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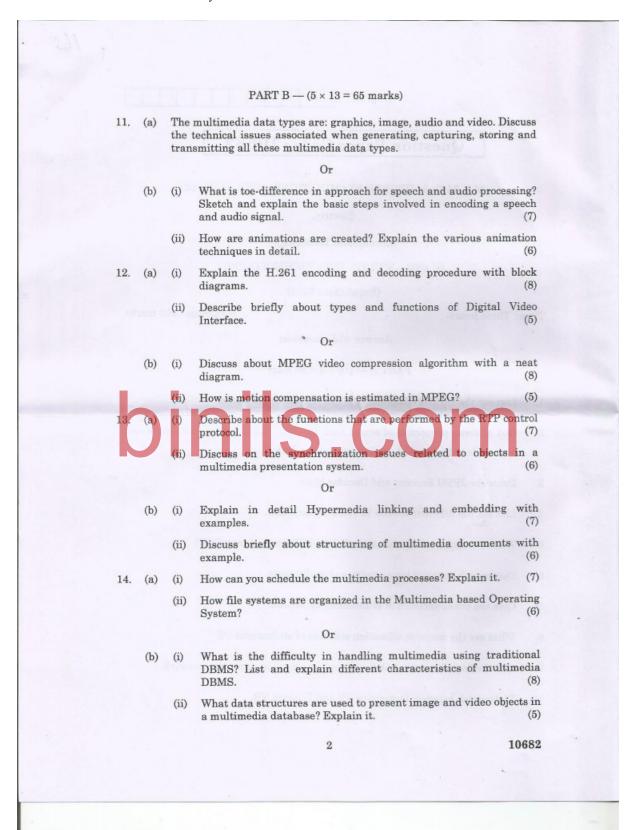
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165 Reg. No.: Question Paper Code: 10682 M.E./M.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023. Elective Information Technology IF 4002 - MULTIMEDIA TECHNOLOGIES (Regulations 2021) Maximum: 100 marks Time: Three hours Answer All questions. PART A — $(10 \times 2 = 20 \text{ marks})$ List out the various components of multimedia applications. 1. Out of three properties of sound namely: pitch, loudness, and 2. e needs to be encoded more accurately and why? Draw the JPEG Encoder and Decoder block. 3. List out the different frames in video compression. 4. What are additional features needed for RTP protocol over TCP? 5 Distinguish between hypermedia and multimedia. 6. Give the characteristics of multimedia databases. What are the resource allocation schemes of multimedia OS. 8. List the four elements of QoS in a multimedia communication network. 9. Distinguish between Immersive VR and Desktop VR.

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- (a) (i) Sketch and explain a QoS layered model for the multimedia communication systems. (7)
 - Describe briefly about the implementation of multimedia mail system.

Or

- (b) (i) What specialized input and output devices have been developed for virtual reality? Describe each in briefly. (7)
 - Discuss briefly about various broadcast schemes of video on demand.

PART C — $(1 \times 15 = 15 \text{ marks})$

16. (a) With neat sketch identify the five main stages associated with the baseline mode of operation JPEG and given a detailed description of the role of each stages.

Or

(b) You are a multimedia designer. You are involved in the process of designing a web site for an e-commerce web site. Explain in detail the process of inserting multimedia components into the above web site in the design phase.

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