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Term End Examination - June, 2017
Diploma in Computer Application
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'

Mark: 5 X 4= 20

*(Answer any **four** questions each within 100 words)*

Q. No. 1

- a) Name the components of a data communication system.
- b) List the criteria of a Network to be more efficient.
- c) What is Internet Protocol? Explain its services.
- d) List the various guided media used for transmission.
- e) What is the difference between node-to-node and source-to-destination delivery?
- f) Name four factors needed for a secure network.
- g) Differentiate between TCP and UDP.

Group 'B'

Mark: 10 X 2= 20

*(Answer any **two** questions each within 250 words)*

Q. No. 2

- a) Define a computer network. Discuss various types of networks topologies in computer network.
- b) Discuss the features of wireless transmission media.
- c) Explain IPV4 addresses with classes.
- d) Comparison between Twisted pair Cable and Co axial Cable.
- e) Explain about Electronic Mail.

Group 'C'

Mark: 20 X 3= 60

*(Answer any **three** questions each within 500 words)*

- Q. No. 3. Explain the OSI Network architecture specifying the functions of each layer.
4. Describe the Simple Mail Transfer Protocol (SMTP) in detail.
 5. Explain the packet switching approaches and how different from circuit switching?
 6. Discuss and differentiate between LAN, MAN & WAN.
 7. Explain the frame format & transition phases of point-to-point protocol.
 8. What is Internet and write the applications of Internet.