

National Board of Examinations

Question Paper Name : DNB General Medicine Paper4
Subject Name : DNB General Medicine Paper4
Duration : 182
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0
Is Section Default? : No

Question Number : 1 Question Id : 32718745255 Consider As Subjective : Yes

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. a) What is targeted Nano medicine? What are smart drugs and how do they work? [2]
- b) The types of Nano carriers used in medicine. What are the clinical applications of Nano medicine? [2+2]
- c) Discuss recent advances and ethical issues related to smart drug design. [2+2]

Question Number : 2 Question Id : 32718745256 Consider As Subjective : Yes

- a) Classification of newer insulins. [3]
- b) What are the limitations of conventional insulin therapy? [3]
- c) Describe clinical advantages and safety considerations, and emerging technologies in insulin delivery. [4]

Question Number : 3 Question Id : 32718745257 Consider As Subjective : Yes

- a) What is bioterrorism and what are the common biological agents used in bioterrorism? [3]
- b) What are the clinical features and diagnosis of major bioterrorism-related infections? [3]
- c) How is bioterrorism prevented and controlled? What are the public health preparedness and response measures? [2+2]

Question Number : 4 Question Id : 32718745258 Consider As Subjective : Yes

- a) Define mountain sickness. Write the types of mountain sickness. [1+2]
- b) What is the pathophysiology and clinical features of mountain sickness? [3]
- c) How is mountain sickness managed? [4]

Question Number : 5 Question Id : 32718745259 Consider As Subjective : Yes

- a) What are the major health hazards associated with smoking? [3]
- b) What are the effects of smoking on different organ systems? [3]
- c) What are the available pharmacological and non-pharmacological measures for nicotine de-addiction? [4]

Question Number : 6 Question Id : 32718745260 Consider As Subjective : Yes

- a) Describe clinical manifestations and management of hemophilia. [3+2]
- b) Write about recent advances in the management of hemophilia. [5]

Question Number : 7 Question Id : 32718745261 Consider As Subjective : Yes

- a) Describe the classification, pathophysiology, and clinical features of snake envenomation. [5]
- b) Outline the principles of management of snake bite, including the role of antivenom therapy. [5]

Question Number : 8 Question Id : 32718745262 Consider As Subjective : Yes

- a) Recent guidelines suggested by National Tuberculosis Elimination Program (NTEP). [5]
- b) Newer antituberculosis drugs with their side effects. [5]

Question Number : 9 Question Id : 32718745263 Consider As Subjective : Yes

- a) Outline the mechanism of Chimeric Antigen Receptor (CAR)-T cell therapy. [5]
- b) Enumerate its indications, efficacy, and complications in hematologic malignancies. [5]

Question Number : 10 Question Id : 32718745264 Consider As Subjective : Yes

a) Enumerate the inclusion and exclusion criteria for IV alteplase (tPA) therapy in ischemic stroke. [5]

b) Discuss the principles, timing, and outcomes of mechanical thrombectomy. [5]