

Roll No:.....

Gadapati Vyay Kumar

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- March-April 2017

BT DD X<sup>th</sup> Sem / M.Tech II<sup>nd</sup> Semester

COURSE CODE: 14M11BT211

MAX. MARKS: 25

COURSE NAME: Industrial Biotechnology

COURSE CREDITS: 03

MAX. TIME: 1.5 Hrs

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

- 1) Write about the biological pretreatment of lignocellulosics towards bioethanol production? Discuss the enzymatic hydrolysis of lignocellulosics through cellulolytic enzymes? (5 M)
- 2) What are the main features of extremophile “*Deinococcus Radiodurans*”? Write about the practical applications of extremophiles? (5 M)
- 3) Discuss about the “Compatible Solute” survival strategy of halophiles? Mention the reasons behind usage of halophiles for low-cost production of PHA’s? (5 M)
- 4) Write about the methods used for debittering of protein hydrolysates? Mention the basic processes used for refining the crude oil and write about the degumming step of crude oil? (5 M)
- 5) Mention the usual steps in leather manufacturing? Write about the enzymes used for soaking and bating steps of leather manufacturing? (5 M)

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