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Total No. of pages: 2

SARDAR PATEL UNIVERSITY

Chair and and Seattle in the property of the property of the M.Sc. (Bioinformatics) I Semester Examination PER SALASSES

PS01CMBI03 1T Fundamentals Thursday, 6th December, 2012

Time: 10:30 a.m. to 1:30 p.m.:

Total Marks: 70

- attended in Note; Answers to the two sections must be written in separate answer-sheets.

SECTION-I

- 1.(A) Draw the block diagram of a simple computer. Which buses are used to connect 5 various parts of a computer ? Explain the functions performed by the important components of a computer.
 - (B) Explain : Pipeline machines.

- (C) Explain how information storage is organized on a hard disk. What do you mean 5 by seek time and rotational latency?
 - 2.(A) Answer the following questions in brief (ANY FIVE):

- What are the octal and hexadecimal equivalent numbers of the binary (i) number (111100111)₂ ?
- Define: 1's complement and 2's complement of a given binary number. (ii)
 - What is the main function of a CPU? List the important components of a CPU.
- (iv) Write the steps involved in instruction execution by a CPU.
 - (v) Define: character code. What is ASCII?
 - Construct the Hamming code for the ASCII character 'B' considering even parity.
- Distinguish between the primary and secondary memory. (vii)

(B) Explain (ANY TWO):

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- (1) Array processors,
- (ii) Compact Disks,
- Addressing techniques, (iii)
- (iv) Interrupts.

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SECTION-II

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	Fill in the blanks :	5
n. I perendende i. S	(i) The address of the extreme left upper corner cell of the worksheet is	
and the second of the second	(ii) Excel displays the address of the active cell in the	:
Charles and the Control of the Contr	(iii) A formula always begins with	
	(iv) =ABS(-17.55) displays	
and File Section	(v) =ROUND(32767,-2) displays	
(B)	Differentiate between :	4
entroperate dis-	(i) Function and Formula (ii) LEFT() and MID()	4
(C)	Explain different ways to change column width of a column in worksheet.	2
4.(A)	Discuss the following MS-EXCEL functions : (Any TWO) (i) COUNT() (ii) CEILING() (iii) FIND()	4
(B)	What is a macro? Explain steps to create and execute a macro in MS-EXCEL.	3
(C)	Discuss Data -> Filter	3
	What do you mean by a database in EXCEL? Explain the sorting process in EXCEL by taking suitable examples.	3
• • • • • • • • • • • • • • • • • • •	List out atleast five string (text) built-in functions available in MS- Excel and explain any two of them.	5
(B)	What is a PowerPoint? What do you mean by a slide ? What type of information a slide can have ?	3
(C)	Describe the various effects that can be apply to a presentation.	3