

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA IN CLINICAL MEDICINE AND SURGERY <u>THIRD SEMESTER 2022/2023</u> [MAY-AUGUST, 2023]

CIMS 0126: GENERAL PATHOLOGY III

STREAM: Y1S3	TIME: 2	HOURS
DAY: WEDNESDAY, 9:00 – 12:00 PM <u>INSTRUCTIONS</u> 1. Do not write anything on this question paper.	DATE: 2	6/07/2023
PART 1 SECTION A: SIX SHORT ESSAY QUESTION: EACH (1 ALL.QUESTION (60MKS) 1. Discuss factors influencing infection establishment	,	ISWER
a) In the Host (factors that prevent and limit the sprea	d of infect	tion) [5 mks]
b) In micro-organisms (factors enhancing invasive cap	acity)	(5 mks)
2. Describe causes of failure of protective and defence infection	mechanis	ms against [10 mks]
3. Discuss tetanus under the following subheadings		
a) Definition		(1mk)
b) Mode of spread		(2mks)
c) Effects		(7mks)
4. Discuss the pathology of primary tuberculosis		(10 mks)
5. Outline five clinical features of		
a) Lepromatous leprosy		(5mks)
b) Tuberculoid leprosy		(5mks)
6. Outline five		
a) Complications of actinomycosis		(5mks)
b) Manifestations of secondary syphilis		(5mks)

SECTION B: LONG ESSAY QUESTIONS (40 MKS) ANSWER ONLY TWO 1. Discuss the pathology of

a) Tertiary (late) syph	nilis			(10mks)
b) How a DNA virus death	uses the host o	cell to replic	ate and at t	he same time cause cell (10mks)
2. a) Outline both I malignancies	ONA and RNA	oncogenic v	iruses and t	heir associated (10 mks)
b) Discuss the pa	athology and p	athogenesis	s (pathophys	siology) of malaria (10 mks)
3. Discuss host and	virus interacti	ons under t	he following	subheadings
a) Changes in the i	nfected cells		c) Imm	une response
b) Interferon produ	iction by infec	ted cell	d) Inflamm	atory response
PART II: MCQS AND PART A: MCQS OND 1. Exotoxins			RECT	
a) Are secreted by liv	ing bacteria	c) Do not	stimulate ar	ntibody production
b) Are usually produ	ced by GR-VE	bacteria d) Are comple	ex proteins (LPS)
2 Staphylococcus qu	reus			
a) Is a Gram +Ve bac	teria c) Pr	roduces hya	luronidase	
b) Occurs in chains complication	d) Co	ommonly ca	uses septica	aemia as a general
3. Local lesion cause	d by staphylo	coccus aure	us include	
a) Boils		c) Erysipel	as	
b) Impetigo	d) Tonsillitis		
4. Commonest gener	al lesion cause	ed by strept	ococcus pyc	genes include
a) Septicaemia	c) Osteomy	yelitis in chi	ldren	
b) Pyaemia	d) RHD (Rł	neumatic He	eart Disease)
5. One of the followin	ng causes chro	onic infectio	n (granulom	as)
a) Staphylococcus au	ireus	c) Neisser	ria meningiti	ides
b) Neisseria gonorrhe	ea	d) Mycoba	cterium tub	erculosis
6. Oncogenic virus ir	ıclude			
a) EBV	b) Measles	c]) CMV	d) HSV

