QP CODE: 24019455

24019455

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

Second Semester

B.Sc Clinical Nutrition and Dietetics Model III

Complementary Course - CN2CMT03 - BIOCHEMISTRY-GENERAL BIOCHEMISTRY

2017 ADMISSION ONWARDS

0A5C1D3E

Time: 3 Hours Max. Marks : 80

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Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Explain the major application of radioisotopes in industrial microbiology.
2. What is meant by PIPs?
3. What is meant by Number 6 Plastics?
4. Who is the Father of Genetic Engineering? What was his award winning experiment?
5. What is a blunt end?
6. Which organisms cause periodontal disease?
7. Trypanosoma cruzi.
8. What are the common symptoms of sickle cell anaemia?
9. Which genes are involved in type 2 diabetes?
10. How can gene knockout be useful?
11. Gel electrophoresis.
12. What is Meselson and Stahl experiment?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Talk about the harmful effects of artificial fertilisers.

14. Compare and contrast between biofertilisers and synthetic fertilisers.

15. Write a note on the biological and non biological methods of gene transfer after cloning.

16. How can we diagnose AIDS in the initial stages?

17. Write a note on DNA in the diagnosis of Alzheimer's disease.

18. Briefly explain the topic 'Artificial chromosomes'.

19. Who constitutes a bioethics committee and why?

20. Write a note on Thermal Cyclers.

21. What are the steps involved in DNA fingerprinting?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Write an essay on the ecofriendly methods we can utilise to reduce the carbon footprint left by synthetic plastics.

23. Elaborate on the different types of vectors employed in gene cloning.

24. Elaborate on the uses of genetic engineering in real life.

25. Explain the hybridisation methods employed in genetic engineering.

(2×15=30)