

INFORMATION TECHNOLOGY BRANCH

8th SEMESTER

IT9040 MULTIMEDIA NETWORKS

(REGULATION 2009)

Time: 3 hr

Max. Mark : 100

Answer ALL Question

Part – A (10 X 2=20 Marks)

1. Bring out the difference between the Guaranteed Service and the Controlled Load in ISA.
2. What are the specific requirements of inelastic traffic in ISA?
3. What is meant by Label Switched Routers (LSRs)?
4. Mention the concepts of Soft State and hard state in RSVP.
5. What is the role of the redirect server in Session Initiation Protocol (SIP)?
6. Define the term Per-hop behavior (PHB).
7. What are the three mechanism used to remove jitter at the receiver for audio?
8. Compare and contrast the streaming and continuous playout of multimedia content.
9. What is the need for quantization in audio compression?
10. What is the various form of motion compensation in MPEG Scheme?

Part B (5 X 16 = 80)

11. i) Explain the reasons why TCP is not suitable for real time applications. (4)
- ii) Explain the block diagram for Integrated Services Architecture and give details about components. (12)

12. a) i) Explain the characteristics of RSVP & the types of data flow. (8)
ii) Explain the RSVP operation and protocol mechanisms. (8)

OR

- b) i) Explain the congestion control mechanism in ATM networks carrying TCP traffic. (10)
ii) Explain the ATM traffic control mechanism. (6)

13. a) i) Discuss about the Session Initiation Protocol (SIP) architecture and its operation. (10)
ii) Compare the merits and demerit of SIP and H.323 in VoIP. (6)

OR

- b) i) Explain the various functions that are performed by the media player. (6)
ii) Describe briefly about the accessing the audio and video through the web server. (10)

14. a) Describe the two playback strategies used to eliminate the effect of Jitter while receiving audio.

OR

- b) Discuss about the four function that are performed by the RTP Control Protocol (RTCP).

15. a) Describe about various multiplexing techniques that is used for delivering multimedia over high capacity networks.

OR

- b) i) What are the necessary changes to make the best effort service and Internet Protocol to support the multimedia content through the internet? (6)
ii) Discuss about the MPEG video compression algorithm with a neat diagram. (10)
