

INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA
BUMS LEVEL I - FIRST SEMESTER EXAMINATION – JUNE 2015

PHYSIOLOGY- I
COURSE CODE - AS 1102

INDEX NO:

Time: 2 ½ hours
1.45. p.m. – 4.15 p.m.

Answer all questions.

Part I - Structured Questions

01.

A

I. Give the steps of mechanism of inspiration (1.5 Marks)

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II. Describe the mechanism of expiration (2.25 Marks)

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III. What is artificial respiration? (0.5 Marks)

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.....

B

I. Describe how the inspiration and expiration are controlled by brain (2.5Marks)

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II. Describe how the respiratory rate controlled by receptors (02 Marks)

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.....
.....

C

I. What is respiratory volume? (0.25 Marks)

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II. What is Tidal Volume? (0.25 Marks)

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III. What is Inspiratory Reserve Volume? (0.25 Marks)

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IV. What is Residual Volume? (0.25 Marks)

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V. What is Vital Capacity? (0.25 Marks)

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02.

A

I. What are the 3 important functions of Angiotensin II? (0.5x3 Marks)

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II. What include in Chemical examination of a urine sample? (0.5 Marks)

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III. What you look in a Microscopic examination of urine sample? (0.5 Marks)

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IV. Give 4 normal values of urine that we always look for (0.5x4 Marks)

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V. Give 4 urine continents that can be tested by dipsticks (0.5x4 Marks)

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B.

I. What is Proteinuria

II. What is haematuria.....

III. What is Ketonuria.....

IV. What is Glucosuria.....

(0.5x4 Marks)

C.

I. What is polyuria.....

II. What is oliguria.....

III. What is anuria.....

(0.5x3 Marks)

Part II - Essay Questions

- 01.
- a. List the functions of the kidney (05 Marks)
 - b. Draw and name the parts of a nephron (03 Marks)
 - c. Give the parts of the renal tubules (02 Marks)
 - d. List the functions of a nephron in a diagram (04 Marks)
 - e. List the paranasal sinuses and mention the functions of them (06 Marks)
- 02.
- a. What is cyanosis? (02 Marks)
 - b. What are the types of cyanosis? (04 Marks)
 - c. What is oedema? (02 Marks)
 - d. What are the types of oedema and explain with an example in each type (06 Marks)
 - e. Explain Renin-angiotensin-aldosterone Pathway (06 Marks)
- 03.
- a. What are the compositions of human body? [] (03 Marks)
 - b. How water distributed in body (in %)? (05 Marks)
 - c. Give the composition of body fluids in detail (05 Marks)
 - d. Explain the formation of body fluids (05 Marks)
 - e. Draw an oxygen dissociation curve (02 Marks)

22.06.2015
