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MCA-04/PGDCA-04/M.Sc. IT-04
Fundamentals of Networking and Web Technology
(MCA/PGDCA/MSc.IT-11/12/16/17)
First Semester, Examination, 2019

Time : **3 Hours**   *[Maximum Marks : 80*

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section A contains Five (05) long-answer-type questions of Fifteen (15) marks each. Learners are required to answer any three (03) questions only.   **(3×15=45)**

1. What is a Computer Network? Explain different kinds of switching techniques used in a computer network.

(2)

2. Describe TCP/IP reference model of computer network and their working with example.

3. Explain about different Transmission media with the help of examples. What is the position of the transmission media in the OSI or the Internet model?

4. Design a web page (write code) using HTML and JavaScript containing a paragraph about Uttarakhand Open University. The text colour of this paragraph should change on click of the mouse on that paragraph.

5. What is Built-in Objects in JavaScript? Show the use of Built-in objects in JavaScript with the help of an example.

Section–B

(Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only.   **(5×7=35)**

1. What is microwave transmission? Write any two advantages and two disadvantages of the microwave transmission system.

2. What are the responsibilities of Transport layer in the TCP/IP model?

3. Distinguish between baseband transmission and broadband transmission?

4. What are some of the factors that determine whether a communication system is a LAN or WAN.

5. Write short note on DNS, URL and Cookies?

6. Write about formatting tags of HTML.

7. What HTML code for embedding a table in a web page.

8. What is Java Script? Explain the use of Control Structures in Java Script.