

**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA**  
**BUMS LEVEL I – FIRST SEMESTER EXAMINATION – JULY 2016**  
**PHYSIOLOGY - I**  
**COURSE CODE – AS 1102**

Time: 2 ½ hours  
26.07.2016  
1.45 p.m. – 4.15 p.m

Index No

Answer all questions.

**Part I - Structured Questions**

1.

i) a. What is oedema?

(0.5 Marks)

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b. What are the types of oedema ?

(01 Mark)

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c. What is Pitting oedema?

(0.5 Marks)

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d. How do you elicit oedema

(01 Mark)

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.....

e. Give 3 causes of pitting oedema

(1.5 Marks)

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.....

ii) a. What is dehydration? (0.5 Marks)

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b. Give 3 causes of dehydration (1.5 Marks)

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c. What are the types of dehydration? (01 Mark)

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d. Give 3 clinical signs of moderate dehydration (1.5 Marks)

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e. What are the fluids will you use to rehydrate a **severely dehydrated child**? (01 Mark)

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2)

i) Mentioned the role of;

a. Salivary amylase (0.5 Marks)

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b. Pancreatic amylase

(0.5Marks)

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c. Sucrase, maltase, and lactase

(1.5Marks)

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d. Mention the role of liver in maintain blood glucose

(1 Mark)

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e. How  $\text{Na}^+$  helps in glucose absorption?

(1 Mark)

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ii ) a. What are the main lipids in our diet?.

(1 Mark)

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b. What are the types of fatty acids?

(1 Mark)

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.....

c. Why emulsification is needed in lipid digestion?

(0.5 Marks)

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d. What is Lipoproteins? (0.5 Marks)

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e. Give the clinical benefits of HDL (2.5 Marks)

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### Part II – Essay Questions

1.)

- i. Define hypoxia, hypoxemia (05 Marks)
- ii. List the types of hypoxia (05 Marks)
- iii. Explain each type of hypoxia (06 Marks)
- iv. List the indications for oxygen therapy (04 Marks)

2.)

- i. Explain the parts of nose (04 Marks)
- ii. Explain shortly the functions of ;
  - a. Conchae (02 Marks)
  - b. Olfactory system (02 Marks)
  - c. Bowman's glands (02 Marks)
- iii. Name the paranasal sinuses (05 Marks)
- iv. List the functions of paranasal sinuses (05 Marks)

3.)

- i. Define balance diet (04 Marks)
- ii. Explain the components of balance diet and their role (06 Marks)
- iii. What is BMI? (04 Marks)
- iv. Why should we maintain BMI (06 Marks)

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