

**PGDCA/MSCCS-05/MCA-105/CCNI**

June - Examination 2018

**MSCCS/PGDCA/CCNI/MCAI Year Examination****Computer Networking and Internet****Paper - PGDCA/MSCCS-05/MCA-105/CCNI****Time : 3 Hours ]****[ Max. Marks :- 100**

**Note:** The question paper is divided into three sections A, B and C. Write answers as per given instructions.

**Section - A****10 × 2 = 20**

(Very Short Answer Questions)

**Note:** Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) For n devices in a network, what is the number of cable links required for mesh and bus topology.
- (ii) What is a signal?
- (iii) Draw ring topology network.
- (iv) Write any four Internet services.
- (v) What is the full form of ISDN? Write names of its different channels.
- (vi) Differentiate static and dynamic web-pages.

- (vii) What is a search engine?
- (viii) Differentiate connection oriented and connectionless protocol?
- (ix) List the major elements of a web page.
- (x) Define firewall.

**Section - B****4 × 10 = 40**

(Short Answer Questions)

**Note:** Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) What is the relationship between period and frequency of a signal? Also differentiate analog and digital signal with example.
- 3) Explain the functions of various layers of OSI network model in brief.
- 4) Compare and contrast a circuit switched network and a packet-switched network.
- 5) Why do we use domain name instead of IP address?
- 6) What are the different tasks that a browser performs?
- 7) What are the features of JAVA that makes it ideal for Internet Programming?
- 8) What is DSL technology? Distinguish between DSL modem and DSLAM.
- 9) How does a virtual LAN reduces network Traffic?

**Section - C****2 × 20 = 40**

(Long Answer Questions)

**Note:** Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) Routing decisions are handled by network layer. How is that done? Explain what if congestion occurs? Explain any two routing protocols.
- 11) Explain the uses of a browser support to
- (a) Cookie
  - (b) Active X files
  - (c) Applets and
  - (d) JavaScript? Write the common functions of firewall.
- 12) Write short notes on:
- (a) DHTML
  - (b) XML
  - (c) MARQUEE tag
  - (d) DOM object
- 13) Describe the four stages of the life cycle of an applet at the Appletcontext. How does `init()` and `start()` differ in an applet? Explain the life cycle of an applet with a diagram and compare it with life cycle of a thread.