



ND-2006000101020001 Seat No. _____

First Year M. B. B. S. Examination

January - 2022

Physiology : Paper - 1

Time : Hours]

[Total Marks : 80

Instruction :

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Fill up strictly the details of signs on your answer book.

Name of the Examination : First Year M. B. B. S.

Name of the Subject : Physiology : Paper - I

Section No. (1, 2, ...): Nil

Subject Code No. : 2 0 0 6 0 0 0 1 0 1 0 2 0 0 0 1

Seat No. : [] [] [] [] [] [] [] [] [] []

Student's Signature

Section B (40 marks)

1. A 46 year old Obese male patient is brought to emergency medical room with perspiration, chest pain (radiating to left shoulder) which is relieved on rest. (1+ 6+3 =10)
- Identify the underlying clinical condition
 - Describe the blood supply to heart
 - Enumerate the investigations likely to be advised to this patient

2. Answer in Short (any 5 out of 6)

- Na⁺.K⁺ pump
- Functions of platelets
- Pernicious anaemia
- Anatomical dead space
- Neat, labeled diagram of a nephron
- myosin filament

(5 x 3 = 15)

3. Short notes (any 3 out of 4)

- Oxygen transport
- Counter current mechanism
- Functions of bile
- Negative feedback mechanism

(3 x 5 = 15)

Section C (40 marks)

4. Draw a well labelled diagram of oxygen dissociation curve. Describe in detail about oxygen uptake, delivery and transport in blood. Add a note on Haldane's effect. (3+5+2 = 10)

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[Contd...



5. Answer in Short (any 5 out of 6)

(5 x 3 = 15)

- a. A V nodal delay
- b. Herring Breuer reflex
- c. Mitochondria
- d. Latch phenomenon
- e. Respiratory membrane
- f. Plateau potential

6. Short notes (any 3 out of 4)

3 x 5 = 15

- a. Neuromuscular transmission
- b. GFR
- c. Erythroblastosis foetalis
- d. Cell mediated immunity

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[1030]