

**ANURAG Engineering College**  
(An Autonomous Institution)

**IV B.Tech I Semester Supplementary Examinations, April - 2024**

**MULTIMEDIA COMPUTING**  
(COMPUTER SCIENCE AND ENGINEERING)

**Time: 3 Hours**

**Max. Marks: 75**

**Section – A (Short Answer type questions)**

**(25 Marks)**

**Answer All Questions**

	Course Outcome	B.T Level	Marks
1. List the four basic characteristics of multimedia system?	CO1	L1	2M
2. Write applications of multimedia.	CO1	L1	3M
3. What are MIDI devices?	CO2	L1	2M
4. Explain the basic concept of sound? How can you represent using computer?	CO2	L2	3M
5. Why image recognition is required?	CO3	L1	2M
6. Explain different steps used in image recognition system?	CO3	L2	3M
7. What is computer-based animation?	CO4	L1	2M
8. Explain video signal representation?	CO4	L2	3M
9. What are different compression issues?	CO5	L1	2M
10. Differentiate between JPEG and MPEG?	CO5	L2	3M

**Section B (Essay Questions)**

**Answer all questions, each question carries equal marks.**

**(5 X 10M = 50M)**

11. A) What is a multimedia? Explain the multimedia system with suitable practical examples?	CO1	L3	10M
<b>OR</b>			
B) Explain the importance of medium in multimedia system. Explain different types of mediums in detail.	CO1	L3	10M
12. A) Explain the process of speech generation? Explain different components of speech recognition and understanding?	CO2	L3	10M
<b>OR</b>			
B) Why MIDI devices are required in multimedia system? Explain different components of MIDI?	CO2	L3	10M
13. A) Discuss various image formats? Difference between captured image and stored image and graphic format?	CO3	L3	10M
<b>OR</b>			
B) Explain computer image processing? What are different possibilities of image transmission?	CO3	L3	10M
14. A) Explain different types of television system? Justify why HDTV is better than the conventional system?	CO4	L3	10M
<b>OR</b>			
B) Explain different steps employed for computer-based animation system? Explain about different animation languages?	CO4	L3	10M
15. A) Why image compression is required? Explain different types of compression?	CO5	L3	10M
<b>OR</b>			
B) Distinguish between MPEG and DVI video compression Techniques?	CO5	L3	10M