BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANC	B.PHARM H: PHARMACY	(SEMESTER : VII SESSION : MO/19	
SUBJECT: PS7407 PHARMACOLOGY - IV TIME:3:00 HOURS FULL MARKS: 6			FULL MARKS: 60	
INSTRU 1. The 2. Cano 3. The 4. Befo 5. Tabl	ICTIONS: question paper conta didates may attempt a missing data, if any, ore attempting the qu es/Data hand book/G	ains 7 questions each of 12 marks and total 84 marks. any 5 questions maximum of 60 marks. may be assumed suitably. estion paper, be sure that you have got the correct c raph paper etc. to be supplied to the candidates in th	uestion paper. ne examination hall.	
Q.1(a) Q.1(b) Q.1(c)	Define Chemotherapy Describe the mechan Classify the antimicro	7. ism of action of sulfonamides & cotrimoxazole. obials in detail? Mark your answer with proper examples	s in each category.	[2] [4] [6]
Q.2(a) Q.2(b)	Classify the 1 st line and 2 nd line drugs for the treatment of Tuberculosis. Write a note on the theoretical basis of chemotherapy of tuberculosis. Write the mechanism of action		e the mechanism of action of	[2] [4]
Q.2(c)	Analyses and represent the mechanism of action of a) Rifampicin b) Pyrazinamide c) Ethambutol			[6]
Q.3(a) Q.3(b)	Draw the structure of erythromycin highlighting the glycon and aglycon parts. Discuss the MoA of Macrolide antibiotics in general. Provide some examples of macrolide antibiotics wit the general uses.			[2] [4]
Q.3(c)	Describe the classific	ation of Quinolones in detail. Discuss the mechanism of	faction of Fluroquinolones.	[6]
Q.4(a) Q.4(b) Q.4(c)	Draw the general structure of cephalosporin and penicillin highlighting the B-lactum ring. Classify the cephalosporins with examples of each. Discuss the mechanism of action of cephalosporins and penicillin in detail. What are the therapeutic us of cephalosporins?		3-lactum ring. /hat are the therapeutic uses	[2] [4] [6]
Q.5(a) Q.5(b) Q.5(c)	Define Cancer & Neoplasm. Analyses and represent your answer in flowchart about the Pathogenesis of Cancer highlighting to development of secondary tumors. Classify the anticancer agents in detail along with examples of each type. Also write the mechanism action of alkylating agents.		of Cancer highlighting the Also write the mechanism of	[2] [4] [6]
Q.6(a) Q.6(b) Q.6(c)	 Write a note on treatment of Urinary Tract Infection. Write the sites of action of antifungal drugs. Classify the antifungal agents with examples. Write the mechanism of action of a) cyclophosphamide b) cisplatin c) methotrexate 			[2] [4] [6]
Q.7(a) Q.7(b) Q.7(c)	Analyze and draw a r Write the Drug discov Define Clinical trials	leat flowchart on Drug Discovery & Development -Timel /ery process in detail. in human. Discuss about the different phases of clinical	line. Ltrials in brief.	[2] [4] [6]

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