

PGIVS 1586 A-16
M.Sc. IVth Semester Degree Examination
Biotechnology
(Plant Biotechnology)
Paper : HCT - 4.1

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Section 'A' is compulsory
2. Answer B & C sections as per instruction.

Section - A

Answer all questions

(10×2=20)

1. Protoplast
2. Androgenesis
3. Opines
4. SNP
5. PR proteins
6. Roundup tomato
7. Bioplastic
8. GEAL
9. Peimer designing
10. Bioenergy

Section - B

Answer any **four** of the following :

(4×6=24)

11. Tissue culture medium composition- a note.
12. Write a note on protoplast isolation.
13. Explain technique of vector construction in plant transformation.

14. Explain the strategy for inducing virus resistance in transgenic plants.
15. Write a note on seed storage proteins.
16. Explain the quality parameters of biodiesel.

Section - C

Answer any **three** of the following :

(12×3=36)

17. Write an account on applications of plant tissue culture in horticulture.
 18. Explain the methodology of producing Bt - cotton using Agrobacterium mediated gene transfer
 19. Discuss the importance and technology of marker assisted selection.
 20. “Plant as a bioreactor” - Discuss with suitable example in commercial sector.
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PGIVS 1587 A-16
M.Sc. IVth Semester Degree Examination
Biotechnology
(Medical and Nanobiotechnology)
Paper : HCT - 4.2

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Section 'A' has all compulsory questions.
2. Answer 'B' & 'C' sections as per instructions.

Section - A

Answer the following in brief :

(10×2=20)

1. Infection
2. Blastomycosis
3. Antifungal drugs.
4. Drug sensitivity
5. Chemotherapy
6. Induces
7. Wassermann reaction
8. Scarlet fever
9. Nanoparticles
10. Bio sensors

Section - BAnswer any **four** of the following :**(4×6=24)**

11. Gonorrhoeae.
12. Widal Test

13. Structure of viruses.
14. Interferons
15. Recent trends in Nanobio technology
16. Amoeobiosis.

Section - C

Answer any **three** of the following :

(3×12=36)

17. Describe morphological, cultural and pathogenicity of enterice fever
 18. Discuss in detail the normal microflora of the human body.
 19. Write a note on mode of action of penicillin.
 20. Give an account of synthesis of nanostructures and its applications.
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PGIVS 1588 A-16
M.Sc. IVth Semester (CBCS) Degree Examination
Biotechnology
(Environmental Biotechnology)
Paper : SCT - 4.1

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Section 'A' has all compulsory questions
2. Answer B & C sections as per instructions.

Section - A**(10×2=20)**

Answer the following :

1. Biofilm
2. Rhizobium
3. Gene bank
4. Odorous compounds
5. Ecosystem
6. Biological treatment of water
7. Sludge blanket
8. Radio active pollutants
9. Macrophytes
10. Renewable energy

Section - BWrite any **four** of the following :**(4×6=24)**

11. Describe the pollution of milk
12. Explain substituted hydrocarbons
13. Write an account on Bioaugmentation

14. Explain the genetic testing
15. Treatment of water from dairy industry
16. Write an account on organic farming

Section - C

Answer any **three** of the following :

(3×12=36)

17. Describe in detail about water as a natural resource & its management.
 18. Explain the method of vermicomposting.
 19. Write an account on Genemutation
 20. Explain the role of microbes in decay & degradation of Biomass.
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