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50PM

Reg. No. :

Question Paper Code : 20420

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Fifth/Sixth Semester

Computer Science and Engineering

CS 8591 – COMPUTER NETWORKS

(Regulations 2017)

(Common to: Computer and Communication Engineering/Information Technology)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the three fundamental characteristics of Data communication system?

2. How standards are categorized?

3. State the difference between HDLC and PPP

4. What are the functions of Logic link control sub layer?

5. State the difference between IPV4 and IPV6.

6. State the difference between Broadcasting and multicasting

7. Write the comparison between UDP and TCP.

8. To avoid redundant services, OSI model has defined five types of services what are they?

9. What is WWW?

10. How Email service works?

PART B — (5 × 13 = 65 marks)

11. (a) (i)   Write your understanding on guided media with necessary sketches.   (7)

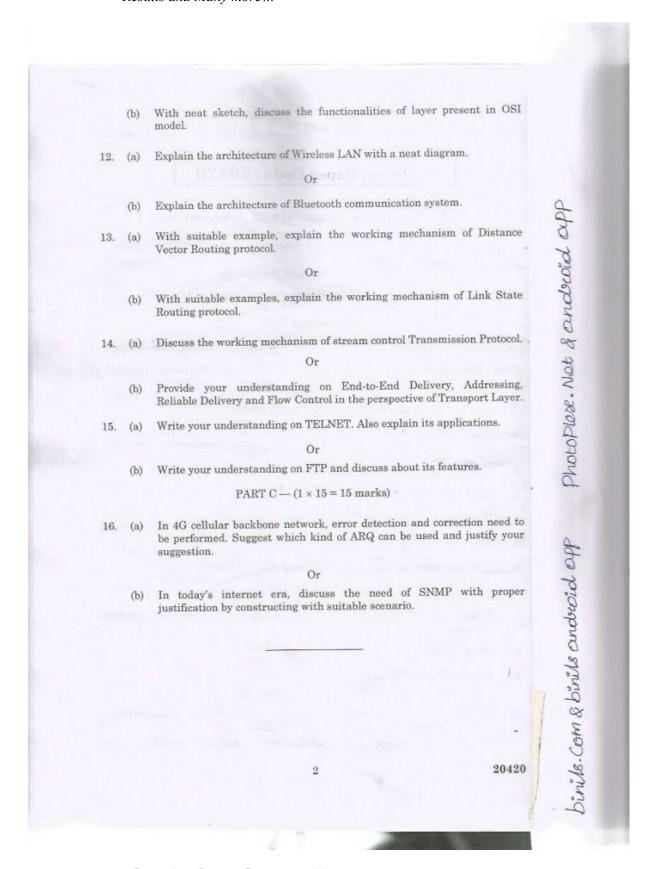   (ii) Compare and contrast packet switching and circuit switching.   (6)

Or

(b)   With neat sketch, discuss the functionalities of layer present in OSI model.

12.   (a)   Explain the architecture of Wireless LAN with a neat diagram.

Or

(b)   Explain the architecture of Bluetooth communication system.

13.   (a)   With suitable example, explain the working mechanism of Distance Vector Routing protocol.

Or

(b)   With suitable examples, explain the working mechanism of Link State Routing protocol.

14.   (a)   Discuss the working mechanism of stream control Transmission Protocol.

Or

(b)   Provide your understanding on End-to-End Delivery, Addressing, Reliable Delivery and Flow Control in the perspective of Transport Layer.

15.   (a)   Write your understanding on TELNET. Also explain its applications.

Or

(b)   Write your understanding on FTP and discuss about its features.

PART C — (1 × 15 = 15 marks)

16.   (a)   In 4G cellular backbone network, error detection and correction need to be performed. Suggest which kind of ARQ can be used and justify your suggestion.

Or

(b)   In today's internet era, discuss the need of SNMP with proper justification by constructing with suitable scenario.

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