PGIVS-N 1642 A-2R13

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: (10x2=20)

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

Answer any four of the following: \( (4 \times 6 = 24) \)

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: \( (3 \times 12 = 36) \)

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.
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) Tetanolsin
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

PGIVS 1600 A-2K14 /2014
(1) [Contd....]
III. Answer any three of the following: (3x12=36)

17) Discuss in detail the structure and pathogenicity 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.