MCA–01/PGDCA–01/ M.Sc. IT–01/MIT(CS)–101

Computer Fundamentals and PC Software/Introduction to Computing

Master of Computer Application/
P. G. Diploma in Computer Application/
Mater of Science in Information Technology/
Master of Science (Cyber Security)
(MCA/PGDCA/M.Sc.IT–11/12/16/17/MSCCS–18)
First Semester, Examination, 2018

Time : 3 Hours   **Max. Marks : 80**

Note : This paper is of **eighty (80)** marks containing **three (03)** Sections A, B and C. Attempt the questions contained in these Sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section 'A' contains four (04) long answer type questions of nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

1. What are the essential components of a computer ? Draw the schematic block diagram of a computer showing its essential components. Discuss the function of each component.

2. Discuss the role of a memory management unit. Discuss how the MMU generates more logical memory addresses than the actually existing physical addresses.

3. Describe the data structure of a process in LINUX, giving its components and the structure of each. How does the data structure of a process differ from that of a thread ?

4. (i) Explain in detail how Office 2007 is different from its previous version.

   (ii) Differentiate between line spacing before and after the paragraph.

Section–B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer *four* (04) questions only.

1. What is Distributed operating system ? How is it different from conventional operating system ?

2. What are different utility commands of LINUX ? Explain each.

3. Explain memory hierarchy with the help of a diagram. Why is memory hierarchy created in a computer system ?

4. Discuss the features of direct access storage devices and serial access storage devices.

5. In LINUX, what is the purpose of the file "ktc/shadow" ? Why is it readable only by root ?

6. What is Building blocks in Word 2007 ? How do you insert a Building block entry ?

7. Explain rich conditional formatting in MS-Excel.

8. Write the steps to change the default directory in MS-PowerPoint.

Section–C
(Objective Type Questions)

Note : Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this Section are compulsory.

1. Capacity of computer memory measures in :
   (a) Bit
   (b) Byte
   (c) Kilobyte
   (d) None of the above

2. Any type of storage that is used for holding information between steps in its processing is :
   (a) CPU
   (b) Primary storage
   (c) Intermediate storage
   (d) Internal storage

3. The section of the CPU that selects, interprets and sees to the execution of program instructions :
   (a) Memory
   (b) Register Unit
   (c) ALU
   (d) Control Unit

4. Maximum font size in Word from font dialog box is :
   (a) 76
   (b) 74
   (c) 72
   (d) 80

5. Which one is an open-source operating system ?
   (a) DOS

    (b)   Windows

    (c)   LINUX

    (d)   None of the above

6.   To increase the margin between the border and the text in the cell is :

    (a)   Shift + Alt + Tab

    (b)   Ctrl + Alt + Tab

    (c)   Shift + Ctrl + Tab

    (d)   None of the above

7.   Alignment buttons are available on the .... tab.

    (a)   Home

    (b)   Insert

    (c)   View

    (d)   Review

8.   1 Tera byte equal to :

    (a)   1000 giga byte

    (b)   100 giga byte

    (c)   10000 giga byte

    (d)   None of the above

9.   Which is the core of the operating system ?

    (a)   Shell

    (b)   Kernel

    (c)   Commands

    (d)   Script

10. Applications communicate with kernel by using :

    (a)   C Programs

    (b)   Shell

    (c)   System Calls

    (d)   None of the above