



Question 1 Answer all questions in the space provided Index number		24 January 2024 10.30 a.m. to 12.30 p.m. (2 hours)	
	35-year-old male presented to the STD (sexually tethral discharge of 3 days duration.	ransmitted diseases) clinic complaining of	
1.1	What is the most likely clinical diagnosis?	(05 marks)	
1.2	What are the two (2) most likely causative pathoge	ns? (10 marks)	
1.3	List three (3) microbiological investigations that wo in 1.1.	uld confirm the clinical diagnosis mentioned (15 marks)	
1.4	Outline the important steps in the collection and trainmentioned in 1.3.	nsport of the specimen for the investigations (30 marks)	

Гest	Expected results	
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i.		
ii.		
• •	ar agono recommendada in are empirical decama	(10 marks)
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	i. ii. ame two (2) antimicrobi	i. ii. ame two (2) antimicrobial agents recommended in the empirical treatme





Que	estion 2	24 January 2024
Ans	swer all questions in the space provided	10.30 a.m. to 12.30 p.m. (2 hours)
Inde	ex number	Category
	Scenarios related to the management of infectious di control are given below.	seases including infection prevention and
2.1	A medical student developed a maculopapular rash	suspected of measles.
2.1.1	State the causative agent.	(02 marks)
2.1.2	State how this condition could be transmitted to other	rs. (06 marks)
2.1.3	List two (2) factors that would help to assess the sus for this infection.	ceptibility of close contacts of this student (08 marks)
2.1.4	Outline the measures that can be adopted to control	
	community.	
2.1.5	. State how the immunization against measles is	provided in the National Immunization
	Programme in Sri Lanka.	(09 marks)
	Name of vaccine	
	Type of vaccine	
	Age at which immunization is given	

2.2. A single deep bite with free flawing of blood on the hand in a child bitten by a stray dog.						
2.2.1.	State the type of exposure and category giving reasons.					
		Туре	Reasons			
	Exposure					
	Category					
2.2.2.	Outline the initia	ıl management o	f this child before admission to a hospital.	(09 marks)		
¥				•		
2.2.3	Outline the spec	cific treatment of	this child including the route, dose and schedule). (16 marks)		
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3	***************************************	****************************				
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	In	dex No:
2.3. P	reparation of contaminated theater linen used in sur	gery for reuse.
2.3.1	State how the contaminated linen are decontaminated.	(05 marks)
	.,,.,,	
2.3.2	State how the decontaminated linen is sterilized and m	
		(08 marks)
	······································	
2.3.3	State how you would monitor the efficacy of the sterili	ization process mentioned in 2.3.2 giving
¥	examples.	(09 marks)
		••••••
2.3.4	Outline how the sterile linen is stored in the theater un	,





Question 3

Answer all questions in the space provided

24th January 2024 10.30 a.m. to 12.30 p.m. (2 hours)

Inde	x number	
3.1		
3.1.1	Name three (3) antibiotics in the aminoglycoside group.	
3.1.2	Outline the mechanism of action of aminoglycosides.	(04 marks)
3.1.3	List three (3) clinical conditions in which aminoglycoside drugs are effectively use	d. (06 marks)
3.1.4	List three (3) bacterial pathogens against which aminoglycosides drugs are effect	S A List twee
	00 00 00 00 00 00 00 00 00 00 00 00 00	Lesselland and S
3.1.5.	List two (2) bacterial pathogens for which the aminoglycosides drugs are not effe	(04 marks)
3.1.6.	Write two (2) adverse events of aminoglycoside group of antibiotics.	(04 marks)

3.2.					
3.2.1.	Define active immuniza				(05 marks)
					•••••••
3.2.2.	State the methods of ac	equiring active imr	munization.		(04 marks)
3.2.3.	Complete the table on t	he pentavalent va	accine in the	National Immunization Pro	gramme (NIP) (15 marks)
	Components in the vaccine	Type of vacc	ine	Protection against the dis	
3.2.4.	List two (2) vaccines th	nat are recommen	nded for a Sri	Lankan traveller visiting Af	frican continent (04 marks
3.2.5.	List two (2) vaccines wh	ich are not includ	led in NIP, bu	ut available in Sri Lanka.	(02 marks)

	Compare and contrast o	ral polio and inac			(05 marks)
Oral	pollo vaccine		Inactivated	polio vaccine	
	·				

3.3 3.3.1	Meningococcal dis	sease in a young adult. e pathogen.		(04 marks)
				,
3.3.2	• •	ent clinical presentations		(06 marks)
			••••••	
3.3.3	List two (2) specind different tests are per		icrobiological diagnosis and d	outline the results o (10 marks)
	Specimen	Test	Results	
	i.	i.		,
		ii.		
		iii.		
	ii.	i.		•
		ii.		
3.3.3			ecommended in the treatment	(06 marks)
3.3.4			ded for the close contacts.	
3.3.5	State three (3) cond	ditions that predispose to	this condition.	(03 marks)





Question 4	24" January 2024
Answer all questions in the space provided	10.30 a.m. to 12.30 p.m. (2 hours)
Index number	.2.2 Outine the collection and leasupper of the
4.4. A.L. L.	oial pain awalling and black pocyatic ulcorations
in the palate, not responding to antibiotic tre	cial pain, swelling and black necrotic ulcerations atment was admitted to the medical ward.
4.1.1 State the most many owners and most	(05 marks)
4.1.2 Name one likely causative agent.	(05 marks)
4.1.3 Outline the specimen collection and transpor	t to confirm the diagnosis stated in 4.1.1. (10 marks)
4.1.4 State your observations in the direct microsc	copy of the specimen collected above 4.1.3
taken 200	. (05 marks)
· · · · · · · · · · · · · · · · · · ·	
4.1.5 Name one antimicrobial recommended in the	ne treatment of this infection stated in 4.1.1. (05 marks)
4.1.6 Name two (2) adverse effects that require momentioned in 4.1.5.	onitoring during the treatment with the antimicrobial (05 marks)

4.2	A-5-year-old child presented with blood and mucous diarrhoea of 2 day	s duration.
4.2.1	List three (3) causative bacterial agents of this condition.	(06 marks)
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4.2.2	2 Outline the collection and transport of the relevant specimen.	(15 marks)
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		•
4.2.3	3. Name the recommended antimicrobial treatment of this condition.	(04 marks)
4.2.4	1. List two (2) possible life-threatening complications of this condition.	(04 marks)
4.2.5	5. List three (3) infection control measures that you would adopt to prevent the	transmission of this
	condition in the ward.	(06 marks)
		•••••
		•••••

	Index number:	
	An adult male presented with painless haematuria and evening pyrexiation.	of 2 weeks
4.3.1	Name the most likely clinical diagnosis and the causative agent.	(06 marks)
4.3.2	List two (2) microbiological investigations that could be performed to diagno	ose this condition. (04 marks)
4.3.3	Outline the collection and transport of the relevant specimen.	(15 marks)
		•••••
4.3.4	4 Outline the antimicrobial treatment in this patient.	(05 marks)
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