

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) Explain data flow of data communication with a neat diagram.  
(b) Briefly explain about types of network.
2. (a) Enumerate and explain the main responsibilities of data link layer.  
(b) Describe about networking devices in detail.
3. (a) Write about different types of connections.  
(b) What are the services provided by internet ?

**(B-100) P. T. O.**

4. (a) Write a note on JavaScript data types.
- (b) What are the advantages and disadvantages of using JavaScript ?

### **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. Explain about OSI reference model in detail.
2. What is transmission medium ? What are the different types of transmission medium ?
3. What is Switching and what are the different types of Switching Techniques ?
4. Draw the neat diagram of Internet Architecture and explain each component in detail.
5. Write an HTML code that will display a table of students name, roll number, address and total marks.
6. How can you incorporate JavaScript into an HTML page ? Explain with suitable example.
7. Explain the role of web services and the role of XML in an enterprise.
8. What are all the looping structures in JavaScript ? Explain them using a suitable example.

### **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 type of physical cable has fastest transmission speed ?
  - (a) Twisted wire Pairs

- (b) Co-axial Cable
  - (c) Fiber Optic Cable
  - (c) Micro-Wave
2. The server on the internet is also known as :
- (a) Hub
  - (b) Host
  - (c) Gateway
  - (d) Repeater
3. Which of the following protocol used for WWW ?
- (a) HTTP
  - (b) FTP
  - (c) SMTP
  - (d) None of these
4. To create HTML page you require :
- (a) Web Browser
  - (b) Text Editor
  - (c) Both (a) and (b)
  - (d) None of these
5. Which of the following is Italic tag ?
- (a) <iI>
  - (b) <IT>
  - (c) <I>
  - (d) <TI>

6. The equipment required to connect the computer with internet is :
  - (a) Gateway
  - (b) Monitor
  - (c) Modem
  - (d) CPU
7. The communication protocol used by Internet is :
  - (a) HTTP
  - (b) WWW
  - (c) FTP
  - (d) TCP/IP
8. TCP protocol is used at which layer ?
  - (a) Transport
  - (b) Data link
  - (c) Session
  - (d) Application
9. Which of the following attribute can hold the JavaScript version ?
  - (a) Language
  - (b) Script
  - (c) Version
  - (d) None of these
10. Is it possible to nest functions in JavaScript ?
  - (a) True
  - (b) False