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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- February 2020

B. Tech VIII Semester

COURSE CODE: L-14B1WBT741

MAX. MARKS: 15

COURSE NAME: Bio-Resources & Industrial Products

COURSE CREDITS: 3

MAX. TIME: 1Hr

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

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**Answer the following Questions.**

1. Write the names of amino acid involved in biosynthesis of penicillin by *Penicillium chrysogenum* and explain the role of ACV synthetase. [2] [CO-2]
2. (a). We already have a number of Acts relating to forestry, wildlife etc. Why do we need this legislation on biodiversity? [1.5] [CO-1]  
(b) India has several practitioners (vaid & hakims) of Indian systems of medicines who use herbs etc for medicine and healthcare. Will such use be affected by the legislation? [1] [CO-1]
3. What is meant by exploitation of bio-resources with short term aims? List four advantages [2] [CO-1]
4. What is the importance of Natural Bio-resources? Why is it necessary to conserve them? [2] [CO-1]
5. Write a note on microbial bio-resources in food industries [1.5] [CO-2]
6. How secondary metabolites from plants can be used in the form of bio-products? Explain their biosynthesis and usage by citing example of any phytochemical. [5] [CO-4]