

DIT-04

Fundamental of Web Technology

Diploma in Information Technology (DIT-17)

2nd Semester Examination 2019

Time : 3 Hours

Maximum Marks 80

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