- 7. Pneumocystis jerovecii (carinii) is
- a) A protozoa c) A fungus
- b) A bacterial d) Associated with cervical cancer
- 8. One of the following is a being epithelial tumor
- a) Papilloma b) Osteoma c) Chondroma d) Leiomyoma
- 9. Berign tumors
- a) spread very fast c) Invade and destroy normal tissues
- b) Grow rapidly d) Have well circumscribed boundaries and are often encapsulated
- 10. Malignant epithelial tumors include
- a) Squamous cell carcinoma c) Leiomyosarcoma
- b) Malignant fibrous histiocytoma (MFH) d) Rhabdomyosarcoma
- 11. Connective tissue benign tumors include
- a) villous adenoma c) Osteoma
- b) Tubular adenoma d) Papilloma
- 12. The following are connective tissue expect
- a) Fibrous tissue c) Bone
- b) Cartilage d) Neuroctoderm
- 13. Histological features of benign tumors include
- a) Have abnormal frequent mitoses
- b) Show little evidence of normal function
- c) Have little resemblance of the original cell
- d) Mimie the structure of their original parental cell
- 14. Commonest sites of liposomes include
- a) Deep soft tissue of limbs c) Viscera
- b) Retroperitoneum d) Subcutaneous tissue of shoulders arms and buttocks
- 15. Sarcomas
- a) Have ill-defined edges

b) Naked eye appearance suggests that they are well encapsulated but histology disapproves this

c) Malignant cell do mot infiltrate between the normal tissues

d) Do not recur after excision				
PART B: TRUE OR FALSE: PENALTY OF ONE MARK FOR A WRONG CHOICE AND NONE FOR NO RESPONSE 1. Mechanisms by which pathogens causes diseases are				
a) Pathogen- cell contact directly b) Release of toxins c) Induction of systemic inflammatory response				
d) Obstruction of damage of blood vessels e) Induction of CMI				
2 Local lesions caused by staphylococcus qureus are				
a) Pustules b) Boils c) Carbuncles				
d) Pharyngitis e) Wound infection				
3. Complications of N. gonorrhoea in females include				
a) Cervicitis b) Oophoritis c) Acute salpingitis				
d) Infertility e) Urine retention				
4. Enzyms produced by staphylococcus qureus are				
a) Streptokinase b) Hyaluronidase c) Leucocidlia				
d) Exotoxin e) Coagulase				
5 Clinical features of E.coli 0157 due to Haemolytic uraemic syndrome are				
a) Haemolytic anemia b) Hypertension c) Renal failure				
d) Thrombocytopenic Purpura may occur e) Death in young and elderly may occur				
6 Prediposing factors to candidiasis include				
a) Diabetes mellitus b) Steroids c) Pregnancy				
d) HIV/AIDS e) leukaemia				
7. Risks factors for PTB are				
a) HIV/AIDS b) D.M c) Elderly				
d) Malnutrition e) poverty				
8. Histological glandular tissue carcinomas include				
a) Adenocarcinoma b) Mucoid carcinoma c) Pleomorphic cell carcinoma				
d) Colonic carcinoma e) Cancer of breast				
9. About sarcoma				
a) Majority consist of spindle shaped cells.				
b) Are associated with formation of large thin walled blood vessels.				

c) Blood borne metastases to lungs is common				
d) A few are of round cells				
e) Spread via lymphatics is rare				
10. Causes of anaemia in visceral leishmaniasis include				
a) Sphenomegaly with hypersplenism b) Depressed bone marrow function				
c) Autoimmune haemolysis d) Ineffective erythropocisis e) G.I.T haemorrhage				
11. Features of kala-azar include				
a) Weight loss b) High grade fever c) Hepatosplenomegaly				
d) Lymphadenopathy e) anaemia				
12. Complications of congenital toxoplasmosis in second trimester of pregnancy include				
a) Moderate brain damage b) Epilepsy c) Chorioretinitis				
d) Microcephaly e) Encephalitis				
13. Complication of S. haematobium are				
a) Cystitis b) Renal failure c) Squamous cell carcinoma of bladder				
d) Haemospermia e) portal hypertension				
14. Hyper infection due to impaired immunity strongly loidiasis presents with				
a) Multi-organ failure b) Acute pneumonia c) Fulminant diarrhea				
d) Septic shock e) Meningitis				
15. Causes of pyrexia in infections include				
a) Resetting of to regulating centre in hypothalamus due to pyrogens				
b) heat stroke c) infarction d) Cerebral disease in the region of pons				
e) tumours.				