

QP CODE: 26801749



Reg No :

Name :

INTEGRATED M.Sc. DEGREE EXAMINATION, APRIL 2026

Eight Semester

INTEGRATED M.Sc. COMPUTER SCIENCE-ARTIFICIAL INTELLIGENCE AND MACHINE
LEARNING

ELECTIVE - ICSA8EC2 - AUGMENTED AND VIRTUAL REALITY

2020 Admission Onwards

B12C15F4

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. List any three primary features of VR.
2. Write any three functional features of AR systems.
3. Mention any three applications of movement capture technology.
4. What is a visual output device?
5. Define visual computation in VR.
6. What is refresh rate in stereoscopic hardware?
7. Define SDK in VR framework.
8. Mention any two advantages of using 3D menus.
9. Explain how VR is used for virtual set design in movies.
10. Design a VR game that encourages daily physical exercise.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain any two examples of Augmented reality.
12. Mention two types in AR taxonomy.
13. Explain any two tracking Systems.





14. Compare auditory devices and haptic devices.
15. Explain raster graphics and vector graphics.
16. Describe the hardware components used in stereoscopic display.
17. Describe the role of sensors and cameras in body tracking systems.
18. Discuss the features required in an ideal VR development tool.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Describe the main components of a VR system with suitable examples.
20. Explain the Difference between Augmented Reality and Virtual Reality.
21. Compare video-based input, 3D menus, and 3D scanners in terms of functionality and applications.
22. Explain how Virtual Reality is used to demonstrate Digital Entertainment.

(2×5=10 weightage)

