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G.R. No.	
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DECEMBER 2021 – END SEM EXAM
T. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)
COURSE NAME: PROFESSIONAL ELECTIVE – I
[COMPUTER NETWORK – I]
COURSE CODE: CSUA31185A
(PATTERN 2018)

Time: [1 Hr]

[Max. Marks: 30]

Instructions to candidates:

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed.
- 4) Use suitable data wherever required.

Q.1 a Investigate the steps to configure IP (IPv4 and IPv6) floating static routes. [4]

Q.1 b Determine the common troubleshooting commands to troubleshoot IPv4 Static and Default Route Configuration. [6]

OR

Q.2 a Investigate the steps to configure IPv4 and IPv6 default static routes. [4]

Q.2 b Demonstrate with the help of codes to verify the configuration of default static route. [6]

Q.3 a Differentiate between WPAN, WLAN, WMAN and WWAN. [4]

Q.3 b Examine when would it be appropriate for use: [6]
1: Autonomous AP and Controller based AP.
2: Ad hoc and Infrastructure modes.

OR

Q.4 a Relate the strengths and weaknesses of the various shared key authentication methods. [4]

Q.4 b Distinguish the various ways to mitigate the attacks made against wireless networks. [6]

Q.5 a 'You should periodically check the router or access point for updated firmware.' Justify this statement. [4]

Q.5 b Determine the steps to configure the WLAN controller to use an external RADIUS server to authenticate WLAN users. [6]

OR

Q.6 a Recommend the steps for VLAN interface configuration on the WLC. [4]

Q.6 b Illustrate the systematic approach for troubleshooting any sort of network problem. [6]