

## Birla Institute of Technology and Science, Pilani, Pilani-Campus, Rajasthan Mid Term- Examination: 1<sup>st</sup> Sem-2022-2023 Course Code and Title: PHA F 415: Pathophysiology

Max. Marks: 32 Date: 02/11/22	<u>Closed Book</u> Duration: 90 Min
Instructions: Answer all the questions. Be crisp and answer to the point	
Q-1: What do you mean by pro-inflammatory cytokines? Explain with the help of suitable example, how	
cytokines modulation could be targeted to treat clinical problems.	3.0 M
<ul><li>Q-2: Patients with inflammatory joint disorders including arthritis and gout, represent a possible high-risk group to COVID-19 infection. Many patients were associated with Multisystem inflammatory syndrome in which different body parts become inflamed, including the heart, lungs, kidneys and brain.</li><li>a) How does the diagnosis be done based on symptoms for RA and Gout? Also, discuss the pathological</li></ul>	
mechanism-based drug class used for Gout treatment.	3.0 M
b) What are the symptoms and pathogenic mechanism of Sjögren's syndrome?	1.5 M
<ul><li>Q3: Comments/justify with the help of suitable reasoning to the following</li><li>a. Padogra, a painful condition of the big toe, is a common symptom in RA</li><li>b. Chronic stress on the heart may resulted- hyperplasia as an adaptive response.</li></ul>	9.0 M a patients?
c. Lepromin test is negative in lepromatous leprosy?	
d. Following years of exposure to irritating cigarette smoke- gradually the irritation and mucus secretion	
reduce, why?	
e. In apoptosis-Intrinsic death pathway: plasma membrane receptors-ligand-TNF- $\alpha$ /Fas-Fas –binding to start	
the process.	
f. NSAIDs -not prefer in asthma while steroids are used, why?	
Q-4: Explain the following : i) Anti-CCP Antibody Test ii) Mantoux skin test iii) MDR and XDR –TB iv) D calcification	6.0 M strophic and Metastatic
Q-5: How does the heart maintain unidirectional blood flow? Why does papillary musc failure?	le damage result in heart 2.0 M
Q-6: What are the pathological mechanisms based on kidney involvement targeted for t explain with the help of suitable example?	reating hypertension, 3.0 M
Q-7: a) What are the common symptoms of MI? Draw a representative ECG, for the dia de-points patient?	agnosis of MI and Torse 3.0 M
Q-8: How does pyrazinamide work -in Latent TB control?	1.5 M