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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 3- EXAMINATION –WINTER - 2018

Subj	ject (Code: BP304TT Date: 10/12/2018	
Subj	ect l	Name: Pathophysiology	
Tim	e: 10	0:30 AM TO 01:30 PM Total Marks: 80	
	uction		
		. Attempt five questions.	
		. Make Suitable assumptions wherever necessary.	
		. Figures to the right indicate full marks.	
Q.1		Choose correct option for following questions	16
	1	Find out the correct statement with regards to tuberculosis:	
		(a) Mycobacterium tuberculosis is a facultative aerobic organism	
		(b) Primary infection of tuberculosis is in GI tract	
		(c) It represents granulomatous inflammation	
		(d) Type of cell death in tuberculosis is apoptosis	
	2	Find out pair of major phagocytes of blood:	
		(a) Monocyte, Neutrophils (c) Lymphocyte, Neutrophils	
		(b) Basophil, Eiosinophil (d) Lymphocyte, Monocyte	
	3	Which of the following gland undergoes physiological atrophy with increase in	
		age?	
		(a) Thymus (c) Adrenal gland	
		(b) Spleen (d) Pituitary gland	
	4	Expression of pro-apoptotic molecules is a novel target for treatment of:	
		(a) Diabetes (c) Alzheimer's disease	
	_	(b) AIDS (d) Cancer	
	5	Find out arachidonic acid metabolite which induces platelet aggregation	
		(a) Thromboxane A ₂ (c) Histamine	
		(b) Prostaglandin I ₂ (d) Serotonin	
	6	Formation of uric acid crystals in synovial joints resulting in inflammation of	
		synovial joints is known as:	
		(a) Osteoarthritis (c) Rheumatism (b) Courty orthritis (d) Spandylitis	
	_	(b) Gouty arthritis (d) Spondylitis	
	7	Peptic ulcer is due to infection of:	
		(a) Helicobacter pylori infection in ileum	
		(b) Helicobacter pylori infection in pylorus	
		(c) Entamoebica histolytica infection in ileum	
	0	(d) Entamoebica histolytica infection in pylorus	
	8	Carcinoma refers to cancer of:	
		(a) Epithelial tissue(b) Connective tissue(c) Nervous tissue(d) Muscular tissue	
	9	(b) Connective tissue (d) Muscular tissue Widal test is used for diagnosis for:	
		(a) Syphilis (c) Gonorrhoea(b) Typhoid (d) AIDS	
	10	Commonly observed bone disorder in menopause is:	
		(a) Rickets (c) Osteomalacia	
		(w) Littleto (v) Obtoditutuotu	

(b) Osteomyelitis

	11	Hemophilia-A occurs due to deficiency of:	
		(a) Clotting factor XII (c) Clotting factor VII	
		(b) Clotting factor VIII (d) Clotting factor V	
	12	Pulmonary edema is commonly observed complication in:	
		(a) Essential hypertension (c) Congestive cardiac failure(b) Secondary hypertension (d) Megaloblastic anaemia	
	13	Hyperkalaemia can be observed due to:	
	13	(a) Hyperaldosteronism (c) Cushing's syndrome	
		(b) Excess insulin therapy (d) Addison's disease	
	14	Epilepsy may result in convulsions when neuronal firing increases in	
		(a) Medulla oblongata (c) Midbrain	
		(b) Motor cortex (d) Cerebellum	
	15	Diabetes insipidus refers to:	
		(a) Sodium and water retention	
		(b) Increased urine formation due to deficiency of aldosterone	
		(c) Increased urine formation due to increase in urine sugar	
	17	(d) Increased urine formation due to deficiency of anti-diuretic hormone	
	16	Find out the correct statement with regards to urinary tract infection:	
		(a) Upper urinary tract infections are more common as compare to lower urinary tract infections.	
		(b) Urinary tract infections are more common in female as compared to male.	
		(c) Major causative organisms of urinary tract infection are gram positive in	
		nature.	
		(d) Diuresis is a commonly observed symptom of urinary tract infection.	
Q.2	(a)	Enlist hereditary anaemia. Add a note on sickle cell anaemia.	06
~	(b)	Compare and contrast: Type 1 and Type 2 diabetes mellitus. Write	05
	(~)	complications of diabetes in brief.	-
	(c)	Describe pathogenesis of congestive cardiac failure.	05
Q.3	(a)	Explain following terms: (i) Homeostasis (ii) Negative feedback system	06
Q.S	(a)	(iii) Metaplasia	vo
	(b)	Describe pathogenesis of cancer in brief.	05
	(c)	What is angina pectoris? Classify it. Discuss pathogenesis of angina pectoris in	05
	. ,	brief.	
Q.4	(a)	Give comment on:	06
Ų.Ŧ	(a)	(i) Hypertension is a silent killer.	vv
		(ii) Vitamin B ₁₂ deficiency is referred as megaloblastic anaemia.	
		(iii) Schizophrenia is a neurodevelopmental disorder.	
	(b)	Define inflammation. Describe cellular events of acute inflammation in detail.	05
	(c)	Describe pathogenesis, symptoms and complications for acute renal failure.	05
Q.5	(a)	Draw life cycle of HIV virus. Discuss diagnosis, symptoms and pathogenesis of	06
Ų.S	(a)	AIDS.	00
	(b)	Enlist various types of hepatitis. Discuss etiology, symptoms and complications	05
	()	of hepatitis A.	
	(c)	Describe etiology and pathogenesis of rheumatoid arthritis.	05
Q. 6	(a)	Write symptoms for following disease:	06
ν . υ	(a)	(i) Cretinism (ii) Depression (iii) Inflammatory bowel disease	00
		(ii) 2 - F	

(d) Osteoporosis

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	(b)	Explain the processes involved in healing of skin wounds in brief.	05
	(c)	Discuss symptoms and pathogenesis of COPD.	05
Q.7	(a)	Enlist various factors leading to cell injury. Discuss reversible cell injury due to ischaemia.	06
	(b)	Define apoptosis. Write in detail about mechanism of apoptosis.	05
	(c)	Enlist neurodegenerative diseases. Write neurochemistry and symptoms of	05
		Parkinson's disease.	
