Q. P. Code: 20CSE363 HALL TICKET NO.: \_\_\_\_\_\_\_\_\_\_\_

B.TECH VI SEMESTER (R20)

REGULAR / SUPPLEMENTARY EXAMINATIONS - JUN - 2024

COMPUTER NETWORKS

(Common to CSE, CSM, CAI and CSD)

Time: 3 Hours Max. Marks: 70

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## PART – A

Answer ALL questions. Each question carries 2 marks.

1. Tech VI Semester (CO: R20 Computer Networks Examination\*\*, BT: -)

2. (CO: -, BT: -)

3. (CO: 20 Marks\*\*, BT: -)

4. Each question carries 2 marks. (CO: -, BT: -)

5. | CO1 | L1 | (CO: -, BT: -)

6. | CO2 | L1 | (CO: -, BT: -)

7. (CO: -, BT: -)

8. | CO4 | L2 | (CO: -, BT: -)

9. (CO: -, BT: -)

10. | CO1 | L2 | (CO: -, BT: -)

11. | CO2 | L2 | (CO: -, BT: -)

12. | CO3 | L2 | (CO: -, BT: -)

13. (CO: -, BT: -)

14. | CO5 | L1 | (CO: -, BT: -)

## PART – B

Answer ONE question from each UNIT – Each question carries 10 marks.

### UNIT - 1: INTRODUCTION TO ELECTRICAL ENGINEERING\*\*

15. No. | Question | CO | BT Level | (CO: -, BT: -)

(OR)

16. (CO: 5 marks b Using Thevenin's theorem, BT: find the current through the 5Ω resistor in the given circuit diagram will be provided. 5 marks | CO1 | L3 |)

### UNIT - 2: SINGLE PHASE AC CIRCUITS\*\*

17. No. | Question | CO | BT Level | (CO: -, BT: -)

(OR)

18. 1H, C=100µF. Find the impedance and current when connected to a 230V, 50Hz supply. Draw the impedance triangle. (CO: 5 marks b Explain the concept of power factor and its significance. 5 marks | CO2 | L3 |, BT: -)

### UNIT - 3: DC MACHINES\*\*

19. No. | Question | CO | BT Level | (CO: -, BT: -)

(OR)

20. (CO: 5 marks b Explain the different methods of speed control of a DC shunt motor. 5 marks | CO3 | L3 |, BT: -)

### UNIT - 4: AC MACHINES\*\*

21. No. | Question | CO | BT Level | (CO: -, BT: -)

(OR)

22. (CO: 5 marks b Explain the O.C and S.C tests on a transformer. 5 marks | CO4 | L3 |, BT: -)

### UNIT - 5: MEASURING INSTRUMENTS\*\*

23. No. | Question | CO | BT Level | (CO: -, BT: -)

(OR)

24. (CO: 5 marks b Explain the working principle of a moving coil instrument. 5 marks | CO5 | L3 |, BT: -)