



University of Ruhuna

Department of Nursing

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

NMP-1224- Microbiology & Parasitology

SEQ Paper –Part A

February 2018

Duration: Thirty (30) minutes

Index number:-.....

Part A

1.1.1 A 54 year old female is admitted to the hospital due to cellulites of her left leg.

1.1.2 Give **three (03)** typical clinical features of cellulitis. (15 marks)

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1.1.3 Name **two (02)** possible bacteria causing cellulites in this patient. (10 marks)

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1.1.4 Briefly describe how this infection occurs in this patient. (10 marks)

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1.1.5 Name **one (1)** antibiotic that can be effectively used in the treatment of this condition. (5 marks)

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1.2 The Physician need to perform a blood culture for this patient.

1.2.1 List the important steps when collecting a blood sample for culture. (40 marks)

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1.2.2 What is the required volume of blood to be drawn from this adult patient? (10 marks)

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1.2.3 How do you store this blood sample taken for culture until dispatch to the laboratory?  
(10 marks)

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SEQ Paper -Part B

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Duration: Thirty (30) minutes

Index number:-.....

Part B

2.1.1 A 5 year old child is suspected to be having meningitis.

2.1.2. Name an important investigation procedure to be performed to confirm the diagnosis. (5 marks)

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2.1.3 Briefly describe how you are going to arrange containers to perform the above investigation procedure. (15 marks)

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2.1.4 List the investigations that will be carried out using the collected specimen/s in the above procedure. (25 marks)

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SEQ Paper –Part C

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Duration: Thirty (30) minutes

Index number:-.....

Part C

1. A 8 year-old boy was admitted to the ward complaining of insomnia and severe pruritus ani. Mother complains as child is restless at night and gives a history of a child in the same school that had the same features. Medical officer diagnose that the child is having *Enterobiusvermicularis* infection.

1.1 What are the modes of transmission of the disease (10 marks)

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1.2 Provide health education to the mother on prevention of transmission. (30 marks)

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1.3 Name one medication which can be prescribed by the medical officer to treat this child. (10 marks)

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1.4 What is the causative parasite of lymphatic filariasis? (10 marks)

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1.5 What is the intermediate host of the lymphatic filariasis? (10 marks)

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1.6 List three (3) breeding places of the vector of the lymphatic filaria. (10 marks)

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1.7 List five (5) interventions to manage lymphedema of patients with lymphatic filaria. (20 marks)

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SEQ Paper –Part D

Duration: Thirty (30) minutes

Index number.....

Part D

1. A 5 year-old boy presented with several episodes of passage white worm segments. Examination of segment extracts showed hexacanth embryo with a polar projection.

1.1 What would be the most likely diagnosis? (10 marks)

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1.2 List possible parasitic infections where white worm segments are seen in fresh faeces. (20 marks)

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

1.4 Name and draw correctly labelled diagrams of the other parts of a similar parasite. (20 marks)

