

QP Code : U24A042

Reg. No :

Name :

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER B.Sc (FYUGP) DEGREE EXAMINATION, November 2024

B.Sc Biotechnology

BTY1CJ101 : Fundamentals of Biotechnology

2024 Admission Onwards

(Credits: 4)

Time : 2 Hours

Maximum Marks : 70

Section A

[Answer all. Each question carries 3 Marks] (Ceiling: 24 Marks)

1. State the difference between green biotechnology and red biotechnology. [BTL1]
2. List any 2 eminent contributors of biotechnology and write a note on their contributions. [BTL1]
3. Define Superbug. [BTL1]
4. List out and identify different parts of bright field microscope. [BTL4]
5. Explain white biotechnology and its application. [BTL2]
6. Describe on biotechnology private institutes in India. [BTL2]
7. What examples can you find in red biotechnology? [BTL3]
8. What elements would you choose to explain ancient biotechnology? [BTL3]
9. How can you examine public sector institutes of biotechnology? [BTL4]
10. Ethical issues of biotechnology. Justify. [BTL4]

Section B

[Answer all. Each question carries 6 Marks] (Ceiling: 36 Marks)

11. How would you summarize biotech success stories? [BTL2]
12. What is the main idea of laminar air flow? [BTL2]
13. How can you show your understanding on orbital shaker? [BTL3]
14. How would you use analytical balance? Explain the principle? [BTL3]
15. What motive is there in using water bath? Explain the principle? [BTL3]
16. What ideas justify multidisciplinary nature of biotechnology? [BTL4]
17. How can you analyze blue biotechnology? [BTL4]
18. What all could be done to minimize the contamination in nutrient agar plates? [BTL5]

Turn Over

Section C

*[Answer **any one**. Each question carries 10 Marks] (1x10=10 Marks)*

19. How you can make use of the following instruments? [BTL3]

- (a) pH meter
- (b) Bright field microscope
- (c) Autoclave

20. What details would you use to support the importance of biotechnology in developing world? [BTL5]

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