JHARKHAND Rai University
RANCHI

End Semester/Reappear (Semester III) Examination December, 2024

Programme:BPT
Course:Pathology & Microbiology **Full Marks: 70**
Course Code: 23A301 **Time: 3 Hrs.**
Enrolment no. _____

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
	Section I			
1	**Short Answer type questions.**			**4 x 5 = 20**
a	Describe the process of wound healing and the factors which influence it.	CO1	Understand	
	or			
	Define pressure ulcer and What are the four stages of it?	CO1	Remember	
b	What is leukemia, and how does it affect the blood and bone marrow?	CO6	Remember	
	or			
	Define polycythemia and explain how it affects the circulatory system?	CO6	Remember	
c	Explain multiple sclerosis and describe how MS affect the CNS.	CO4	Understand	
	or			
	What a brief note on myasthenia gravis.	CO4	Remember	
d	Define some pathogenic disease associated with salmonella.	CO7	Remember	
	or			
	Explain the life cycle of Plasmodium in humans and Mosquitoes.	CO7	Understand	
	Section II			
Long Answer type questions.				**3 x 10 = 30**
2	How would you manage a Patient presenting with a chronic cough,weight loss and night sweats in a TB-endemic region?	CO4	Apply	
	or			
	What is Osteoarthritis? What are the pathological features of osteoarthritis and list the changes that occur in articular cartilage during Osteoarthritis.	CO4	Remember	
3	Explain the identification and prevention process of infectious disease caused by streptococci.	CO5	Understand	
	or			
	Describe some characteristics features of disease caused by E.coli.	CO5	Understand	
4	Write about RAAS pathway. Write its etiology, pathogenesis, sign & symptoms of MI.	CO4	Remember	
	or			
	Describe gross pathology including- etiology, pathogenesis, sign & symptoms of Vasomotor Raynaud's.	CO4	Understand	
	Section III			
	Application based questions			**1 x 20 = 20**
5	Analyze the gross pathology including- pathomechanism, sign & symptoms, complication and management of CCF (congestive cardiac failure). Compare the pathlogical mechanism of ischaemic heart failure and hypertensive heart failure.	CO4	Analyze	
	or			

	Analyze how atherosclerotic plaque formation leads to coronary artery disease (CAD), and compare the pathological features of stable versus unsatble Artherosclerosis plaques.	CO4	Analyze	

COURSE OUTCOME

At the end the course the candidate will able to

CO1: Acquire the knowledge of concepts of cell injury and changes produced there by in different tissues and organs; capacity of the body in healing process.

CO2: Recall the etio-pathogenesis, the pathological effects and the clinico-pathological correlation of common infection and non-infectious disease.

CO3: Acquire the knowledge of concepts of neoplasia with reference to the etiology, gross and microscopic features, diagnosis and prognosis in different tissues and organs of the body.

CO4: Correlate normal and altered morphology of different organ systems indifferent diseases needed to understand the disease process and their clinical significance (with special emphasis to neuro-musculo-skeletal and cardiovascular – respiratory system).

CO5: Acquire knowledge of common immunological disorders and their resultant effects on the human body.

CO6: Understand in brief, about the hematological diseases and investigations necessary to diagnose them and determine their prognosis.

CO7: To have sound knowledge of the agents responsible for causing human infections pertaining to CNS, CVS, musculoskeletal and Respiratory system.