

**VII SEMESTER B.TECH. COMPUTER SCIENCE AND ENGINEERING
MAKEUP EXAMINATIONS, FEBRUARY 2022**

SUBJECT: AUGMENTED AND VIRTUAL REALITY [CSE 4051]

REVISED CREDIT SYSTEM

24. 2. 2022 (Online)

Time: 2:20 PM to 3:35 PM

MAX. MARKS: 20

Instructions to Candidates:

- ❖ Part B (20 marks)
- ❖ Part B to be handwritten, scanned and uploaded on Teams
- ❖ Missing data may be suitable assumed.

Part B - Descriptive Questions (20 marks)

1	Analyze the modeling phase where object models are represented as a set of faces. Include relevant examples.	5
2	Comment on tactile and tangible displays used in Augmented Reality.	3
3	Comment on the graphics pipeline stage that performs collision detection and collision response for haptics based on object properties.	2
4	“In this approach, tracking is preferably done outdoors’. Identify the approach mentioned in the given statement and briefly describe the methodology in use with an example.	4
5	‘SensaBubble delivers scented fog encapsulated in bubbles of specific sizes along directed paths’ – Analyze and briefly discuss the type of display used here.	3
6	Analyze and specify the characteristics of technology where visual senses are under control of system and offers real time interactivity.	3