



InSem Examination-IISummer2024		
Exam Seat No.:		
Academic Year:2023-2024	Semester: II	
Name of Programme: FYMCA	Pattern:2022	
Name of Course: Elective I: C: Augmented Reality and Virtual	Course Code:MCA222003C	
Max. Marks:30	Duration:1 hr	

<p><b>Instructions:</b> Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.</p> <ol style="list-style-type: none"><li>1. This question paper contains 2 pages.</li><li>2. Answer to each new question is to be started on a new page.</li><li>3. Assume suitable data wherever required, but justify it.</li><li>4. Draw the neat labelled diagrams, wherever necessary.</li><li>5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.</li></ol>
---

**Question No. 1 Attempt following Question**

- a) Explain in detail DDA line drawing algorithm. (8) CO1

**OR**

- b) Calculate the points between the starting coordinates (20, 10) and ending coordinates (30, 18). (8) CO1

- c) Difference between raster scan and random scan display. (7) CO1

**OR**

- d) Discuss animation and types of animation in detail. (7) CO1

**Question No. 2 Attempt following Question**

- a) Explain in detail augmented reality with example. (8) CO2

**OR**

- b) What are some key challenges and limitations of current augmented reality technology? (8) CO2

c) Explain the working principle of augmented reality (AR) systems. (7) CO2

**OR**

d) What are the primary applications of augmented reality in various industries such as gaming, education, healthcare, and retail? (7) CO2

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX