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1412/313 PARASIT June/July Time: 3 ho	201	3					rion)				Date				<u>. 4. 12.</u>	
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Write your Sign and w This paper Answer AL Each quest Write your Candidates Section A	nam rite con L th ion t	ne and the de sists of the que in sec wers t	l inde ate of TW estion. tion A	x nur exan O se s fron A car spac	nber nina ction sec ries es pr	r in th tion i ns; A ction . 4 ma rovide	ne spa n the and l A and rks w ed in	spaces B. d any chile of this of	es pro TW(each quest	ovide O que quesi ion pe	d abo estior tion i aper.	ove. is froi n sec				20 marks.
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Score
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Section B			* · · · · · · · · · · · · · · · · · · ·	·		:		, . , .				. 14				
Question Marks		16	17	18		19	Tota Scor							GRA FOT	•	
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This paper consists of 16 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

SECTION A (60 marks)

Answer ALL questions in this section.

		ne the following terms:	
	(i)	Mechanical vector.	(1 mar
****	-		
	(ii)	Intermediate host.	(1 mari
	····		
(b)	(i)	the infective stage of the following parasites: Trichomonas vaginalis;	(1 mark
	(ii)	Trypanosoma cruzi.	(1 mark
overni	ght fro	nen from a patient suspected of malaria infection m Kisumu county to Kenyatta National Hospita er drawing blood from the patient.	1. Describe the proper care of the
overni	ght fro	m Kisumu county to Kenyatta National Hospita	1. Describe the proper care of the
overni	ght fro	m Kisumu county to Kenyatta National Hospita	requires to be transported 1. Describe the proper care of the (4 marks)

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		* •
(a)	State the principle behind zinc sulphate concentration technique.	(2 mar
		·
		
	•	
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(b)	For each of the following parasites, state the most suitable concen	tration technique to
(b)	For each of the following parasites, state the most suitable concent be used in parasite identification. (i) Strongyloides stercoralis	tration technique to
(b)	For each of the following parasites, state the most suitable concent be used in parasite identification.	tration technique to
(b)	For each of the following parasites, state the most suitable concent be used in parasite identification.	tration technique to
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(b)	For each of the following parasites, state the most suitable concent be used in parasite identification. (i) Strongyloides stercoralis	(2 ma
	For each of the following parasites, state the most suitable concent be used in parasite identification. (i) Strongyloides stercoralis (ii) Ascaris lumbricoides.	
-	For each of the following parasites, state the most suitable concent be used in parasite identification. (i) Strongyloides stercoralis (ii) Ascaris lumbricoides.	(2 mai

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Describe the inicroscopic appearance of nookworm eggs.	(4 mark
	-
State measures of prevention and control of <i>Taenia saginata</i> infection.	(4 marks
	à-
Outline using a flow diagram the life cycle of Onchocerca volvulus.	(4 marks)
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Match each ext	ernal parasite with it	s approp	riate order.	7	· · · · · · · · · · · · · · · · · · ·	(4
Match each ext		s аррг ор	riate order.	7		(4
Match each ext	ernal parasite with it	s approp	riate order.	7	-	(4
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Match each ext		s approp	oriate order.	7		(4
Match each ext		s approp	oriate order.	7		(4
Match each ext	Order	s approp	Parasite	7		
(i)	Order Diptera	(a)	Parasite bedbugs			
(i) (ii)	Order Diptera Hemiptera	(a) (b)	Parasite bedbugs Sucking lice			
(i)	Order Diptera	(a)	Parasite bedbugs	7		

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(a)	Name	e the three types of lice pests.	$(1\frac{1}{2} \text{ ma})$
		· · · · · · · · · · · · · · · · · · ·	
(b)	(i)	Name the causal agent of epidemic typhus.	$\left(\frac{1}{2}\right)$ ma
	(ii)	Explain how lice transmit epidemic typhus.	. (2 ma
State a	ny tw o	o advantages and disadvantages of Flemming's fluid as a c	cytological fixative. (4 ma
State a		o advantages and disadvantages of Flemming's fluid as a c	cytological fixative. (4 ma
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State a		o advantages and disadvantages of Flemming's fluid as a c	cytological fixative. (4 mai

sectioning.	(4 marks

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Describe fixing of a papanicolaou smear.	(4 marks
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State any four characteristics of an ideal mounting media.	(4 marks)
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	methylene blue staining of sputum specimen for cytological observation.	(4 marks

Name:		
,		
(b) 1	Four clearing agents; Four dehydrating agents permanent tissue preparation.	(4 mark
(b) 1	Four dehydrating agents	(4 marks
(b) 1	Four dehydrating agents permanent tissue preparation.	
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SECTION B (40 marks)

Answer any TWO questions from this section.

16.	(a)	Outline Xenodiagnosis of the Chaga's disease.	(8 marks)
	(b)	State any seven measures to prevent and control visceral leishmaniasis.	(7 marks)
	(c)	Outline the concentration technique in laboratory diagnosis of <i>Paragonimus Westermani</i> .	(5 marks)
17.	(a)	Differentiate the morphological features of Wuchereria bancrofti from those Brugia Malayi.	of (5 marks)
	(b)	Outline the transmission and life cycle of Trypanosoma rhodesiense.	(10 marks)
	(c)	Draw a labelled diagram of a trophozoite of Balantidium coli.	(5 marks)
18.	(a)	State any two advantages and disadvantages of decalcification by the use of EDTA.	(4 marks)
	(b)	(i) Name the ingredients of glycerine Jelly aqueous mountant.	(4 marks)
		(ii) Explain how the above aqueous mountant is prepared and used.	(6 marks)
	(c)	Draw and name any three cross-section (profile) of microtome knives.	(6 marks)
19.	(a)	Inspite of correct attachment technique of sections on slide, a Histologist not sections become partly or completely detached from slides as staining process progressed.	
		(i) State three possible causes of the above observation.	(3 marks)
		(ii) Explain the preparation of Mayers egg albumin used as adhesive mate sections.	erial for (7 marks)
	(b)	Explain the use of Perls' Prussian blue staining method.	(4 marks)
	(c)	State any six functions of epithelium tissues.	(6 marks)