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Paper Code: MBBS -121

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M.B.B.S.**First Professional Examination, Jan 2022****Physiology – I***Time: Three Hours]**[Maximum Marks: 100*

Note: Attempt all questions. Use separate answer sheets for Section A & Section B. Parts of a question must be attempted in sequence. Draw well labeled diagrams wherever necessary.

MCQs (separate sheet will be provided)**20 Marks****Section –A**

1. A 45 year old male came to the medical OPD for regular check up of blood pressure. His BP was 170/100 mm Hg. He had no symptoms of giddiness and sweating.
 - (a) Define blood pressure and its components. [2
 - (b) Explain the role of baroreceptors in BP regulation. [10
 - (c) What is baroreceptor set point? [4
 - (d) Define essential hypertension. [4
2. Write short notes on – [6x4
 - (a) Mismatched blood transfusion reactions
 - (b) Neural regulation of respiration
 - (c) Pathophysiology of Peptic ulcer
 - (d) Characteristic features of Iron deficiency anemia

Section –B

1. Give physiological basis of – [3x4
 - (a) Role of Aspirin in prevention of Myocardial infarction
 - (b) Cardiac muscle can not be tetanized
 - (c) Asthma attacks are more common early in the morning
 - (d) Patients with kidney disease become edematous
2. Write short notes on –
 - (a) Heart Block [5
 - (b) Micturition reflex [5
 - (c) Autoimmune disorders of Neuro-muscular junction [5
 - (d) Role of dietary fibres [4
3. Write briefly about Doctor - Patient relationship. [5

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M.B.B.S.**First Professional Examination, Jan 2022****Physiology – II***Time: Three Hours]**[Maximum Marks: 100*

Note: Attempt all questions. Use separate answer sheets for Section A & Section B. Parts of a question must be attempted in sequence. Draw well labeled diagrams wherever necessary.

MCQs (separate sheet will be provided)

20 Marks**Section –A**

1. A 48 year old man comes to his physician complaining of a drooping eyelid and facial twitching on the left side of his face. The patient first noticed the symptoms about 6 hours ago, but they have continued to worsen. He is now having trouble tasting and is drooling from the left corner of his mouth. The patient has not had any neurological problems in the past, although he did have the flu 3 weeks ago.
 - (a) What is your provisional diagnosis? [2
 - (b) What investigations or tests would you like to do in this patient? [5
 - (c) What is the likely explanation of these findings? [5
 - (d) What are the differences between the findings observed in upper motor and lower motor neuron lesion of the nerve involved in the question? [4
2. Define a hormone. Outline the classification of hormones. Discuss the various mechanisms of action of different classes of hormones. [2+4+8
3. Answer the questions based on ECE - [5x2
 - (a) A teenage boy is diagnosed with Type I Diabetes mellitus. How is Type I Diabetes different from Type II Diabetes? Explain how Insulin is released from the beta cells of Pancreas in response to Glucose.
 - (b) A 70 year old woman, who presents to the emergency department with kidney stones, abdominal pain and muscle weakness, is found to have hyperparathyroidism. What are the functions of Parathormone and how is it regulated?

Section -B

1. Give physiological basis of - [5x3]
 - (a) Glucagon is a hormone of energy release
 - (b) Adrenal medulla is not essential for life
 - (c) Tests for ovulation

 2. Write short notes on - [5x3]
 - (a) Cerebellar function tests
 - (b) Neuromuscular junction
 - (c) Lesions of visual pathway

 3. What do you understand by autonomy of a patient? Explain with the help of an example. [10]
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