draw the block diagram of computer. Also, explain its functional units.
- (2) Explain the structure of Winchester disk. Also explain, how it works?
- (3) Explain the different types of printers in detail.

- 3** Answer the following: **14**
- (1) Explain Virtual memory and Cache memory in detail.
 - (2) Explain any one non-impact printer.

OR

- (1) Explain any one input device in detail
- (2) Explain the following DOS commands:
 (a) MKDIR (b) PROMPT (c) RD (d) MOVE

- 4** Write short notes: **14**
- (1) Laser printer **5**
 - (2) BCD and EBCDIC **5**
 - (3) Types of computers. **4**

OR

- (3) Booting process of computer **4**

- 5** Do as Directed: **14**

- (a) Solve any three: **6**

(1) $(1010101100)_2 = (?)_8 = (?)_{10} = (?)_{16}$

(2) $(235670)_8 = (?)_{10}$

(3) $(45AD.EF)_{12} + (12BC.45)_{12}$

(4) Subtract $(000101.1101)_2$ from $(1101.101011)_2$

- (b) Solve the following: **8**

Step 1 : Perform the sum of $(11001010)_2$, $(1101101010)_2$
and $(111100001100)_2$

Step 2 : Subtract $(10101010)_2$ from the answer obtained
in step 1.

Step 3 : Multiply (1101) with the answer of step 2.

Step 4 : Divide the answer obtained in step 3 by $(1011)_2$

Step 5 : Also write the 1^s and 2^s complement of the answer
obtained in step 4.