. ro	TCS-201/TCS-101		Print	ed Pag	jes :
R ID : 130	Paper ID and Roll No. to be filled	d in yo	our Ans	wer Boo	ok
	B. Tech. (SEM. II) EXAMINATION, 2009				
<u> </u>	COMPUTER SYSTEM	PRO	GRA	MMIN	G

Time: 3 Hours]

[Total Marks: 100

Note: Attempt all questions.

1 Attempt any two:

10×2=20

- (a) Draw the block diagram of a digital computer and explain its various blocks.
- (b) Give classification of various types of Memory used in Computers.
- (c) List and explain various types of I/O devices.
- 2 Attempt any two :

10×2=20

- (a) Explain Software Development Life Cycle (SDLC) and various stages of spiral model.
- (b) Explain algorithm and write an algorithm to calculate factorial of a given number (N).
- (c) Differentiate between :
 - (i) Compiler and Assembler
 - (ii) Translators and Interpreters.

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[Contd...



2×10=20 Attempt any two : (a) Compute the following: (i) $(3000)_{10} = (?)_8$ (ii) $(122.86)_{10} = (?)_2$ (iii) $(1000.111)_2 = (?)_{10}$ (iv) $(217.76)_8 = (?)_{10}$ (v) $(110001)_2 = (?)_{Gray}$ (b) Explain the advantages and disadvantages of BUS, STAR and RING topology. (c) Explain n-Tier client-server architecture in detail Discuss any four of the following: 5×4=20 (a) DHTML (b) WWW (c) FTP (d) Data Management (e) MS Windows (f) MS Power Point. 5 Write short notes on any four : 5×4=20 (a) MP3 & AVI (b) ERNET (c) E-Commerce (d) MPEG (e) E-Governance (f) Digital Signature.

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