

**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA**  
**BUMS LEVEL 1 SECOND SEMESTER EXAMINATION – APRIL 2018**

**PHYSIOLOGY - II**  
**COURSE CODE – AS 1202**

INDEX NO:

**Time: 2 1/2 hours**  
**1.45 p.m. – 4.15 p.m**

**Answer all questions.**

**Part I - Structured Questions**

01.(A) 1. What is cardiac cycle?

(01 Mark)

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11. Draw the electrical conduction pathway in cardiac cycle?

(01 Marks)

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111. What are the five phases in cardiac cycle?

(02 Marks)

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(B) 1. List five diseases can be diagnosed with ECG?

(1.5 Marks)

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11. What is the phase in the cardiac cycle represents the "P" wave in ECG?

(01 Mark)

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111. In which respiratory condition, ECG would shows tall P waves?

(01 Mark)

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(C) 1. What is sinus bradycardia?

(01 Mark)

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11. List five causes for sinus bradycardia?

(1.5 Marks)

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2. (A) Explain the **physiological basis** in the following conditions ?

1. Jaundice in new born healthy babies

(1.5 Marks)

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11. Hypersplenism in congenital Spherocytosis

(01 Mark)

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111. Recurrent sore throat in leukaemia?

(1.5 Marks)

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(B)1. What is eosinophilia ?

(01 Mark)

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11. Name three clinical conditions , would cause the above condition?

(1.5 Marks)

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(C) 1. What is haemolyticJaundice?

(01 Mark)

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11. In what type of jaundice , bile will appear in the urine?

(01 Mark)

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111. Give five causes for hemolytic jaundice?

(1.5 Marks)

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## Part II - Essay Questions

01. Write short notes on the followings

1. Cor-Pulmonale (05 Marks)
2. Megaloblasticanaemia (05 Marks)
3. Cushing syndrome (05 Marks)
4. Secondary hypo adrenalism (05 Marks)

02. A. Explain the role of Parathyroid hormone in maintaining plasma calcium (10 Marks)

B. 65 year old female who underwent total thyroidectomy , presented with perioral numbness and tingling sensations in both hands. On examination, while applying BP cuff to left upperlimb, 4<sup>th</sup> and 5<sup>th</sup> fingers underwent flexed position.

1. Explain the reasons for her clinical problems (06 Marks)
2. What are the other clinical examinations, will support your above reason (04 Marks)

03. Explain the physiological basis of the following problems

1. Orthostatic hypotension in a patient with chronic use of steroids (05 Marks)
2. Recurrent skin ulcers in a patient with leukaemia (05 Marks)
3. Dark coloured urine in a patient with congenital Spherocytosis (05 Marks)
4. Tachycarida in a patient with acute bleeding (05 Marks)

21.05.2018