



INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO
DEGREE OF BACHELOR OF UNANI MEDICINE AND SURGERY
LEVEL II – FIRST SEMESTER SUPPLEMENTARY EXAMINATION
✓ SEPTEMBER- OCTOBER 2020

EXAMINATIONS
Institute of Indigenous Medicine
22 SEP 2020
University of Colombo

AS2102 – PHYSIOLOGY III

Date: 22.09.2020
Time: 9.45 am – 12.15 pm

Index No

Answer all questions.

Part I - Structured Questions

1.

1.1 Write the definition of hormone

(01 mark)

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1.2 Name two mechanisms of hormone release

(01 mark)

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1.3 Write the functions of the following hormones

(04 marks)

a. Growth hormone

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b. ADH

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c. Insulin

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d. Glucagon

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1.4 Name the types of interactions between hormones with one example for each type (02 marks)

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2.

2.1 Name main lobes of cerebral cortex and their main functions (02 marks)

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2.2 Define the term Multiple Sclerosis (01 mark)

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2.3 Briefly describe the pathophysiology of Multiple sclerosis

(03 marks)

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3.

3.1 What is meant by Glycolysis?

(01 mark)

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3.2 List out the four main functions of protein

(02 marks)

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3.3 Briefly discuss the steps of digestion and absorption of carbohydrates

(03 marks)

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4.

4.1 What is jaundice? (02 marks)

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4.2 List four causes for increased bilirubin level in the blood (02 marks)

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4.3 Name the types of jaundice with at least one example for each type (02marks)

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4.4 Explain "Gilbert Syndrome (02 marks)

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5.

5.1 What is Parkinson's disease?

(02 marks)

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5.2 How will you explain the gait in Parkinson's disease

(02 marks)

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5.3 How the drug Levodopa acts in this disease?

(02 marks)

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6.

6.1 Medulla Oblongata contains control centers for many subconscious activities. Write four of them.

(02 marks)

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6.2 What are the main divisions of the Autonomic Nervous System? (02marks)

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6.2 List out four clinical signs and symptoms of seventh nerve palsy. (02 marks)

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Part II – Essay Questions

I

1.1 Discuss the functions of corticospinal (pyramidal) tract (08 marks)

1.2 Briefly explain the following clinical sings

- I. Babinski sign (04 marks)
- II. Spasticity (04 marks)
- III. Clonus (04 marks)

2.

2.1 Define the term neuromuscular junction. (02 marks)

2.2 Explain the sequence of events that happen at the neuromuscular junction when an action potential reaches. (10 marks)

2.3 The disease “myasthenia Gravis”. How this occurs in some individuals? (08 marks)
