G.R. No.	

DECEMBER 2021 - ENDSEM EXAM
T. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)
PROFESSIONAL ELECTIVE-I
COURSE NAME: COMPUTER GRAPHICS AND IMAGE PROCESSING
COURSE CODE: CSUA31185D
(PATTERN 2018)

Time: [1 Hr]   [Max. Marks: 30]

Instructions to candidates:
1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
2) Figures to the right indicate full marks.
3) Use of scientific calculator is allowed
4) Use suitable data where ever required

Q.1) a) Distinguish between RGB and CMY color models.   [4]

    b) Identify the types of Animation.   [6]

<div align="center">OR</div>

Q.2) a) Analyze the use of segmentation in computer graphics.   [4]

    b) Explore Animation Languages used in Computer Graphics.   [6]

Q.3) a) Discuss local enhancement technique.   [4]

    b) Explore the key stages in Digital Image Processing.   [6]

<div align="center">OR</div>

Q.4) a) Analyze ideal low-pass filter and Butterworth low-pass filter.   [4]

    b) Discover Image sampling and quantization.   [6]

Q.5) a) Discuss Watershed Segmentation Algorithm.   [4]

    b) Composition of image segmentation techniques.   [6]

<div align="center">OR</div>

Q.6) a) Identify the three topographical interpretation points.   [4]

    b) Explore watershed segmentation method in image processing.   [6]