Term End Examination - December, 2016
Diploma in Computer Applications
DCA-03: NETWORK FUNDAMENTALS (2016 Syllabus)

Time - 3 hours   **Full Mark - 100**

*Answer any four questions from Group -'A', any two questions from
Group -'B' and any three questions from Group -'C'*

Group 'A'   Marks: 5 × 4= 20

(Answer any four questions each within 100 words)

Q. No. 1

    a) Outline the characteristics of data communication.
    b) Name and explain the three modes of data transmission.
    c) What are the drawbacks of a star topology?
    d) Name two similar functions of data link and the transport layer.
    e) Differentiate between node-to-node and source-to-destination delivery.
    f) What is a Search Engine? Give two examples of Search Engines.
    g) Write short notes on Intranet.

Group 'B'   Marks: 10 × 2= 20

(Answer any two questions each within 250 words)

Q. No. 2

    a) Draw the block diagram for the data communication system. Explain each of its components.
    b) What do you mean by a network topology? Write the features, advantages and disadvantages of a Bus topology.
    c) Compare and contrast between Guided and Unguided Media.
    d) What are Domain names? Give examples of some domain names.
    e) Explain the services provided by the Internet.

Group 'C'   Mark: 20 × 3= 60

(Answer any three questions each within 500 words)

Q.No. 3. Explain the functions of all the Layers of OSI reference Model.
    4. Differentiate between the packet switching and the circuit switching.
    5. Discuss the features, merits and demerits of LAN and WAN.
    6. Discuss the services provided by the protocols ARP, RARP and IP.
    7. Discuss about the WWW and the Internet. Write the applications of the Internet.
    8. Write briefly about IPV4 addresses and its classification.