MGIS–01/PGDGIS–01/CGIS–01

Introduction to Informatics

Master of Geographical Information System/Post Graduate Diploma in Geographical Information System/Certificate in Geographical Information System (MGIS/PGDGIS/CGIS-l 1/16)

First Year/First Semester, Examination, 2017

Time : 3 Hours　　　　　　　　**Max. Marks :** 70

Note : This paper is of **seventh (70)** marks containing **three (03)** sections A, B and C. Learners are required to 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 fifteen (15) marks each. Learners are required to answer *two* (02) questions only.

1. (a) What is a RAM ? What are its *two* types ? Differentiate between them.

　(b) What is a cache memory ? How is it different from a primary memory ?

　(c) Convert binary $(110100)_2$ to its decimal equivalent.

2. Discuss Operating System with its goal. Explain the different types of operating system in detail.

3. Explain computer network with its type. Also explain the different type of Network topology.

4. What is key ? Explain the different type of keys. What is the difference between Primary keys and Foreign key ?

Section–B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of five (05) marks each. Learners are required to answer *six* (06) questions only.

1. What are the application of information technology ?

2. Write down the difference between PROM and EPROM.

3. What are the different functions of Operating System ?

4. Differentiate between multiprogramming and multi-tasking operating system

5. Explain the duties of data link layer and network layer.

6. Describe TCP/IP reference model.

7. Write down the application and advantage of DBMS.

8. Explain parallel database management.

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. ROM is .... memory.

   (a) Volatile

    (b)   Non-volatile

    (c)   Secondary

    (d)   None of these

2.   Base - 2 refers to which number system ?

    (a)   Binary

    (b)   Decimal

    (c)   Hexadecimal

    (d)   Octal

3.   Optical storage media is a :

    (a)   Primary Memory

    (b)   Tertiary Memory

    (c)   Secondary Memory

    (d)   None of the above

4.   Which is single user operating system ?

    (a)   MS-DOS

    (b)   UNIX

    (c)   XENIX

    (d)   LINUX

5.   Which operating system reacts in the actual time ?

    (a)   Batch system

    (b)   Quick response system

    (c)   Real time system

    (d)   Time sharing system

6. Three or more devices share a link in .... connection.
   (a) Unipoint
   (b) Multipoint
   (c) Point to point
   (d) None of the above

7. LAN stands for :
   (a) Line Area Network
   (b) Live Area Network
   (c) Like Area Network
   (d) Local Area Network

8. Which a devices are physical layer devices ?
   (a) Bridge
   (b) Hub
   (c) Router
   (d) All of the above

9. DBMS is a collection of .... that enables user to create and maintain a database.
   (a) Keys
   (b) Translators
   (c) Language Activity
   (d) Program

10. Key to represent relationship between tables is called :
    (a) Primary key
    (b) Secondary key
    (c) Foreign key
    (d) None of the above

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