

Section A (50 Marks) SAQ

Que1.Short Answer Questions (Solve any 5 out of 6)

(5x3=15.00)

a

Enumerate the heat loss mechanisms in the body.Explain any one in detail.(1 + 2 marks)

b

Describe in short the Optic pathway of vision.

c

Define Action potential.Draw a neat labeled diagram of action potential in a nerve fibre.(1 + 2 marks)

d

Describe the functions of Liver.

e

Describe the clinical features, causes and treatment of Myxoedema.

f

Explain positive feedback mechanism with the help of an example.

Que2.Short Answer Questions (Solve any 5 out of 6)

(5x7=35.00)

a

Define Hemostasis. Describe the Intrinsic and Extrinsic pathways for Coagulation. (1 + 3 + 3 marks)

b

Describe transmission across neuromuscular junction. Add a note on Myasthenia Gravis. (4 + 3 marks)

c

Describe the Micturition reflex and its control. Add a note on Automatic bladder. (5 + 2 marks)

d

Describe the cardiovascular changes during moderate isotonic exercise.

e

Describe the events in Ventricular diastole.

f

Describe the composition and functions of Surfactant. (3 + 4 marks)

Section B (30 Marks) LAQ

Que3.Long Answer Questions(Solve any 1 Out of 2) :-

(1x15=15.00)

a

Define Blood Pressure. Mention its normal values.Enumerate and Describe short term regulatory mechanisms of blood pressure.(2+2+2+9 marks)

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b

Enumerate the ascending tracts. Describe in detail the pathway for pain. Add a note on referred pain. (3 + 9 + 3 marks)

Que4. Long Answer Questions (Solve any 1 out of 2)

(1 x 15 = 15.00)

a

Describe in detail the transport of oxygen in the body. Explain the Oxygen Haemoglobin dissociation curve with a neat labeled diagram. (7 + 5 + 3 marks)

b

Define and classify Reflexes. Describe the properties of Reflexes in details. (2 + 4 + 9 marks)