[Total No. of Questions - 9] [Total No. of Print Pages - 3] (2126)

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MCA 1st Semester Examination Fundamentals of IT and Digital Electronics (CBS) MCA-102

Time: 3 Hours Max. Marks: 60

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Candidates are required to attempt five questions in all selecting one questions from each section A, B, C & D of the question paper. Section E is Compulsory.

SECTION - A

- (a) Describe briefly the basic concepts of Information technology. (6)
 - (b) What are the important characteristics of storage devices?
 Also explain the working of Compact disk (6)
- 2. (a) Discuss in brief about the classification of softwares and give two examples of each type of softwares (4)
 - (b) Explain the major function performed by an operating system. (4)
 - (c) List the main differences and similarities between DOS and UNIX (4)

SECTION - B

(a) What is the difference between sequential circuits and combinational circuits?

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- (b) Formulate AND, OR, NOT, X-OR neither X-NOR Gates using NAND gate only (4)
- (c) Compare and contrast Floating point representation and fixed point representation (4)
- 4. (a) Verify the De Morgan's Theorem by means of truth table.
 Discuss the advantages and limitations of Karnaugh Map

 (6)
 - (b) Construct a 16-to-1 line multiplexer within two 8-to-1 line multiplexers and one 2-to-1 line Multiplexer (6)

SECTION - C

- 5. (a) How can you sort the text in table in MS-word? Explain with the help of example. (6)
 - (b) Explain with example the special effects to slides with graphics and animation. (6)
- 6. (a) How we can create and Run a Macro in MS-word? (6)
 - (b) Write a short note on the following:
 - (i) Slide Sorter
 - (ii) Preset animation
 - (iii) Slide transition
 - (iv) Notes page.

(6)

SECTION - D

7. (a) What is an Electronic Spreadsheet? What are the advantages of using a spreadsheet? Name some of the commercially available spreadsheet packages. (6)

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	(b)	Explain the following:	
		(i) Excel formulae and functions.	
		(ii) Workbook file properties.	(6)
8.	Write	e Short note on the following:	
	(i)·	Pivot Tables.	
	(ii)	Macros.	
	(iii)	Excel Databases.	
	(iv)	Graphs and Charts.	(12)
		SECTION - E	
9.	Ansı	wer the following:	
	(i)	Format Painter.	
٠	(ii)	How is NTFS different from Fat32?	
	(iii)	What is Cluster?	
,	(iv)	When does a window XP use DPC?	
	(v)	Debouncing circuits.	
	(vi)	What is the functionality of XCopy, Dis Copy and Commands in DOS? (6×2:	-