

INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA
BAMS LEVEL I - SECOND END SEMESTER EXAMINATION – MARCH 2015
SHAREERA KRIYA (PHYSIOLOGY) - II

COURSE CODE – AS 1202

Time: 2 ½ hours
9.45 a.m. – 12.15 p.m

Answer all questions.

Index No

Part I - Structured Questions

1. Write short notes on the following events in the cardiac cycle.

a. Isometric relaxation of the Left Ventricle (03 Marks)

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b. Isometric contraction of the Left Ventricle (03 Marks)

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c. Contraction of the Left Atrium (01 Mark)

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2. a. List three (03) functions of the Growth Hormone. (03 Marks)

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b. Briefly explain the clinical conditions/diseases that occur due to Growth Hormone deficiency during the following life stages.

i .Childhood

(02 Marks)

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ii. Adulthood

(02 Marks)

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3. Write short notes on the following effects of interaction between hormones. Give one example for each effect.

a. Synergistic effect

(02 Marks)

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b. Permissive effect

(02 Marks)

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c. Antagonist effect

(02 Marks)

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4. Give reasons for the followings.

a. Red cells size in iron deficiency is smaller than normal (Microcytic) but that of B₁₂ deficiency is larger than normal (Macrocytic) (02 Marks)

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b. Secretion of breast milk occurs only after the birth of the baby but not during the normal pregnancy. (02 Marks)

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c. Arteriosclerosis causes an increase in systolic systemic blood pressure and a decrease in diastolic blood pressure. (02 Marks)

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5. a. List male and female SEX hormones. (03 Marks)

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b. Explain the control of their synthesis. (04 Marks)

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6. Explain the physiological basis of the occurrence of the followings.

a. Second heart sound

(03 Marks)

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b. Mitral stenosis murmur

(04 Marks)

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Part II – Essay Questions

1. Describe the regulation of **adrenocortical hormones synthesis and release.** (20 Marks)

2. Explain how systemic blood pressure is maintained within the normal physiological range. (20 Marks)

21.04.2015