**SET 3**

**Scheme of Valuation/Answer Key**

**(Scheme of evaluation (marks in brackets) and answers of problems/key)**

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

**THIRD SEMESTER M.C.A. DEGREE EXAMINATION, DECEMBER 2018**

**Course Code: RLMCA201**

**Course Name: COMPUTER NETWORKS**

Max. Marks: 60 Duration: 3 Hours

**PART A**

**Answer all questions, each carries3 marks Mark**

1.Knowledge of layers in either ISO/OSI or TCP/IP with figure -2 mark

Explanation -1 mark

2.Concept of DNS-2 mark

Explanation of DNS record -1 mark

3.Three way handshake explanation-2 mark

Figure-1 mark

4. Knowledge of network address - 2 mark

Knowledge of network mask -1mark

5. Switches – 1 mark.

Routers – 1 mark.

Bridges -1 mark.

6. Knowledge of parity bits-2 marks

Example- 1 mark

7. SNMP-1mark

MIB-1mark

SMI- 1 mark

8. Bluetooth Layers:L2CAP, Baseband and Radio layer explanation:2 mark

Figure- 1 mark

**PART B**

**Answer six questions, one full question from each module and carries 6 marks**.

**Module I**

9. QoS concepts – 3 marks.

Methods to achieve QoS – 3 marks.

**OR**

10. SSL and PSP not included in the syllabus. So the question is clearly out of syllabus. Full mark may be given for attempting to answer the question- 6 mark

**Module II**

11. knowledge of POP3- 3 marks.

Persistent and Non Persistent HTTP – 3 marks.

**OR**

12. Client-Server – Explanation with Diagrams – 3 Marks.

Peer to Peer – Explanation with Diagrams – 3 Marks.

**Module III**

13. Reliable data transfer explanation- 2 mark

Knowledge of Go back N and Selective repeat - 4 mark

**OR**

14. AIMD algorithm is not explicitly included in the syllabus.

What is congestion- 2 mark

Different congestion control techniques (open loop and closed loop) – 4 mark

**Module IV**

15 .DHCP is not explicitly stated in the syllabus.

**OR**

16. IP packets fields with explanation – 3mark

Network Address Translation (NAT) is not explicitly specified the syllabus.

**Module V**

17 . 1. Ethernet frame structure with explanation-3 mark

2. Knowledge of switches- 3 mark

**OR**

18.List out all the Services of data link layer to network layer with explanation – 6 marks.

**Module VI**

19. Full mark may be given for explaining any 3 types of network attacks(2 marks for each)- 6 mark

**OR**

20. 1. IEEE 802.11 WLAN frame structure with explanation - 3 mark

2. IEEE 802.11 components: Access point and Base station, ESS,BSS – 3 mark