

# 1458

Code : 15CS34T

Register Number 

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III Semester Diploma Examination, Nov./Dec. 2016

## COMPUTER NETWORK

Time : 3 Hours ]

[ Max. Marks : 100

- Note :** (i) Answer any **six** questions from Part – A. Each carries **5** marks.  
(ii) Answer any **seven** full questions from Part – B. Each carries **10** marks.

### PART – A

Answer any **six** questions. Each carries **5** marks.

5 × 6 = 30

1. Describe the different types of data flow.
2. Explain the need of networking.
3. Illustrate with example different types of errors.
4. Explain multimode transmission of optical fibre.
5. Explain the role of NIC.
6. Explain the components of an IP address.
7. Explain the working of ISDN.
8. Explain the advantages and disadvantages of leased lines.
9. Discuss frame relay protocol.

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## PART – B

15 CS NIS

Answer any **seven** full questions. Each carries **10** marks.**10 × 7 = 70**

10. Explain briefly the components of data communication with diagram. **10**
11. Explain OSI reference model with neat diagram. **10**
12. Discuss controlled access methods. **10**
13. Explain with a diagram and an example, the process of error detection using block coding method. **10**
14. Describe the Token Ring data frame format. **10**
15. Explain with diagram Repeaters and Hubs. **10**
16. Explain HTTP and FTP higher layer protocols. **10**
17. Explain the features of IP address of classes. **10**
18. Illustrate the working of VPN with a neat diagram. **10**
19. Discuss PPP and X-25 protocols. **10**

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