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Enrolment No:			
<div>UPES</div> <div>End Semester Examination, May 2025</div> <div><div>Program Name: B Pharm</div><div>Course Name: Pathophysiology</div><div>Course Code: BP204T</div><div>Instructions: Read all questions carefully.</div></div> <div><div>Semester : 2nd</div><div>Time : 03 hrs</div><div>Max. Marks : 75</div></div>			
S. No.	Section A Short answer questions/ MCQ/T&F (20Qx1M= 20 Marks)	Marks	COs
Q 1	Which of the following is an example of cellular adaptation to increased workload? A) Atrophy B) Hypertrophy C) Dysplasia D) Necrosis	1	CO1
Q 2	Atherosclerosis is primarily characterized by: A) Hypertension B) Inflammation of arteries C) Lipid deposition in arterial walls D) Thickening of venous walls	1	CO2
Q 3	Which mediator is mainly responsible for pain in inflammation? A) Histamine B) Bradykinin C) Interleukin-1 D) Prostaglandin	1	CO1
Q 4	Which hormone is deficient in diabetes mellitus? A) Glucagon B) Insulin C) Cortisol D) Thyroxine	1	CO3
Q 5	Cell swelling is a reversible type of cell injury. (True/False)	1	CO2
Q 6	Inflammation always indicates infection. (True/False)	1	CO2
Q 7	Hemophilia is more common in females than males. (True/False)	1	CO1
Q 8	Tuberculosis is caused by a virus. (True/False)	1	CO1
Q 9	_____ is the clinical term for high blood pressure.	1	CO1
Q 10	_____ refers to abnormal growth with loss of cell uniformity and architecture.	1	CO2
Q 11	A characteristic symptom of Parkinson’s disease is _____.	1	CO1
Q 12	In gout, _____ crystals accumulate in joints.	1	CO3
Q 13	Which diagnostic test is commonly used for detecting tuberculosis? A) ELISA B) Mantoux tuberculin skin test	1	CO1

	C) Western blot D) Widal test		
Q 14	Syphilis is caused by: A) Treponema pallidum B) Chlamydia trachomatis C) Neisseria gonorrhoeae D) Mycobacterium tuberculosis	1	CO2
Q 15	Which test is commonly used to diagnose typhoid fever? A) Widal test B) PCR test C) Gram stain D) TB skin test	1	CO1
Q 16	The most common symptom of osteoporosis is: A) Weight gain B) Bone fractures C) Muscle weakness D) Skin lesions	1	CO1
Q 17	Which of the following is an autoimmune disease of the joints? A) Osteoporosis B) Rheumatoid arthritis C) Gout D) Osteomalacia	1	CO2
Q 18	Megaloblastic anemia is primarily caused by a deficiency of: a) Vitamin D b) Vitamin C c) Vitamin B12 and folic acid d) Vitamin K	1	CO3
Q 19	Alzheimer's disease is associated with the accumulation of: A) Lewy bodies B) Neurofibrillary tangles and beta-amyloid plaques C) Prions D) Viral inclusion bodies	1	CO1
Q 20	Hemophilia is a genetic disorder involving deficiency of: A) Platelets B) Hemoglobin C) Clotting factor VIII or IX D) Vitamin B12	1	CO2
<p style="text-align: center;">Section B Long Answers (Answer any 2 out of 3) (2Q x 10M=20 Marks)</p>			
Q 1	Describe in detail the pathogenesis and morphology of cell injury.	5+5	CO2
Q 2	Explain the mechanism, mediators, and types of inflammation.	2+2+6	CO3
Q 3	Explain the pathophysiology, clinical features, and complications of chronic obstructive pulmonary disease (COPD).	6+2+2	CO5
<p style="text-align: center;">Section C Short Answers (Answer any 7 out of 9) 7X5 (7Qx5M=35 Marks)</p>			
Q 1	Define and explain any three types of cellular adaptation.	5	CO5
Q 2	Explain the basic principles of cancer development.	5	CO3
Q 3	Write briefly on the stages of wound healing.	5	CO2

Q 4	Discuss iron deficiency anemia: causes, symptoms, and treatment.	5	CO3
Q 5	Describe the pathophysiology of asthma.	5	CO2
Q 6	Differentiate between atrophy and hypertrophy with examples.	5	CO3
Q 7	Discuss the pathophysiology of congestive heart failure	5	CO4
Q 8	Explain the pathophysiology and complications of Parkinson's disease.	5	CO1
Q 9	Write a detailed note on sexually transmitted diseases: AIDS, syphilis, and gonorrhea.	5	CO5