

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Sep 2018

B.Tech VII Semester

COURSE CODE: 14BIWBT736

MAX. MARKS:15

COURSE NAME: ANTIBODY ENGINEERING TECHNOLOGIES

COURSE CREDITS: 3

MAX. TIME: One Hr

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

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Q1. Give suitable explanation for the following statements:

[1.5 X 4 = 6.0]

- a. IgG is NOT preferred for production of chimeric antibodies to be used for diagnostics.
- b. Intramuscular or subcutaneous administration of antibodies is considered better than their oral administration.
- c. A murine monoclonal antibody has 70% less half life than their humanized counterpart.
- d. Immunoglobulins are Bifunctional Proteins.

Q2. Describe 'Hybridoma Technology' for monoclonal antibody production with suitable flow chart or diagrams. Discuss the essentiality of HGPRT (negative) myeloma cells and Aminopterin in the process. [5]

Q3. Write Short Notes on: (ANY TWO)

[2 X 2 = 4]

- a. Rituxan and its role in cancer therapeutics
- b. Application of Monoclonal Antibodies
- c. Antigenic Determinants on Antibodies