



Index No:

UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES (2nd) DECEMBER 2020
Parasitology

Date: 15.12.2020

Time allotted: 02 hour

Answer all questions within the space provided

- 1 Mosquitoes play a major role in transmitting diseases to human
- 1.1 Name THREE species of mosquitoes that can transmit diseases to human and mention ONE disease that can be transmitted by each of the mosquito (10 Marks)

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- 1.2 Among the diseases that you have mentioned in 1.1, the Parasitic and the Helminthic diseases were eliminated from this country
- What were the activities that would have made this achievement possible?

- 1.2.1 Elimination of the parasitic disease (25 Marks)

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1.2.2 Elimination of the helminthic disease

(25 Marks)

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1.3 What are the possible reasons that have made the viral disease transmitted by the mosquitoes difficult to eliminate from the country?

(25 Marks)

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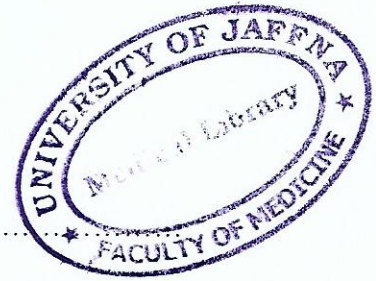
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1.4 What are the challenges that the health authorities face in controlling mosquitoes?

(15 Marks)

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2 Intestinal protozoans can cause diarrhea in human

2.1 Name ONE intestinal protozoan that can cause blood and mucous diarrhea (dysentery) in human (05 Marks)

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2.2 Outline the pathophysiology of the condition (dysentery) that can be caused by the parasite you have mentioned in 2.1 (25 Marks)

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2.3 What are the risk factors that can facilitate the infection of the parasite you have mentioned in 2.1? (35 Marks)

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2.4 What are the characteristic features that could help to differentiate the dysentery caused by the above protozoan parasite mentioned in 2.1 from that of a bacterial origin?

(35 Marks)

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3 Skin clinics encounter variety of parasitic skin conditions

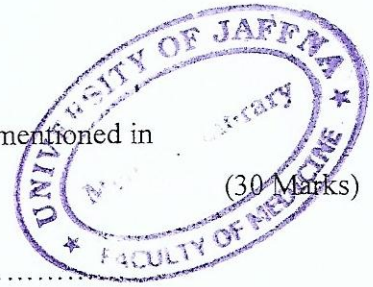
3.1 Name ONE skin condition that can be caused by the following category of parasites

(15 Marks)

Protozoans.....

Animal helminthes.....

Ecto parasites.....



3.2 Outline the clinical presentation of each of the condition you have mentioned in

3.1

(30 Marks)

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3.3 Outline the treatment regime of each of the condition you have mentioned in 3.1

(30 Marks)

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3.4 What are the precautionary measures to be adopted in order to prevent the re infestation of the ecto parasite you have mentioned in 3.1? (25 Marks)

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4 4.1 Name the intestinal worms which could cause anaemia in human (05 marks)

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4.2 What are the investigations that you will perform to differentially identify the parasitic infections which you have mentioned in 4.1? (10 marks)

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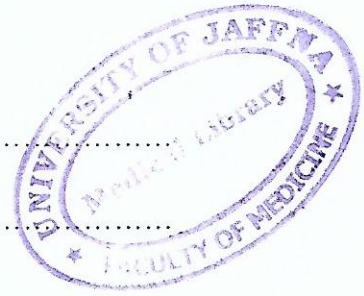
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4.3 Indicate three major differences between the life cycle of the parasites which you have mentioned in 4.1 (10 marks)

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4.4 What are the measures that you will recommend to eliminate the above parasitic conditions from the community? (20 marks)

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4.5 Define the term 'Autoinfection' with regard to the parasitic worm infection (10 marks)

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4.6 Give TWO examples for the condition which you have mentioned in 4.5 (10 marks)

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4.7 Indicate the current guidelines for de-worming of school children living in the following part of the country

4.7.1 The districts that are having high risk for soil transmitted helminth infections

(10 marks)

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4.7.2 The districts that are having low risk for soil transmitted helminth infections

(10 marks)

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4.8 Name the medication and other supplements to be given while implementing the de-worming programme for the school children

(15 marks)

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5. 5.1 List the seven venomous snakes in Sri Lanka

(15 marks)

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5.2 Which of the above snakes shows neurological manifestation during envenomation? (10 marks)

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5.3 How will you clinically differentiate the envenomation caused by the snakes which you have mentioned in 5.2 (20 marks)

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5.4 What is the antivenom currently used in the treatment of snakebite in Sri Lanka? (05 marks)

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5.5 Name the venomous snakes for which the antivenom which you have mentioned in 5.4 is effective (10 marks)

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5.6 Name the venomous snakes in Sri Lanka for which the antivenom which you have mentioned in 5.4 is ineffective (10 marks)

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5.7 Indicate the possible reasons for the anaphylactic reaction during the administration of the above antivenom in Sri Lanka (15 marks)

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5.8 What are the first aid measures could be employed for snake bite victim in Sri Lanka ? (15 marks)

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