

MCA-04/PGDCA-04/MSC.IT-04
Fundamental of Networking and Web Technology
Master of Computer Application/P.G.Diploma in
Computer Application

(Master of Computer Applications/P.G.Diploma in
Computer Applications/

Master of Science in Information Technology

(MCA/PGDCA/Msc.IT-11/12/16/17)

First Semester Examination 2019

Time : 3 Hours

Max. 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. How do the layers of the internet model correlate to the layers of the OSI model ? What are the concerns of the physical layer in the Internet model ?

2. List three different techniques in serial transmission and explain the differences.
3. What is an event? Explain with an example "how the HTML allows to assign events to HTML elements using Javascript".
4. Write a javascript program that sets up a session on receiving username and password. In case the username and password match "UOU" and "TEST" respectively, the user is redirected to a page named result. Jsp.

Section – B

(Short Answer Type Question)

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

1. Differentiate between Parallel and serial Transmission.
2. What are the responsibilities of Network layer in the TCP/IP model ?
3. What is the essence of DNS ? How does it map to IP address.
4. List and explain any five examples of WAN applications.
5. Name the four basic network topologies, and cite an advantage of each type.
6. What is HTML ? Write five HTML tags with their uses.
7. Explain XML . What are the advantage of XML in website designing over HTML .
8. Explain the use of Array and Functions in java Script ?

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.

Q1 Which topology requires multipoint connection

- (a) STAR
- (b) MESH
- (c) BUS
- (d) RING

Q2 XML stands for :

- (a) Extensible Medium Language
- (b) Extensible markup Language
- (c) Electirc markup Language
- (d) None of the above

Q3 IPV6 Address is

- (a) 16 bit
- (b) 32 bit
- (c) 128 bit
- (d) 64 bit

Q4 physical or logical arrangement of network is ?

- (a) Routing
- (b) Networking
- (c) Topology
- (d) None of the above

Q5 URL stands for ?

- (a) Uniform resource locator
- (b) Unique resource locator
- (c) Unified resource locator
- (d) None of the above

Q6 Which is the 5th Layer of ISO-OSI Model ?

- (a) Application Layer
- (b) Data Link Layer
- (c) Session Layer
- (d) Network Layer

- Q7 In HTML heading tags are used ?
(a) H1 to H6 (b) H1 to H5
(c) H1 to H4 (d) None of the above
- Q8 Multiplexing technique that shifts each signal to a different carrier frequency.
(a) TDM
(b) DM
(c) Both TDM and FDM
(d) None of the above
- Q9 The physical layer concerns with :
(a) Application to application delivery
(b) Process to process delivery
(c) byte to byte delivery
(d) bit by bit delivery
- Q10 Bits can be send over guided and unguided media as analog signal by.
(a) Digital modulation
(b) frequency modulation
(c) amplitude modulation
(d) phase modulation
