

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
(2123)

1502

**MCA 1st Semester Examination**  
**Fundamentals of IT and Digital Electronics (N.S.)**

**MCA-102**

**Time : 3 Hours**

**Max. Marks : 60**

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

**Note :** Attempt one question each from the sections A, B, C and D.  
Each question is of 12 marks. Section E is compulsory and carries 12 marks in all.

**SECTION - A**

1. What do you mean by Input and output devices? Why do computers use a variety of Input and output devices? Discuss the functional characteristics and working of any two input and two output devices. **(12)**
2. (a) Differentiate between application software and system software.  
(b) Discuss file management in Windows. How is it different from Linux? **(12)**

**SECTION - B**

3. Design a 4- bit adder circuit using full adders and explain its function. **(12)**
4. Which are the various Registers used in Common Bus System? Explain with the help of a suitable diagram. **(12)**

**SECTION - C**

5. Elaborate the salient features of MS Word with suitable examples. Discuss formatting features in detail. **(12)**

**1502/200**

**[P.T.O.]**

6. Discuss the following in short:

- (a) Slide Design
- (b) Slide layout
- (c) Narration

(12)

**SECTION - D**

7. What are the ways/commands to do the following in Excel:

- (a) Creating heading in a worksheet
- (b) Entering dates in a worksheet
- (c) Inserting a formula
- (d) Saving and quitting a worksheet

(12)

8. Elaborate in detail the provisions of Indian IT act with suitable explanations. (12)

**SECTION - E**

9. (a) Name any five applications available in Control Panel of Windows.

- (b) What are Free domain software? Give examples.
- (c) Discuss the truth table and circuit of XOR logic gate.
- (d) What is the difference between a full-adder and a half-adder?
- (e) What is a Binary Counter?
- (f) What is the difference between Auto Correct, Auto Complete and Auto Text facilities available in Word?
- (g) What is the difference between Absolute address and Relative address?
- (h) What are the different methods of pasting data in MS Excel?
- (i) What do you mean by filtering?
- (j) What is the difference between sorting and filtering?
- (k) What do you mean by a view in Power Point?
- (l) What is the role of IT in financial systems? Give examples.

(12)