# STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086 (For candidates admitted during the academic year 2019 – 2020 & thereafter)

**SUBJECT CODE: 19BY/PE/IB15** 

## M. Sc. DEGREE EXAMINATION, APRIL 2023 BIOTECHNOLOGY FOURTH SEMESTER

**COURSE : ELECTIVE** 

PAPER : IPR, BIOSAFETY, BIOETHICS AND ENTREPRENEURSHIP

TIME : 3 HOURS MAX. MARKS: 100

## SECTION - A

#### ANSWER ALL THE QUESTIONS

 $(10 \times 2 = 20)$ 

- 1. What are Intellectual Property Rights?
- 2. Expand GATT.
- 3. What is GMP?
- 4. Define LMOs.
- 5. What is biopiracy?
- 6. What is prenatal diagnosis?
- 7. What are the types of entrepreneurs?
- 8. Write about Business Model Canvas.
- 9. Define Startup.
- 10. Expand BIRAC.

#### SECTION - B

#### ANSWER ALL THE QUESTIONS

 $(5 \times 8 = 40)$ 

11. a) Write TRIPS and its significance.

(or)

- b) What is PCT and its benefits?
- 12. a) Write about the guidelines for rDNA research.

(or)

- b) Write briefly on Cartagena Protocol.
- 13. a) Write the ethical issues in clinical trials.

(or)

- b) Explain Human Genome Project.
- 14. a) What are the methods of Project Appraisals?

(or)

- b) Briefly explain Business Road Map.
- 15. a) Write about the structure of a biotechnological company.

(or)

b) What is the current scenario of funding opportunities for Biotech Business?

#### SECTION - C

### ANSWER ANY TWO QUESTIONS IN ABOUT 1500 WORDS $(2 \times 20 = 40)$

- 16. Explain the types of Intellectual Property Rights.
- 17. Write in detail about the different types of containment in biosafety cabinet.
- 18. Elaborate on the principles of research ethics and ethical issues in clinical trials.
- 19. Write an essay on the biotechnology industries in India.

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