

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**  
**B.Tech. (Semester VIII), Test 1 (Dec. 2016)**

**Course Code: 14B1WBT 741**

**Max. Marks: 15**

**Course Name: Bioresources and Industrial Products**

**Course Credit: 3**

**Max. Time: 1:00 Hr**

Attempt all questions. Carrying of mobile phones will be treated as the case of unfair means.

Q. Answer following questions briefly.

1X5=5

1. What is sustainable development? Use of bioresources for industrial products will lead to sustainable development. Justify the statement.
2. What is bioprospecting? Give any five important drug discoveries from nature.
3. Use of bio-renewable would ensure security of supply and use. Comment
4. What is vertical cooperation? Give one situation in which it may be required to achieve proper utilization of bioresources.
5. Identify a waste bioresource material of your native area and suggest means of its utilization.

Q.3 Enlist the thermo chemical processes used for non-conventional utilization of wood. Discuss fast pyrolysis of wood, with emphasis on process parameters, products and type of reactors used.

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Q.2 What do you understand by integral valorization? Discuss the approach based on regional solutions citing "Mureck energy cycle" as example.

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Q.4 Why formulation of policies and regulations are required for proper utilization of bioresources. Write a short note on Indian biodiversity act 2002.

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