

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Sept'2017

B.Tech (Biotech.), VIIth Semester

COURSE CODE: 15M11BT431

MAX. MARKS:15

COURSE NAME: Traditional Bioprocesses and their upscaling

COURSE CREDITS: 3

MAX. TIME: 1 h

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

I. Match the following one's

(5 x 1 = 5 M)

<u>Protein</u>	<u>Source</u>
(a) Protein A	(i) <i>Peptococcus Magnus</i>
(b) Protein L	(ii) <i>Staphylococcus aureus</i>
(c) Protein G	(iii) Streptococci.
(d) Protein D	(iv) <i>Clostridium perfringens</i>
(e) Protein P	(v) <i>B. catarrhalis</i>

II. Short answer questions

(5 x 1 = 5 M)

- (i) Mention any two disadvantages of culturing of mammalian cells?
- (ii) What denotes the "Isotyping" step of antibody characterization?
- (iii) Write any two advantages of CSTR which suitable for Industrial scale production?
- (iv) Name any two examples for Disposable reactors used for Mab's production?
- (v) Mention the two names of "GRAS" flocculants used in primary recovery of Mab's?

III. Hypothesis (YES or NO) and provide the supporting text in 4-5 lines (2 x 2.5 = 5 M)

- (A) Cryogel bioreactor and hollow fiber reactor have same type of network configuration
- (B) Hydrophobic Interaction chromatography is the primary chromatographic technique used in DSP of Mab's rather than Protein A chromatography

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