Dr Saurabh

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- OCT 2019

B.Tech VII Semester

COURSE CODE: 14B1WBT736 MAX. MARKS: 25

COURSE NAME: ANTIBODY ENGINEERING TECHNOLOGIES

COURSE CREDITS: 03 MAX. TIME: 1.5 Hr.

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

[CO I]

1. Discuss ADEPT technology and its advantages for treatment deep seated large cancerous mass of cells. **[3]**

[CO II]

2. Describe expression systems, hosts, cloning and designing strategies for production of Chimeric Antibodies. **[5]**

[CO III]

3. **i)** ..... and ..... are the main components that are generally used for displaying proteins on the yeasts cell surface. **[1]**

   ii) Phage coat proteins ..... and ..... are the most widely used phage proteins for phage display **[1]**

   iii) What do you understand by Biopanning? **[1]**

4. Explain the principle of Phage display and its advantages. **[2]**

5. How the Cell surface display method is advantageous over the phage display method? **[2]**

[CO IV]

6. List the various factors which will you consider while designing a bioreactor for Antibodies production. **[2]**

7. Write a short notes on following with suitable diagrams: **[8]**

   a) Airlift Bioreactor

   b) Hollow Fiber Bioreactor

   c) Fluidized Bed Bioreactor

   d) Ribosome Display