21/12

(Pages : 4)



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Reg. No.:	1
Name:	

Fifth Semester B.Sc. Degree Examination, December 2022 Career Related First Degree Programme under CBCSS

Botany and Biotechnology

BB 1573: ANIMAL BIOTECHNOLOGY

(2019 Admission onwards)

Time: 3 Hours

Max. Marks: 80

PART - A

Answer all questions in a word or one or two sentences. Each question carries 1 mark.

- 1. Define primary cell culture.
- 2. What is Bio safety cabinet?
- 3. Comment on passaging.
- 4. Give note on t-plasminogen activator.
- 5. What are Mesenchymal stem cells?
- 6. Comment on induced pluripotent stem cells.
- 7. What is cryoprotectant?
- 8. Comment on Dolly.
- 9. Give note on Herman.
- 10. What are Roller bottles?

 $(10 \times 1 = 10 \text{ Marks})$

PART - B

Answer any eight questions. Each question carries 2 marks. (Answer not to exceed one paragraph)

- 11. What are transformed cell lines?
- 12. Briefly explain MTT Assay.
- 13. Give notes on CO₂ incubator.
- 14. Explain suspension cell cultures.
- 15. What is DMEM?
- 16. Define confluence.
- 17. Comment on Balanced salt solutions.
- 18. Explain interferon.
- 19. Discuss the applications of spinner flask.
- 20. What are Hematopoietic stem cells?
- 21. Give notes on ANDi.
- 22. Explain the use and applications of Personal Protection Equipment.
- 23. Comment on Flow cytometry.
- 24. Discuss about Basal media.
- 25. Comment on Confocal microscopy.
- 26. What is GloFish?

 $(8 \times 2 = 16 \text{ Marks})$

PROFES C

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- 27 Great relation, more than belt trees
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- 29 If them the applications of arms call culture
- 30. Discuss in detail various properties of Adherent cell tres-
- 11. Unlest a make on different cell culture media
- 32. Explain the methods and applications of Virus cultivation.
- 3.5. What is meant by cell wathing? Seetly discuss various account to measure cost visibility.
- 34. Cufferentiate between embryonic and adult stem cells.
- 35. What are transperic animals?
- 36. Write a detail of note on Cryopresentation of animal cell tres.
- 37. Give an accident on animal biorpactors
- 33. Write a note on Sicrethics in animal cell culture

14 · 4 = 28 解析(*3)

PART - D

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- 41. What are bioreactors? Give a note on its types.
- 42. Give a brief essay on stem cell culture and its clinical uses.
- 43. Give an account on expansion of bioactive proteins in animal cell lines.
- 44. Write an essay on Preservation and maintenance of anima cell cultures.

 $(2 \times 15 = 30 \text{ Marks})$