Department of Pathology Brahmanbaria Medical College

1st Term Examination (1511).
Haematology and General Pathology (SAQ)

Total Marks:70

Time: 02 Hrs 30 Mins

GROUP: A (35 Marks)

Answer any 6 (Six) question including question No. 7 & 8 which is compulsory.

Q. 1.	Classify congenital hemolytic anemia. State the Blood picture of thalassemia major laboratory diagnosis.	or with
Q. 2. lympl	Define leukaemia with classification. What are the difference between myeloblast hoblast?	and 1+3+2
Q.3.	Mention the causes of pancytopenia. Write down the differences between aplastic anemia and subleukemic leukemia.	2+4
Q.4.	Name the common causes of thrombocytopenia? How will you proceed to diagnose a case of ITP?	2+4
Q.5.	What are the absolute indications of bone marrow aspiration? How will your diagnose of CGL?	ose a 2+4
Q.6.	Mention the screening tests of donor before blood transfusion. What are the complemassive blood transfusion?	VIII. 11 11 11 11 11 11 11 11 11 11 11 11 11
Q.7. S	Short note:	
а	a) Coomb's test. b) Polycythemia c) Leukamoid reaction.	(2 + 2 +2)
Q. 8.		
	a. A 60 yrs old male presented with severe weakness, headache, low back pain has a vertebral collapse, his X-ray shows osteolytic lesion. What is the probable diagnosis can you confirm it?	and s? How 2.5
1	b. A male of 26 yrs presented with gum bleeding, hope pain and wash.	4.5

peripheral blood film shows significant number of blast cells with increased leucocyte count and reduced platelet count. What is the probable diagnosis? How will you confirm it? 2.5

GROUP: B(35 Marks)

Answer any 6 (Six) question including question No. 7 & 8 which is compulsory.

Q. 1	the stages and the cellular responses to initial of the stages and the cellular responses to initial of the stages and the cellular responses to initial of the stages and the cellular responses to initial of the cellular responses to the cellu	sm of
	. Sive example.	3+3
Q.2.	What are the important ultrastructural changes in irreversible cell injury? Tabulate t difference between the features of Necrosis and apoptosis.	
Q.3.		
Q.4.	AVI	2+2+2
Q.4.	What are the major components of acute inflammation? Tabulate the differences between the features of acute and chronic inflammation. State the harmful conseque inflammation?	nces of
		2+2+2
Q.5.	What do you mean by grading and staging of tumour? Mention the grades of squamout cell carcinoma. What is the major staging system currently in use? Why staging of to more clinical value?	umour has
0.		2+1+1+2
Q.6.	Define embolus with different type of emboli. Why does thrombus develop frequent surgery? What are the fates of a thrombus?	ly after 2+2+2
Q. 7.	Define necrosis. Mention the different types of necrosis with examples. Tubulate the differences between coagulative and caseous necroses.	
Q.8.	Write short notes on:	1+2+2
	(a) Atrophy, (b) Dystrophic calcification (c) Paraneoplastic syndrome	2+2+2

Department of Pathology Brahmanbaria Medical College

1st Term Examination (BM)

Multiple Choice Questions (MCQ)

