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MCA 1st Semester Examination

Fundamentals of IT and Digital Electronics (NS)

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 five questions in all selecting one question each from section A, B, C, and D. Section E is compulsory.

SECTION - A

1 (a) Describe various free domain software and their advantages   (6)

   (b) Describe various components of CPU   (6)

2 (a) Explain the process of partitioning of Hard disk.   (6)

   (b) Describe file management in windows. How is it different from Linux?   (6)

SECTION - B

3. (a) Design a 4-bit binary counter using flip-flops and gates.   (6)

    (b) Describe the characteristics of CMOS technologies.   (6)

4. (a) Differentiate between combinational and sequential circuits.   (6)

    (b) Explain how K-Map can be used for minimization.   (6)

[P.T.O.]

SECTION - C

5   Elaborate the salient features of MS Word. Discuss its detailed features.   (12)

6   Describe various parameters used in printing presentation.   (12)

SECTION - D

7   (a)   Explain how to create heading in a worksheet of Excel.   (6)

   (b)   Describe the steps of formatting worksheet in Excel. (6)

8.   (a)   Describe the salient features of IT act.   (6)

   (b)   Describe the issues with the intellectual property right associated with IT related products.   (6)

SECTION - E

9.   Write short notes on the following:

   (a)   Multimedia file format.

   (b)   USB drive.

   (c)   Input devices.

   (d)   XOR logic gate.

   (e)   Multiplexer.

   (f)   Error detection codes.

   (g)   Selecting text in MS word.

   (h)   Making Notes in Presentation package.

   (i)   Working with Objects in presentation.

   (j)   Formatting cell in Excel.

   (k)   Time function in Excel.

   (l)   Application of IT for banking.   (12×1=12)