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**GIET UNIVERSITY, GUNUPUR – 765022**

M. Sc. (Fourth Semester – Regular) Examinations, May – 2021

BTPC 402 – Bioprocess Engineering and Technology

(Biotechnology)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks)

PART – A**(2 x 10 = 20 Marks)**Q.1. Answer **ALL** the questions

- a. Bacterial regeneration time
- b. Biofuel
- c. Fed batch culture
- d. Activated sludge
- e. Isoelectric point
- f. RCF
- g. Copyright
- h. Biocontainment
- i. Biotransformation
- j. Trademarks

PART – B**(6 x 5 = 30 Marks)**Answer ANY FIVE questions

Marks

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| 2. Laboratory techniques of bacterial pure culture | (6) |
| 3. Microbial secondary metabolites | (6) |
| 4. Design and principle of a fermenter | (6) |
| 5. Fluidized bed bioreactor | (6) |
| 6. Gas liquid chromatography | (6) |
| 7. Microbial production of ethanol | (6) |
| 8. Cartagena protocol on biosafety | (6) |
| 9. Role and application of biosafety | (6) |

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