W 004/158

25/5/24

Enrolment Number	

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Winter, 2023

B. Pharm 2nd Semester Examination

Pathophysiology- Theory

Course Code: BP204Ta Chawdhury Central Library University Conversion Conversi Girijananda Chowdhury University Hatkhowapara, Azara, Gny-17

Full Marks - 75

Time - 3 hours

The figure in the margin indicates full marks for the questions.

1. Multiple choice questions (MCQ) (Answer all questions):

 $(20 \times 1 = 20)$ 

- i. Which organelle is primarily affected in cell injury leading to mitochondrial damage?
  - a. Golgi apparatus
  - b. Endoplasmic reticulum
  - c. Mitochondria
  - d. Lysosomes
- ii. Which term refers to a reversible decrease in cell size due to loss of cell substance?
  - a. Hypertrophy
  - b. Hyperplasia
  - c. Atrophy
  - d. Metaplasia
- iii. Cell swelling is primarily caused by:
  - a. Accumulation of intracellular calcium
  - b. Accumulation of intracellular proteins
  - c. Loss of intracellular water
  - d. Disruption of the cell membrane
- iv. Which of the following is NOT a clinical sign of inflammation?
  - a. Redness (Rubor)
  - b. Heat (Calor)
  - c. Coldness (Frigor)

	d Swelling (Tumor)	
٧.	Which condition is characterized by	persistent elevation of blood pressure above normal levels?
		Central Library
	b. Hypertension	Bina Chowdhury Gentral Library  Bina Chowdhury University  Girijananda Chowdhury Gny-17  Girijananda Azara, Gny-17  Hatkhowapara, Azara,
	c. Myocardial infarction	Hatkhowapara
	d. Angina	
vi.	Ischemia is	
	a. Overflow of blood to tissues	
	b. Restriction of blood supply to tiss	sues
(	c. Inadequate deoxygenated blood-	-carrying veins
	d. Shortness of breath	
vii.	Which condition involves chronic odes of wheezing, breathlessness,	inflammation and narrowing of the airways, leading to recurren and chest tightness?
	a. Asthma	
t	Chronic obstructive pulmonary di	sease (COPD)
	. Pneumonia	
C	I. Bronchitis	
viii.	Hemophilia is	
а	Y-linked disorder	
b	X-linked disorder	
C	Z-linked disorder	
d	Autosomal	
x. V	Which term describes a condition che heart muscle?	naracterized by chest pain or discomfort due to reduced blood flow
а	Hypertension	
b	. Angina	
C	Myocardial infarction	
d	Arteriosclerosis	

x. Rheumatoid arthritis primarily affects which type of tissue?

a. Bone b. Cartilage c. Muscle d. Ligament xi. Gout is caused by the deposition of: a. Uric acid crystals in the joints Sina Cowdhury Central Library Sinjar anda Chowdhury University b. Calcium crystals in the joints Hatkhowapara, Azara, Gny-17 c. Cholesterol crystals in the joints d. Sodium crystals in the joints xii. Which type of viral hepatitis is primarily transmitted through contaminated food and water? a. Hepatitis A b. Hepatitis B c. Hepatitis C d. Hepatitis D xiii. Which of the following foods is known to exacerbate gout symptoms due to its high purine content? a. Fruits b. Vegetables c. Red meat d. Whole grains xiv. Meningitis is an infection characterized by inflammation of the: a: Liver b. Brain and spinal cord membranes c. Lungs d Kidneys xv. Which bacterium is responsible for causing typhoid fever? a. Salmonella typhi

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b. Mycobacterium tuberculosis

c. Treponema pallidum

d. Leptospira spp.
xvi. AIDS is caused by the human immunodeficiency virus (HIV), which primarily targets:
a. Muscle tissue
b. Bone marrow
c. The immune system
d. Nervous tissue
xvii. Which bacterium is responsible for causing gonorrhea?
a. Chlamydia trachomatis
b. Neisseria gonorrhoeae
c. Treponema pallidum
d. Haemophilus ducreyi
xviii. Which of the following is NOT considered a risk factor for cancer development?
a. Tobacco use  b. Obesity  c. Regular exercise  d. Ultraviolet radiation exposure.  Six. HIV is
c. Regular exercise
d. Ultraviolet radiation exposure.
xix. HIV is Girila Myno*
a. Capripoxvirus
b. Gallivirus
c. Lentivirus
d, Papillomavirus
xx. Iron deficiency anemia is characterized by a deficiency in which essential mineral?
a. Magnesium
b. Iron
c. Calcium
d. Potassium.
2. Short answers (Answer any seven) (word limit: 250 words) (7 X 5 = 35)
(i). Explain the phases involved in wound healing of the skin.

- (ii) Discuss the different hematological-related disorders.
- (iii). Describe the types of ischemic heart disease. Write a note on acute and chronic renal failure
- (iv). Explain the types of diabetes mellitus. Briefly explain the disorders of sex hormones.
- (v). Explain the pathogenesis and clinical presentation of rheumatoid arthritis.
- (vi). Mention the different sexually transmitted diseases. Explain the pathogenesis of Gonorrhea.
- (vii). Describe the role vitamin B12 and folic acid play in the production of red blood cells? Explain how their deficiency leads to megaloblastic anaemia.
- (viii). Define peptic ulcer. Write a note on the pathophysiology of peptic ulcer disease.
- (ix). Explain the etiology, pathogenesis, signs and symptoms of tuberculosis uniterated
- 3. Long answers (Answer any two): (word limit: 1000 words)

 $(2 \times 10 = 20)$ 

- Long answers (Answer any two): (word limit: 1000 words)

  (i). (a) Define Parkinson's disease. Write a note on the pathogenesis and clinical symptoms of Parkinson's disease.
- (b) Elaborate on the different types of adaptive changes in a cell. Explain the process of calcification and enzyme leakage in cell death. (5)
- (ii). Define the term 'Neoplasm'. Classify tumors. Write a note on the etiology and pathogenesis of cancer. (1+4+5)
- (iii). (a) Define the term 'atherosclerosis'. Elaborate on the pathophysiology of atherosclerosis. (1+4)
  - (b) Write a note on alcoholic liver disease. (5)