Total Marks:20

Time: 30 Minutes

The following statement are correct for eosinophilia?			Poly cythemia occurs in:		
osolute count of eosinophil is more than 0/mm3 but less than 400/mm3.		a.	Congenital heart disease		
ccurs in atopic asthema&hayfever.	1 [b.	Renal cell carcinoma		
bsence of eosinophilia exclude parasitic fection.		c.	Carcinoid tumour		
odgkin's disease		d.	Lead poisoning		
ood & drug hypersensitivity causes		e.	Hypoxia		
ollowing disease associated with	7.	Leukaemoid Reaction Occurs in :			
lymphocytosis. a. Chronic granulocytic leukaemia (CGL)		a.	Acute haemolysis		
on-Hodgkin's lymphoma.		b.	Pertusis		
yphoid fever		c.	Necrotic tumours		
ertusis		d.	Von Willidrand's disease		
econdary Syphilis		e.	Acute myeloid leukaemia		
E Secondary Syphilis Neutropenia occurs in the following condition.		ITP is associated with:			
yphoid fever	1	a.	Massive splenomegaly		
verwhelming Sepsis		b.	Large joint bleeding		
oeffler's Syndrome		c.	Increased bleeding time		
viabetic Ketoacidosis		d.	Large abnormal megakaryocytes in bone marrow		
arbimazole		e.	Pancytopenia in PBF		
e. Carbimazole The following are the causes of Autoimmune haemolyticanaemia		Haemophilia:			
1ethyldopa or -L.dopa		a.	It is a X. linked recessive disorder		
ead poisoning		b.	Superficial mucosal bleeding is the main manifestation.		
1efenamic acid		c.	PT increased		
obar Pneumonia		d.	Clotting time increased		
laemolytic uremic Syndrome		e.	Bleeding time normal		
ing time is prolonged.	10	My	veloproliferative disorders include:		
ow platelets count < 40,000/mm3	1.	a.	Chronic myeloid leukemia		
araproteinaemia		b.	Myelodysplastic syndrome		
Iraemia	7	c.	Essential thrombocythemia		
Christmas disease	7	d.	Haemoglobinopathies		
10.12	1	e.	Polycythemia vera		
lrae hris	mia	mia stmas disease	mia c. d.		

11.	tissue.		16.	Granulomatous inflammatory response in induced by		
	 a. Is a feature of wound healing b. Contains fibroblasts c. Contains thin walled capillaries d. Often contains granuloma 	a.		Mycobacterium tuberculosis.		
		b.		Staphylococcus aureus.		
		c.		Trepanoma pallidum		
		d.		Mycobacterium leprae		
		e. Leads to malignant transformation		e.	Streptococcus pneumonae	
12,	The antioxidants include		17.			
	a.	Ceruloplasmin		a.	Old tuberculous lesion	
	b.	Nitric oxide		b.	Scar.	
	c.	Transferrin		c.	Nephrocalcinosis.	
	d.	Catalase		d.	Atheromatous plaque.	
	e.	Glutathione peroxidase		e.	Dead parasite	
13.	Following factors are associated with apoptosis		18.	The followings are used in tumour grading		
	a.	Enlargement of cells		a.	Mitotic index	
	b.	Breakdown of cytoskeleton		b.	Necrosis	
	c.	Cytoplasmic bleb formation		c.	Differentiation	
	d.	Activation of caspase enzyme		d.		
	e.	Random breakdown of DNA		e.	Nodal spread Calcification	
4.	Manifestation of Autosomal Dominant disorders are:		19.	Precancerous conditions include		
	a.	Homozygous state of affected allele		a.	Solar keratosis of skin.	
7.	b.	Both male and female are affected		b.	Ulcerative colitis.	
	c.	Both can transmit the condition		c.	Leukoplakia of penis	
	d.	Variable expressivity		d.	Bowen's disease.	
	e.	Reduced penetrance		e.		
5.	Disorders of the immune system include:		20.	e. Mollascum contagiosum Necrotic tissue is characterized by		
	a.	Hypersensitivity reactions		a.	Decreased assistability	
	b.	Autoimmune disease		b.	Decreased eosinophilia	
	c.	Immunologic deficiency		c.	Denaturation of protein	
	d.	Amyloidosis.		d.	Increased protein synthesis	
	e.	Nodular hyperplasia of prostate			Loss of cell membrane phospholipids	
7500		yr - Francis S. Prostate		e.	Increased pH of cells	

DEPARTMENT OF PATHOLOGY

Brahmmanbaria Medical College, Ghatura, Brahmmanbaria

Term-2 Examination. BM-8 Batch (Session: 2020-21) Date: 02.10.2024 Subject: Syst. Path-2 (SAQ); Full Marks: 80; Time: 2 hours 35 minutes. Use separate answer scripts for each group. The number of each question is shown below Answer eight questions from each group including question No. 10 which is compulsory

