

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2018****Subject Code: 2181607****Date: 07/05/2018****Subject Name: Multimedia and Animation(Departmental Elective - III)****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain Digitization principles in details. **07**
(b) What is Redundancy? Explain types of Redundancy in detail. **07**
- Q.2** (a) Explain Lossless image representation formats. **07**
(b) Briefly explain Lossy and Lossless compression techniques. **07**
- OR**
- (b) What is Static Huffman Coding? Explain with suitable example. **07**
- Q.3** (a) Explain elements of multimedia communication system. **07**
(b) Describe the principles of TIFF and its application domains. **07**
- OR**
- Q.3** (a) List out the different applications of multimedia networks. Explain any four in detail. **07**
(b) What is Arithmetic coding? Briefly describe with suitable example. **07**
- Q.4** (a) Explain LZW coding. **07**
(b) Briefly explain 3D Modeling process. **07**
- OR**
- Q.4** (a) Briefly explain MPEG-1, MPEG-2 and MPEG-4 standard. **07**
(b) Briefly explain PCM and DPCM. **07**
- Q.5** (a) Explain Video Compression Principles. **07**
(b) Explain Adaptive Predictive Coding and Linear Predictive Coding. **07**
- OR**
- Q.5** (a) What is Key Frame Animation? Explain in detail. **07**
(b) Explain Facial Animation. **07**
