De voi lapato

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- Dec 2018

B.Tech (Biotech), VII Semester

COURSE CODE: 15M11BT431

MAX. MARKS:35

COURSE NAME: Traditional Bioprocesses & their upscaling

COURSE CREDITS: 03

MAX. TIME: 2 h

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

- 1. Mention the different product purity attributes in case of Mab's DSP? With a neat sketch depict the Mab recovery process along with the objectives? (CO I) (5 M)
- 2. Classify the principle types of flavour compounds used in foods? Write a note on the role of flavorist in food, pharmaceutical and cosmetic industries (CO II) (5 M)
- 3. Discuss in detail about the flavour production in the fermented products of Beer and Chocolate? (CO III) (5 M)
- 4. What are the main mechanisms exerted by phytochemicals towards health benefits? Give any two examples of phytochemicals along with their sources and roles? (CO III) (5 M)
- 5. What are the desirable properties, benefits and side effects of probiotics? Mention the different characteristics of prebiotics? (CO IV) (5 M)
- 6. Mention the advantages of using inorganic carriers in sol-gel based enzyme immobilization and discuss the process of sol-gel synthesis? (COIV)(5 M)
- 7 Discuss the role of surface instrumental techniques of SEM. TEM. XPS, CD and Microcalorimetry in immobilization technology (CO IV) (5 M)

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