S-602   Roll No. …………………..

DIT–04

Fundamental of Networking and Web Technology

Diploma in Information Technology (DIT-17)

Second 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. 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) Compare and contrast a circuit-switched network and packet-switched network.

    (b) Give a brief note on the Multilink Point to point protocol.

2. (a) Compare OSI Reference Model with the TCP/IP Model.

    (b) Differentiate LAN, MAN and WAN network topologies.

(A-22) **P. T. O.**

3. (a)   What are the important topologies for networks ?

    (b)   What are the types of protocols and what are its functions and for what purpose this protocol is used.

4. Write short notes on the following :

    (i)   TCP and UDP

    (ii)   Web Server

    (iii) PING Utility

    (iv)   Router, Bridge and Switch

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 are the services provided by internet ?

2. Write a brief note on any five HTML tags.

3. Explain the features of Java Script.

4. Discuss how internet has revolutionized many aspects of our daily live.

5. How many types of transmission media used to transmit the data from source to estination ?

6. How XML is more powerful than HTML ? Discuss about the features of XML.

7. (a)   What is object ? How object is created in Java Script ?

    (b)   What is meant by control structure ? Explain if ....else statement in java script.

(A-22)

8. What are the different classes of IP address ? Discuss in detail.

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. How many layers are there in TCP/IP model ?

    (a) 4

    (b) 5

    (c) 6

    (d) 7

2. Combination of two or more networks are called :

    (a) LAN

    (b) WAN

    (c) MAN

    (d) Internetwork

3. Which of the following IF address class is multicast ?

    (a) Class A

    (b) Class B

    (c) Class C

    (d) Class D

4. The Internet is an example of :

    (a) Cell switched network

    (b) Packet switched network

    (c) Circuit switched network

    (d) All of these

(A-22) P. T. O.

5.   Who is known as the father of World Wide Web (WWW) ?

(a)   Charles Darwin

(b)   Tim Berners-Lee

(c)   Tim Thompson

(d)   None of these

6.   Which of the following is not a browser ?

(a)   Netscape Navigator

(b)   Microsoft Bing

(c)   Opera

(d)   Mozilla Firefox

7.   What is the correct syntax of the declaration which defines the XML version ?

(a)   < ?xml version="A.0" ?>

(b)   <xml version="A.0" />

(c)   < ?xml version="A.0" />

(d)   <xml version="A.0">

8.   XML stands for :

(a)   Extended Markup Language

(b)   Extra Markup Language

(c)   Extensible Markup Language

(d)   None of these

9.   JavaScript is a _____ language.

(a)   Assembly

(A-22)

(b)   Machine

(c)   Scripting

(d)   All of these

10. JavaScript is interpreted by _____.

(a)   Server

(b)   Client

(c)   Object

(d)   None of these