

Unit-IV

16 each

8. Explain the concept of phenomenal augmented reality as the fundamental basis of mobile and wearable AR.
9. What is Humanistic Intelligence ? Explain the signal flow path theory of HI. Also discuss How HI is related with wearable computing ?

Roll No : _____

Total No of Questions : 9] [Total No of Pages : 4

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MCA 3rd Semester (Regular) Examination,
February-2022
(MCA 2 Year Programme)
(Nov/ 2020-21)

Paper-21MCA2YDA3

MIXED REALITY AND WEARABLE COMPUTING
Elective 1 (III)

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note - Attempt five questions in all, selecting one question from each Unit. Q. No 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) What is PIC ?
- (b) Discuss the processing code structure in context of mixed reality.

- (c) How can a programming problem be approached ?
- (d) What is serial UART communication ?
- (e) How virtual reality is different from mixed reality ?
- (f) What is Data Persistence ? Illustrate with example.
- (g) What are the characteristics and attributes of wearable computing ?
- (h) How augmented reality is related with wearable computing ? 2×8=16

Unit-I 16 each

- 2. (a) Name the mixed reality systems used to couple virtual objects with the real world. Also discuss the implementation of MR systems with markers.
- (b) Discuss the circuit theory and parts identification in terms of basic electronics.

- 3. (a) How data can be collected with the help of sensors ? How the QoS increases with sensor and participants ?
- (b) What is Hologram ? How interfacing is done using hologram ?

Unit-II 16 each

- 4. How serial and parallel communication is carried out in a real environment ?
- 5. Discuss the construction and architecture of a mixed reality system ?

Unit-III 16 each

- 6. How augmented reality is different from virtual reality ? What is augmented reality used for ? How does augmented reality work and discuss the relationship of computer vision and augmented reality ?
- 7. How live network feeds, data persistence and database interface are used to make the environment real ?