

Sl. No. 100016

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GS-754

IV Semester B.Voc. Examination, May/June - 2019

INFORMATION TECHNOLOGY

**405 : Data Communication Networks
(CBCS) (F+R) (2017-18 & Onwards)**

Time : 3 Hours

Max. Marks : 70

Instruction : Answer **all** sections.

SECTION - A

Answer **any ten** of the following.

10x2=20

1. What is a protocol ?
2. Compare analog and digital transmission.
3. List any four features of TDMA.
4. What is gateway ?
5. Differentiate between single bit error and burst error.
6. What is framing ?
7. What is Congestion ?
8. What is routing ? Give the classification of routing algorithm.
9. What is the use of TELNET ?
10. Define Attenuation.
11. What is the use of repeaters ?
12. Expand HTTP. Where is it used ?

P.T.O.

**SECTION - B****5x10=50**Answer **any five** of the following.

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|---------|---|----|
| 13. (a) | Define network topology. Explain the star topology. | 5 |
| (b) | Explain the types of errors. | 5 |
| 14. (a) | Explain Manchester encoding scheme. | 5 |
| (b) | Explain Time Division Multiplexing. | 5 |
| 15. (a) | Explain the channelization method of CDMA. | 5 |
| (b) | Write short notes on ALOHA protocols. | 5 |
| 16. (a) | Write short notes on Virtual Circuits. | 5 |
| (b) | Write short notes on Leaky bucket Algorithm. | 5 |
| 17. (a) | What do you mean by Peer to Peer Protocol ? Compare PPP with HDLC. | 5 |
| (b) | Explain the differences between connection and connectionless services. | 5 |
| 18. | Explain OSI reference model in detail. | 10 |
| 19. (a) | Explain Dijkstra's algorithm. | 5 |
| (b) | Describe FDDI. | 5 |
| 20. | Compare packet switching with circuit switching. | 10 |

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