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**University of Ruhuna - Faculty of Medicine**

**Allied Health Sciences Degree Programme**

**B.Sc. Nursing Degree Programme**

**2<sup>nd</sup> End Semester Examination**

**BHS 2 - Microbiology and Parasitology**

**SEQ paper**

**August 2014**

**Duration: one (1) hour**

**Index Number .....**

**Microbiology**

**1.**

**1.1. A 30 year old man is suspected of having bacterial meningitis.**

**1.1.1. Give three (03) specific clinical features suggestive of meningitis. (15 marks)**

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**1.1.2. List three (03) possible causative agents of bacterial meningitis in this patient. (15 marks)**

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**1.1.3. What are the other different types of meningitis and give one causative agent for each. (15 marks)**

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1.2. The Physician in charge wants to perform a lumbar puncture to obtain a CSF sample for investigations.

1.2.1. List the number and types of containers you need in this procedure. (15 marks)

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1.2.2. Name the investigations that will be requested with the containers mentioned above (1.2.1). (20 marks)

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1.2.3. Describe how you would transport these containers to the laboratory. (10 marks)

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1.2.4. Explain what you would do if there is a delay in sending it to the laboratory.  
(10 marks)

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Index Number .....

**Parasitology**

1. A 32 year-old mother having twin pregnancy in her first trimester presented with an episode of high fever with chills and rigors. Her thin blood film revealed schizonts of a *Plasmodium* parasite.

1.1 What questions would you like to ask during the history taking of this patient to confirm the clinical diagnosis? (10 marks)

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1.2. List important clinical signs that you would like to elicit during examination of this patient to identify complications due to malaria. (20 marks)

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1.3. Draw a correctly labeled diagram of the above diagnostic stage. (10 marks)

1.4. Draw correctly labeled diagrams of the other stages of same parasite. (20 marks)

1.5. Explain the parasitological basis of the following disease management steps.

1.5.1. Assessment of fever pattern using a QHT in above mentioned mother. (20 marks)

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**1.5.2. How do you plan the follow-up of the above mentioned mother's illness.**  
**(20 marks)**

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