

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–11/16/17)

First Year/First Semester, Examination, 2017

Time : 3 Hours

Max. Marks : 80

Note : This paper is of **eighty (80)** 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 nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

1. (a) What is Computer Network ? Explain different network topologies with examples in details.
(b) How to convert a Binary number to a Decimal number ? Explain with example.
2. Define normalization. Explain 1st, 2nd and 3rd normal forms with examples.

3. What is operating system ? Explain the different type of properties of operating system.
4. (a) Explain any *four* secondary storage devices in detail. 10
- (b) Differentiate between multi-programming and multitasking operating system. 5
- (c) What is Network Interface Card ? Why is it used ? 4

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. Differentiate between stack and queue.
2. Describe OSI model.
3. What are the different services of operating system ?
4. Define switch, router, firewall and security.
5. Explain the different keys in RDBMS.
6. What are the application areas of Information Technology ?
7. What do you understand by DDL, DCL and DML ?
8. (a) What are the differences between Internet and Intranet ? 4
- (b) What is a Mainframe Computer ? 4

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. Which of the following is internal memory ?
- (a) Disks

- (b) Pen Drives
 - (c) RAM
 - (d) CDs
2. A collection of related instructions organized for a common purpose is referred to as :
- (a) File
 - (b) Database
 - (c) Program
 - (d) None of the above
3. The word length of a computer is measured in :
- (a) Bytes
 - (b) Millimeters
 - (c) Meters
 - (d) Bits
4. The term attribute refers to a of a table.
- (a) Record
 - (b) Column
 - (c) Tuple
 - (d) Key
5. 'Select*from employee.' What type of statement is this ?
- (a) DML
 - (b) DDL
 - (c) View
 - (d) Integrity constraint

6. Base-2 refers to which number system ?
 - (a) Binary
 - (b) Decimal
 - (c) Hexadecimal
 - (d) Octal
7. Router operates in which layer of OSI Reference Model ?
 - (a) Layer 1 (Physical Layer)
 - (b) Layer 3 (Network Layer)
 - (c) Layer 4 (Transport Layer)
 - (d) Layer 7 (Application Layer)
8. What is a Firewall in Computer Network ?
 - (a) The physical boundary of Network
 - (b) An operating system of Computer Network
 - (c) A system designed to prevent unauthorized Network
 - (d) A web browsing Software
9. Which of the following is not an operating system ?
 - (a) DOS
 - (b) Linux
 - (c) Windows
 - (d) Oracle
10. is the layer of a computer system between the hardware and the user program.
 - (a) Operating environment
 - (b) Operating system
 - (c) System environment
 - (d) None of the above