

No. of Printed Pages : 03

Roll No.

18G6

B. Tech. EXAMINATION, 2022

(Seventh Semester)

(C. Scheme) (Main & Re-appear)

(CSE)

CSE405C

SOFTWARE DESIGN AND ENTERPRISE
COMPUTING

Time : 3 Hours]

[Maximum Marks : 75

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

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

1. Write short notes on the following : $3 \times 5 = 15$

- (a) Potentiometric Biosensor
- (b) Future prospects of point-of-care testing
- (c) Microbial sensor
- (d) SPR
- (e) Biosensor and nanotechnology.

Unit I

- 2. "Biosensor is the marriage between biology and electronics." Explain and enumerate its various applications. **15**
- 3. Write a detailed note on the role of immobilization in construction of biosensor. **15**

Unit II

- 4. What are the different glucometers available in market ? Explain the working and the merits for management of glucose at home. **15**
- 5. Explain micro fabrication technology adopted to prepare Biosensors. Enlist important features of i-STAT system. **15**

Unit III

- 6. What is SPR Sensing ? Explain its important features and application in detail. **15**
- 7. Discuss the biosensors based on evanescent waves, in detail. **15**

Unit IV

- 8. Describe biochips and their application in modern sciences. **15**
- 9. Explain commercialization and future prospects of Biosensors. **15**