

## DIT-04

# Fundamental of Web Technology

Diploma in Information Technology (DIT-17)

2<sup>nd</sup> Semester Examination 2019

**Time : 3 Hours**

**Maximum Marks 80**

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**Note :** This paper is of Eighty (80) marks divided into three(03) sections A, B & C. Attempt the questions contained in these sections according to the detailed instruction given therein.

### Section–A

#### (Long Answer Type Question)

**Note :** Section 'A' contains four (04) long-answer-type question of nineteen (19) marks each. Learners are required to answer any two (02) question only. (2x19=38)

1. What is the difference between ISO-OSI and TCP/IP reference model ? Explain in detail.
2. What is protocol Hierarchy of Network Layer ? what is Sliding Window Protocol? Explain the reason for moving from the stop-and-Wait ARQ protocol to the Go-Back-N ARQ protocol.
3. What is the principal difference between connectionless communication & connection oriented communication ? What are the different wireless transmission model ? Explain with example.
4. Which software are required for Client Server Programmimg ? Explain the basic programming concept and control structures in JavaScript.

## Section – B

### (Short Answer Type Question)

**Note :** Section 'B' contains eight (08) short answer type questions of four (04) marks each. Learners are required to Answer four (04) questions only. (4x8=32)

1. Give an example describing the working principle of HTML forms.
2. What are the major features of IP address ? Explain IP address structure ?
3. In relation to Domain Naming System, why is a hierarchical naming structure used instead of flat structure?
4. What is switching technique ? Explain different kind of switching techniques in detail.
5. What is the difference between HTML and XML ? Give suitable examples.
6. What is the difference between built-in objects and user defined objects in JavaScript ? Give suitable example.
7. What do you understand by static web page design and how will you design static web page ? Give suitable example.
8. What are LANs? What is the difference between Server Based LANs and Peer to Peer LAN ?

## Section –C

### (Objective Type Question)

**Note :** Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this section are Compulsory. (10 x 1 = 10)

1. When does JavaScript code appear inline within an HTML file ?
  - a. Between the "script" tag
  - b. Outside the "script" tag
  - c. Both a and b
  - d. None of the mentioned
  
2. Which is the opposite to the load event in Javascript ?
  - a. dontload
  - b. postload
  - c. Preload
  - d. unload
  
3. XML Stands for :
  - a. Xtra Markup Language
  - b. Extensible Multi Language
  - c. Extensible markup language
  - d. Xtensible Multi Language
  
4. A JavaScript program can traverse and manipulate document content thorough
  - a. Element Object
  - b. Document Object
  - c. Both a and b
  - d. None of the mentioned
  
5. OSI model is an architecture of network communication with
  - a. 7 layers
  - b. 5 layers
  - c. 8 layers
  - d. 4 layers
  
6. Which device connect two Local Area Network ?
  - a. Bridge
  - b. Router
  - c. Switch
  - d. None of the above

7. Coaxial, twisted pair cables are example of
- a. Narrowband
  - b. Braodband
  - c. Wirless
  - d. None of the above
8. Which set of protocol defines all transmission exchanges across the internet.
- a. OSI
  - b. TCP/IP
  - c. UDP
  - d. None of the above
9. Which cable accepts and transport signals in the form of light.
- a. Twister pair
  - b. CO-axial cable
  - c. Optical fibre
  - d. None of the above
10. Which of the following is not a web browser ?
- a. Internet Explorer
  - b. Google chorme
  - c. Window Vista
  - d. None of these

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