

M.E/M.TECH Degree Examination, December 2020

Third Semester

NW18011 Convergence Technologies

(Regulation 2018)

Time: Three hours

Maximum : 80 Marks

Answer **ALL** questions

PART A - (8 X 2 = 16 marks)

1. A local telephone network is an example of a _____ network.
 - a) Packet switched
 - b) Circuit switched
 - c) Bit switched
 - d) Line switched
2. Which of the following is the most commonly used VoIP standard?
 - a) SDP
 - b) IMS
 - c) SIP
 - d) None of the mentioned
3. Which of the following video format can be uploaded on YouTube ?
 - a) OGV
 - b) OGG
 - c) DivX
 - d) All of the mentioned
4. RFID stands for?
 - a) Random frequency identification
 - b) Radio frequency identification
 - c) Random frequency information
 - d) Radio frequency information
5. List the difference between circuit switching and packet switching network with an example
6. Justify the need for PSTN gateways and VOIP gateways in VOIP networks.
7. List the difference between lossy and lossless compression with an example
8. How IP convergence technologies in the market are implemented?

PART B - (4 X16 = 64 marks)

09. (a) Explain in detail about ATM network with a neat diagram and provide how an ATM (16) network can be deployed in real time environment

(OR)

- (b) Explain in detail OSI reference model with a neat diagram and differentiate OSI reference model and TCP reference model (16)

10. (a) Explain in detail H323 protocol with a neat diagram and explain how H323 protocol is deployed in Internet telephony (16)

(OR)

- (b) Explain in detail implementation of MGCP protocol and explain how MGCP protocol is deployed in Internet telephony (16)

11. (a) Explain in detail MPEG 4 protocol and its implementation with a neat diagram (16)

(OR)

- (b) Explain in detail MPLS system with a neat diagram and how it is implemented in real time environment (16)

12. (a) Explain in detail HIPERLAN technologies with a neat diagram and explain the difference between HIPERLAN 1 and HIPERLAN 2 (16)

(OR)

- (b) Explain in detail Zigbee protocol stack with a neat diagram and explain how it can be implemented in real time environment (16)