

(2 ½ Hours)

Total Marks 75

- N.B:
- 1) All questions are compulsory with internal choice.
  - 2) Figure to right indicates marks allotted to each question.

Q.1 (a) Write a full form of following abbreviations. **(any five)** (05)  
 i)ISO ii) VB iii) SQL iv) TDS v) WAN vi) SMTP vii) GUI

(b) True or False. **(Any five)** (05)  
 i) The Do...loop executes block of statements until condition is False.  
 ii) val() is built in function of visual basic which converts text into number.  
 iii) Encryption is converting unreadable text into original text.  
 iv) Visual basic is a high level language.  
 v) Coaxial cable offers very low bandwidth.  
 vi) Create command is used to create new table in database.  
 vii) Microwave is wireless transmission media.

(c) Fill in the blanks. **(any five)** (05)  
 i)In \_\_\_\_\_ transmission mode data flows in both direction.  
 (Simplex , Full Duplex)  
 ii) \_\_\_\_\_ key is use to indentify unique record within a table.  
 (Primary , Foreign)  
 iii) \_\_\_\_\_ is a collection of icons representing the controls.  
 (Data , Toolbar)  
 iv) LAN refers to \_\_\_\_\_.  
 (Local Area Network , Larger Area Network)  
 v) \_\_\_\_\_ is the first layer of OSI model.  
 (Physical layer , Network layer)  
 vi)There are \_\_\_\_\_ types of twisted pair cable.  
 (Two , Three)  
 vii)\_\_\_\_\_ keyword is used to declare variable in visual basic.  
 (din , dim)

Q.2 a) Explain the functions of Application and Transport layers of OSI model. (08)  
 b) What is data communication? Give its characteristics. (07)

**OR**

Q.2 p) Write a Visual Basic program to accept two numbers from a user and print addition, subtraction , division and multiplication of them. (08)  
 q) Explain different types of transmission modes. (07)

Q.3 a) Explain E-R model in detail. (08)  
 b) Write a Visual Basic program to accept three numbers and find their average. Also display the result. (07)

**OR**

Q.3 p) Write advantages and disadvantages of Star and Bus topology. (08)

q) Explain various types of cyber crime. (07)

Q.4 a) Explain different data types in database. (08)

b) Explain Database , Tables , Fields in database. (07)

OR

Q.4 p) List all common visual basic controls. Explain any three with their properties. (08)

q) Write a Visual Basic program to accept name , address , contact number ,gender from user. Display same details on label control. (07)

Q.5 a) Write a short note.(Any three) (15)

i)Twisted pair cable

ii)DBMS

iii)Cryptography

iv)Analog and Digital signal

v)Routers

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