

National Board of Examinations

Question Paper Name : DNB General Medicine Paper1
Subject Name : DNB General Medicine Paper1
Duration : 182
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0
Is Section Default? : No

Question Number : 1 Question Id : 32718744052 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) Define hypertriglyceridemia and classify it according to fasting serum triglyceride levels. [2]
- b) Describe the genetic and secondary causes of hypertriglyceridemia, citing key molecular mechanisms. [3]
- c) Describe the role of coronary calcium scoring and CT angiography. [5]

Question Number : 2 Question Id : 32718744053 Consider As Subjective : Yes

- a) Explain the Frank–Starling mechanism of the heart and its clinical relevance in heart failure. [5]
- b) Describe the determinants of cardiac output and their regulation. [5]

Question Number : 3 Question Id : 32718744054 Consider As Subjective : Yes

- a) Draw and label a detailed cross-section of the midbrain at the level of the superior colliculus. [5]
- b) Describe the clinical features of major midbrain stroke syndromes. [5]

Question Number : 4 Question Id : 32718744055 Consider As Subjective : Yes

- a) Describe the physiologic and immunologic changes in pregnancy that predispose to infections. [5]
- b) Describe the general principles of antimicrobial use and contraindicated drugs during pregnancy. [5]

Question Number : 5 Question Id : 32718744056 Consider As Subjective : Yes

- a) Describe the genetic and molecular mechanisms involved in carcinogenesis. [5]
- b) Describe the role of oncogenes and tumor suppressor genes with suitable examples. [5]

Question Number : 6 Question Id : 32718744057 Consider As Subjective : Yes

- a) What is the composition and function of the fecal microbiota? [3]
- b) What is fecal microbiota transplantation (FMT) and what are the current indications and contraindications for FMT? [3]
- c) Describe the techniques used in FMT and future perspectives of fecal microbiota therapy. [4]

Question Number : 7 Question Id : 32718744058 Consider As Subjective : Yes

- a) What are incretins and their physiological roles? [2]
- b) What are their mechanisms of action? [2]
- c) Describe the types of incretin-based therapies. [2]
- d) What are the clinical benefits and what are the recent developments in incretin therapy? [4]

Question Number : 8 Question Id : 32718744059 Consider As Subjective : Yes

- a) Describe the sequence of cellular events in acute inflammation. [3]
- b) Describe the roles of cytokines and chemical mediators in inflammation. [3]
- c) How to manage cytokine storm? [4]

Question Number : 9 Question Id : 32718744060 Consider As Subjective : Yes

- a) Classify hypersensitivity reactions with examples. [5]
- b) Describe the immunopathogenesis of type III hypersensitivity and its clinical relevance. [5]

Question Number : 10 Question Id : 32718744061 Consider As Subjective : Yes

- a) Describe types of genetic mutations and their molecular consequences. [5]
- b) Explain the principles of next-generation sequencing (NGS) and its clinical applications. [5]