

# S-791

Total Pages : 4

Roll No. -----

## GIS-501/DGIS-501

**Introduction to Informatics**

**(MAGIS/MSCGIS/DGIS/CGIS)**

1<sup>st</sup> Semester, Examination 2022(Dec.)

Time: 2 Hours

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **Section – A**

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. What is operating system? Explain different types of Operating Systems.
- Q.2. What do you understand by Keys in database. Explain different types of keys with examples.
- Q.3. Explain computer networks with its types. Also explain the different type of network topologies.
- Q.4. Define DBMS and normalization. Explain 1st, 2nd and 3rd normal forms with examples.
- Q.5. Answer the following:
- (a) Explain internal and external storage devices in details.
  - (b) Differentiate Primary and Secondary memory. Explain RAM along with its types and how RAM is different from ROM?

## 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 any Four (04) questions only.

[4 x 8 = 32]

- Q.1. Convert any two of the following:
- $(111011.101)_2$  to its decimal equivalent.
  - $(1234.675)_{10}$  to its hexadecimal equivalent.
  - $(4A83)_{16}$  to its decimal equivalent.
  - $(3229)_{10}$  to its octal equivalent.
- Q.2. Explain ISO-OSI reference model in details.
- Q.3. Define DBMS. Explain the architecture of a database system with diagram.
- Q.4. Explain the functions of an operating system.

P.T.O.

Q.5. Write short note on any two of the following:

- a. Proprietary software
- b. Shareware software
- c. Freeware software
- d. Open-source software

Q.6. Write short note on below:

- a. Hardware and software
- b. Types of computers

Q.7. Define Integrity and Domain constraints in detail.

Q.8. Write short note on any two of the following:

- a. Magnetic Disk
- b. Magnetic Tape
- c. Cache Memory
- d. Registers

\*\*\*\*\*