Group-A

- 1. What do you mean by PUD? Write the predisposing factors for peptic ulcer. Mention the differentiating points between a benign ulcer and a malignant ulcer. (1+2+2)
- 2. Define polyp. Name the polyps of gastrointestinal tracts. Mention the differences between Crohn's disease and ulcerative colitis. (1+2+2)
- 3. Define liver cirrhosis. What are the causes of liver cirrhosis? Describe the pathogenesis of ascites in liver cirrhosis. (1+2+2)
- 4. Mention the indication of enzymes of medical importance with examples. What enzymes are elevated in hepatocellular and obstructive jaundice? Mention the urinary finding of obstructive jaundice. (2+1.5+1.5)
- 5. Give the laboratory investigations to differentiate AGN from nephrotic syndrome. Write the pathogenesis of acute post-streptococcal glomerulonephritis. (3+2)
- 6. What are the ischemic heart diseases? Give the pathogenesis of myocardial infarction. Name the different cardiac markers related to the diagnosis of MI. (1+2+2)
- 7. Define goitre. What are the causes of goitre? Give the etiopathogenesis of multinodular goitre. (1+2+2)
- 8. What are the differences between type I and type II diabetes mellitus? How does ketoacidosis develop in uncontrolled DM? (3+2)
- 9. Write short notes on: a) Barrett's esophagus; b) Hashimoto's thyroiditis. (2.5+2.5)
- 10.a) Mention important uses of the frozen section. What are the common stains and fixatives used for histopathological examinations? (1+1.5)
 b) A boy of 11 years suddenly develops puffiness of face with scant high-colored urine formation. He gave a history of sore throat about 3 weeks back. What is the likely diagnosis? Give the positive findings of his routine urine examination test. (1+1.5)

Group-B

- 01. What is pneumonia? What are the differences between bronchopneumonia and lobar pneumonia? Briefly state the stages of lobar pneumonia (1+2+2)
- 02. Classify tumors of the lung. How will you diagnose a case of bronchogenic carcinoma? What is respiratory acidosis? (2+2+1)
- 03. What is atherosclerosis? Name the blood vessels more frequently involved by atherosclerosis with their possible clinical consequences. Give the lipid profile and their normal range. (1+2+2)
- 04. Write down the pathogenesis of rheumatic fever. Which valves are commonly involved? What are the complications of rheumatic fever? (2+1+2)
- 05. What is CIN? Write down the role of human papillomavirus in causing cervical cancer. Mention the diagnostic tool for cervical cancer. (I +2+2)
- 06.Classify breast carcinoma. Mention the prognostic factors involved in breast carcinoma. (2+3)
- 07. Classify the testicular tumor. Mention the normal findings of semen analysis. State the causes of azoospermia. (2+1.5+1.5)
- 08. What is osteomyelitis? Mention its predisposing factors and etiologic agents. Write the morphology of pyogenic osteomyelitis. (1+2+2)
- 09. Mention indications of CSF examination. Write the normal CSF findings and the changes observed in pyogenic and tubercular meningitis, and name the investigations needed to confirm such cases. (1.5+2.5+1)
- 10.a.) A 55-year-old female complained of a hard lump in her right breast for 3 months. On examination, the overlying skin appears fixed and puckered. What is your clinical diagnosis? Name the investigations to diagnose the case. (1+1.5)
 - b.) A 60-year-old female presented with irregular per vaginal bleeding for one month after menopause. Her PV examination revealed an apparently healthy cervix but with bloody discharge. What is your provisional diagnosis? How can you confirm it? (1+1.5)

DEL SKIMENT OF PATHEMARA

Ferm-2 Examination 15Mt & Batch (Session, 2020-2021)

Subject: Syst. Path-2 (MCO). Full Marks: 20; Time: 25 minutes. All questions carry equal marks Fill up the "T" box for true and "F" box for False in the answer sheet provided.

