



DCCA – 303

**III Semester B.C.A. Degree Examination, April/May 2023
(NEP Scheme)**

COMPUTER APPLICATION

DSC9 : Computer Communication and Networks



Time : 2½ Hours

Max. Marks : 60

Instruction : Answer *all* the Sections.

SECTION – A

I. Answer **any six** questions. **Each** question carries **two** marks. **(6×2=12)**

- 1) Define Computer Networks.
- 2) What is MAN ?
- 3) Define Message Switching.
- 4) What is multiplexing ?
- 5) What is byte stuffing ?
- 6) Mention the design issues of data link layer.
- 7) What is hierarchical routing ?
- 8) Define protocol.
- 9) Mention the services provided to Transport layer.

SECTION – B

II. Answer **any four** questions. **Each** question carries **six** marks. **(4×6=24)**

- 10) Explain the OSI reference model.
- 11) Compare LAN, WAN and MAN.
- 12) Explain the following :
 - i) Twisted pair
 - ii) Coaxial cable.

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- 13) Explain Checksum with an example.
- 14) Explain token bucket algorithm.
- 15) Write a note on internet transport protocol.

SECTION – C

III. Answer **any three** questions. **Each** question carries **8** marks. **(3×8=24)**

- 16) Explain any four topologies with neat diagram. 8
 - 17) Write a note on switching. 8
 - 18) a) Write a note on CRC. 4
b) Explain Hamming code with an example. 4
 - 19) Write a note on distance vector routing with an example. 8
 - 20) a) Write a note on Electronic Mailing. 4
b) Write a note on WWW. 4
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