JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- FEB-2023

COURSE CODE (CREDITS): 21B1WPH831(3)

MAX. MARKS: 15

COURSE NAME: BIOSENSORS

COURSE INSTRUCTORS: DR. RAGINI RAJ SINGH

MAX. TIME: 1 HOUR

Note: All questions are compulsory. Marks are indicated against each question in square

Q.1. There are certain characteristic attributes for biosensors which can reflect the performance

Q.2. List the various factors affecting the electro analytical performance of biosensors.

[CO: 1, Marks: 2.0]

Q.3. Discuss all the main components of biosensors with suitable diagram.

[CO: 1, Marks: 2.0]

Q.4. What are the limitations, advantages and disadvantages of biosensors?

[CO: 2, Marks: 2.5]

Q.5. What are the bio-receptor molecules discuss with examples? Also explain the key-lock mechanism for selectivity in biosensors. [CO: 2, Marks: 2.0]

Q.6. How enzymes can be immobilized onto electrode surface, discuss the mechanism with [CO: 2, Marks: 1.5]

Discuss the mandatory issues concerning the production of biosensors at commercial scale.

[CO: 3, Marks: 2.0]