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PGIVS-N 1642 A-2K13/2013

M.Sc. IVth Semester Degree Examination

Biotechnology

(Medical and Nano Biotechnology)

Paper - SCT-4.1

(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

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

Section - A

Answer the following in brief :

(10×2=20)

- 1) Normal Flora
- 2) Tetanus
- 3) Abscesses
- 4) Antiviral drugs
- 5) Nystatin
- 6) Nanoparticles
- 7) Pyrolysis
- 8) Diarrhea
- 9) Prophylaxis
- 10) Biosensor

Section - B

Answer any **four** of the following :

(4×6=24)

- 11) Etiology of Malaria.
- 12) Chemical vapour deposition.
- 13) Application of phages in therapeutics.
- 14) Problems in drug sensitivity and drug resistance.
- 15) Viral immunology and host defences.
- 16) Recent trends in Nanobiotechnology

Section - C

Answer any **three** of the following :

(3×12=36)

- 17) Explain in detail about synthesis of nanostructures by employing chemical and physical methods.
- 18) Describe in detail on epidemiology and pathogenesis of syphilis.
- 19) Explain in detail about the cultivation and replication of viruses
- 20) Explain the mode of infection, infectious process and routes of transmission of microbes in the body.

Roll No. _____

[Total No. of Pages : 2

PGIVS 1600 A-2K14

M.Sc. IVth Semester (CBCS) Degree Examination

Biotechnology

(Medical and Nano Biotechnology)

Paper - HCT 4.2

(New)

Time :3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) Section A has all **compulsory** questions.
- 2) Answer **B** and **C** sections as per instructions.

Section - A

Answer the following in brief :

(10×2=20)

- 1) Immunotherapy
- 2) β - Haemolysis
- 3) Optochin test
- 4) Antiviral drugs
- 5) Drug Resistance
- 6) Nanowires
- 7) Tetanolysin
- 8) Polymyxins
- 9) H and O antigens
- 10) Aspergillosis.

Section - B

Answer any **four** of the following :

(4×6=24)

- 11) Virulence factors
- 12) Amoebiasis
- 13) Wassermann Reaction
- 14) Bacteriophages as therapeutic agents
- 15) Chemical synthesis of Nano particles
- 16) Photodynamic inactivation of viruses

Section - C

III. Answer any **three** of the following : (3×12=36)

- 17) Discuss in detail the structure and pathogeneity of HIV and preventive measures of the disease
- 18) Describe the concept and development of biosensors.
- 19) Explain the mode of action and mechanism of penicillin and streptomycin.
- 20) Give an account of the normal microflora of the human body.

Maximum Marks : 36

Time : 3 Hours

Instructions to Candidates:

- 1) Section A has all compulsory questions.
- 2) Answer B and C sections as per instructions.

Section - A

(10×2=20)

Answer the following in brief:

- 1) Immunotherapy
- 2) A - Haemolysis
- 3) Quinichin test
- 4) Antiviral drugs
- 5) Drug Resistance
- 6) Penicillins
- 7) Tetanospasmin
- 8) Polymyxins
- 9) H and O antigens
- 10) Aspergilliosis

Section - B

(4×6=24)

Answer any four of the following:

- 11) Virulence factors
- 12) Amoebiasis
- 13) Wassermann reaction
- 14) Bacteriophages as therapeutic agents
- 15) Chemical synthesis of Nano particles
- 16) Phosphorylation inactivation of viruses