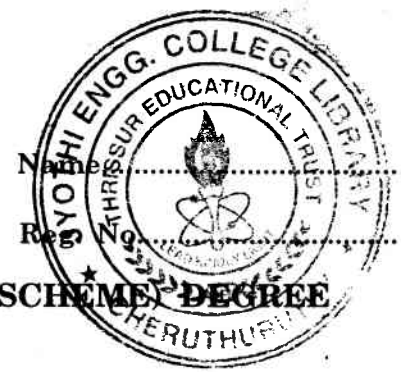


C 1174

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**SIXTH SEMESTER B.TECH. [ENGINEERING] (09 SCHEME) DEGREE
EXAMINATION, APRIL 2016**

IT/CS/PTCS 09 603—COMPUTER NETWORKS

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Define the WiMax standard.
2. Differentiate between circuit switching and packet switching techniques.
3. State the need for routers.
4. Define Internetworking.
5. Define the role of application layer.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Explain the working of the Token Ring.
7. Explain the principle of subnetting with an example.
8. Write a note on the working of PIM protocol.
9. Explain about the explicit routing mechanism.
10. Explain the duties of a Transport layer.
11. Write about the working of the Presentation layer.

(4 × 5 = 20 marks)

Part C

12. (a) Write in detail about the working of ATM along with its design goals.

Or

- (b) With a neat sketch, explain the working of FDDI.

13. (a) Explain in detail about the working of the link state OSPF protocol.

Or

- (b) Define a Bridge. When it is needed ? Explain the working of Bridges in detail.

Turn over

14. (a) Explain in detail about the working of the IPv6 protocol.

Or

(b) Write about the working of the Virtual Private Networks.

15. (a) Explain about the working of TCP Protocol.

Or

(b) Explain the working of the Remote Procedure Call mechanism in detail.

(4 × 10 = 40 marks)

Part A

Answer all questions

1. Define the WAN standard

2. Differentiate between circuit switching and packet switching techniques

3. State the need for routers

4. Define internetworking

5. Define the role of application layer

(5 × 2 = 10 marks)

Part B

Answer any four questions

6. Explain the working of the Token Ring

7. Explain the principle of multiplexing with an example

8. Write a note on the working of ATM protocol

9. Explain about the explicit routing mechanism

10. Explain the duties of a Transport layer

11. Write about the working of the Presentation layer

(4 × 5 = 20 marks)

Part C

12. (a) Write in detail about the working of ATM along with its design goals

Or

(b) Write a note about explain the working of FRM

13. (a) Explain in detail about the working of the link state OSPF protocol

Or

(b) Define a Bridge. What is its need? Explain the working of Bridge in detail