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University of Ruhuna - Faculty of Medicine
Allied Health Sciences Degree Programme
B.Sc. Nursing Degree Programme
2nd End Semester Examination

BHS 4 - Pathology
SEQ paper

August 2014

Duration: one (1) Hour

Index Number

1. A 17 year-old boy in a semi-conscious state was admitted to the medical casualty ward. He has been an insulin dependent diabetic patient for the past five years. The initial in-ward tests gave the following results.

Urine

| | |
|---------------------|-----------------------|
| Reducing substances | 4+ |
| Ketones | 4+ |
| Capillary Glucose | 32 mmol/L (576 mg/dL) |

1.1 What is the likely diagnosis? (10 marks)

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1.2 Name the in-ward test performed to detect reducing substances. (5 marks)

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1.3 List two (2) other substances which could give positive results in the test named for 1.2. (10 marks)

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1.4 List **four (4)** other general biochemical tests that should be performed for this patient using venous blood and state the suitable container for each of those tests. (20 marks)

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1.5 List **five (5)** essential information that should be written in request forms sent to the laboratory with those specimens. (10 marks)

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1.6 Interpret the arterial blood gas analysis report obtained for this patient. (15 marks)

Arterial blood

| | | |
|------------------|-----------|---------------|
| pH | 7.11 | (7.35 – 7.45) |
| pO ₂ | 98 mmHg | (83-100) |
| pCO ₂ | 20 mmHg | (35-40) |
| Bicarbonate | 12 mmol/L | (22-29) |

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1.7 List two (2) important precautions that should be observed in collection and transport of the specimen for arterial blood gas analysis. (10 marks)

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1.8 The Consultant requested lipid profile and urine for albumin (micro albumin) tests before the patient was discharged. Describe the instructions you would give the patient before these tests were done and specimen tubes/containers used for each test. (20 marks)

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2.

2.1. List five (5) causes of acute inflammation.

(10 marks)

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2.2. What is acute inflammation?

(15 marks)

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2.3. What are the cardinal features of acute inflammation?

(10 marks)

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2.4 Briefly describe the pathological basis of cardinal features of acute inflammation

(25 marks)

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2.5 Describe the sequale of acute inflammation.

(20 marks)

[Dotted lines for writing]

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2.6 What are the characteristic features of chronic inflammation?

(20 marks)

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