. nature Madical College Chairma Richarden

i. M	ajor	criteria for diagnosis of acute rheumatic fever	6. C;	ucu	ioma esophagus
	, it	Arthodgid	i	1.	Difficulty in swallowing liquid appears earlier than solid
	b	Fever		b.	An endoscopic biopsy may confirm the diagnosis
	c.	Chorea		c.	Adenocarcinoma more commonly occurs in the upper third
	d.	Morning stiffness	-	d.	The majority diagnosed in the advanced stage
		Subeutaneous nodule		e.	Tend to disseminate early
	e,		7 Ba	rret	's esophagus is related to
), Co	inger	nital cyanotic heart diseases are	1	a.	A dysplastic change in response to chronic GERD
1.14	a.	VSD		b.	Increased risk of esophageal adenocarcinoma
	b.	TOF		0.	
		ASD		c.	Characterized by gastric metaplasia
	C.			d.	Most patients develop esophageal tumors
	d.	TGA .		e.	Complicated with bleeding
	v.	PDA	-	_	
i Fo	llow	ings are related with endometrial carcinoma	8. Re		ling gastric cancer H. pylori is an important etiological factor for proximal
	a.	Oral contraceptives increase risk		a.	gastric cancer
	b.	Associated with Hereditary nonpolyposis		b.	Diffuse type has the worst prognosis
	c.	colorectal carcinoma Glucose intolerance		c.	Proximal gastric cancer is most common in our country
				d.	It is radiosensitive
	d.	Respond well with radiation therapy		e.	Diffuse cancers occur in younger patients
	e.	Associated with low parity			
4 Ch	aract	teristics of pleomorphic adenoma include	0 Har	atit	is A virus can produce
				a.	Hemolytic jaundice
	a.	Present as painful mobile masses		b.	Acute hepatitis
	b.	Radiation exposure increases the risk	-	c.	Chronic hepatitis
	L.	Most frequent in adult males		d	Fulminant hepatitis
	d.	They show both epithelial and mesenchymal differentiation		u. 	
	e.	Composed of cells from more than one germ layer		e.	Carrier state
!	-		10. Ins	sulir	resistance develops in the following ma or tissues
5. Ewi		arcoma is related to The most common bone sarcoma in children	1	a.	Neuron
	a			b.	Skeletal muscle
	b.	Tumor cells are pleomorphic).).	Adipose tissue
	c.	X-ray shows osteolytic lesion		-	Kidney
	d.	usually arise in the epiphysis of long bones		1.	
	e.	Presents with pain and fever	6	2.	Liver

L. Cause	es of hyperglycemia include	16. Fol	lov	wings are associated with carcinoma liver
a.	Insulinoma	a		Tobacco smoking
b.	Heavy exercise	b		Aspergillus infection
1	Charles be all second		1	Helicobacter pylori infection
b.	Septic shock	d	-	Schistosoma haematobium
e.	Thiazide diuretic intake	e		Chronic alcoholism
2. Hype	erglycemia sine glycosuria	17. Co	me	olication of gallstone
] a.	Presence of glucose in urine	a		perforation
b.	Old diabetes mellitus			Empyema
c.	Decreased renal threshold level of kidney	c		Large gut obstruction
d.	Proteinuria	d	l.	Chronic pancreatitis
e.	Hematuria	e		Malignancy
D. East	ways of hypothyroidism are	18 Ev	ud	ative pleural effusion occurs in
a.	Hyperreflexia	lo. Ex		Tuberculosis
ь.	Tach cardia	b	, –).	Nephrotic syndrome
e.	Hypertension			Malignancy
d.	Cold intolerance		i.	Pneumonia
e.	Weight gain).	Meig's syndrome
14 Bloc	od urea is elevated in	19. Se	rui	m PSA level is raised in
a.	Severe dehydration	T	a.	Acute prostatitis
b.	Pregnancy		b.	Nodular hyperplasia
c.	Tubular necrosis		c.	Testicular neoplasm
d.	Diabetes insipidus		d.	Carcinoma of seminal vesicle
e.	Cortical necrosis		e.	Prostate cancer
15 CSF	findings in viral meningitis	20. Ca	irc	inoma prostate is characterized by
a.	Polymorphs in CSF		a.	Always arises in the peripheral zone of the
b.	Clot formation		b.	Mutations ofBRCA2 gene
c.	Blood in CSF		c.	Is related to raised acid phosphatase level
d.	CSF protein is raised		d.	Nodular hyperplasia is a risk factor for cand development
e.	CSF sugar is normal		e.	Usually produces osteolytic bony metastasis