

SECOND YEAR PHARM. D. DEGREE EXAMINATION - JULY 2018 SUBJECT: PPR 2.1T: PATHOPHYSIOLOGY (REVISED REGULATION 2014) Wednesday, July 18, 2018 (10.00 - 13.00)

Answer ALL the questions.

Marks: 70

1. Long ans	wer questions:	
1A)	Explain the role of various chemical mediators in acute inflammation.	(10)
1B)	Classify urinary tract infection and explain its pathophysiology.	(10)
1C)	Discuss the criteria for major depressive disorder and manic episode as per diagnostic and statistical manual of mental disorder (DSM-IV).	(10)
	swer questions:	
2A)	Discuss the signs and symptoms of chronic renal failure.	(5)
2B)	Describe the mechanisms involved in immune tolerance.	(5)
2C)	Describe the signs and symptoms of Parkinsonism.	(5)
2D)	Discuss various enzymatic and ECG changes in myocardial infarction.	(5)
2E)	Discuss Child-Pugh classification of cirrhosis.	(5)
2F)	Enlist various risk factors and complications associated with pneumonia.	(5)
3. Give reas	sons for the following:	
3A)	Deficiency of vitamin C & Zinc may delay the wound healing.	(2)
3B)	Obstructed urinary catheter may lead to post-renal failure.	(2)
3C)	Rheumatic heart disease may occur following an infection with Streptococcus pyogenes.	(2)
3D)	Hypertensive emergency and hypertensive urgency are different from each other.	(2)
3E)	Tuberculin skin test is used in the diagnosis of tuberculosis.	(2)

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Reg. No.:	
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SECOND YEAR PHARM. D. DEGREE EXAMINATION - JULY 2018 SUBJECT: PBT 2.2T: PHARMACEUTICAL MICROBIOLOGY (REVISED REGULATION 2014) Friday, July 20, 2018 (10.00 - 13.00)

Answer ALL the questions.

Marks: 70		Duration: 180 mins.	
Long answe	Pr questions: Define bacterial growth and enlist the methods of quantitative measurement of growth. Discuss viable count.	(10)	
2)	Define and classify sterilisation. Discuss Gamma radiation sterilisation as under: Source, mechanism of action, sterilisation dose and applications.	(10)	
3)	Define and classify immunity. Give an account of Phagocytosis.	(10)	
	swer questions:		
4A)	Briefly outline the structure of a bacteriophage.	(5)	
4B)	Enlist various methods of preservation of bacterial cultures and explain any two.	(5)	
4C)	Enlist the methods of evaluating bacteriostatic activity of disinfectants and explain any two.	(5)	
4D)	Describe the life cycle of malarial parasite and specify the treatment.	(5)	
4E)	Define immune sera and define the doses used for standardisation.	(5)	
4F)	Write the causative organism, mode of transmission, pathogenesis and treatment for cholera.	(5)	
5. Give reas	sons for the following:		
5A)	Phase contrast microscope helps in differentiating the internal cell structures.	(2)	
5B)	Staphylococcus aureus is not prone to coliform phage attacks.	(2)	
5C)	Fluid thioglycolate medium is used for culturing anaerobic bacteria.	(2)	
5D)	Protoplast of Gram positive bacteria is Gram negative.	(2)	
5E)	Culture medium containing gelatin cannot be sterilised by autoclaving.	(2)	



SECOND YEAR PHARM. D. DEGREE EXAMINATION - JULY 2018
SUBJECT: PCO 2.3T: PHARMACOGNOSY AND PHYTOPHARMACEUTICALS
(REVISED REGULATION 2014)
Tuesday, July 24, 2018 (10.00 - 13.00)

Answer ALL the questions.
Draw structures and diagrams wherever necessary.

Marks: 70

Long answer questions: 1) Explain the role of plant growth regulators in the cultivation of crude drugs. (10)2) Describe the morphology, microscopy and microscopical powder characters of Quassia. (10)3) Give the botanical source, family and uses of Opium; and describe its cultivation and (10)collection 4. Short answer questions: 4A) Compare and contrast between morphological and pharmacological classification of (5) crude drugs. 4B) Describe the preparation of honey, give its botanical source, chemical constituents and (5)uses What are Lipids? Write a note on methods (ANY FOUR) of analysis of fixed oils. 4C) (5)4D) Discuss the chemistry of Proteins. (5)4E) Describe Isapgol under a suitable Pharmacognostic scheme. (5)4F) Give the source, preparation and uses of Absorbent cotton. (5)5. Give reasons for the following: Crude drugs are often substituted with substandard drugs. 5A) (2)5B) Volatile oils are completely different from fixed oils. (2)5C) Pyrethrum need synergistic additions. (2)5D) Calcium oxalate crystals cannot be seen in sections stained with Phloroglucinol and HCl. (2) 5E) 'Dioscorides' is an important name in the history of Pharmacognosy. (2)

Reg.	No.	:	

Duration: 180 mins.



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM. D. DEGREE EXAMINATION - JULY 2018 SUBJECT: PHA 2.4T: PHARMACOLOGY - I (REVISED REGULATION 2014) Thursday, July 26, 2018 (10.00 - 13.00)

Answer ALL the questions.

Draw structures and diagrams wherever necessary.

Marks: 70

Long An	swer Questions.	
1)	How are cardiac arrhythmias generated? Explain the basis of classification of antiarrhythmic drugs. Enumerate the toxicities of amiodarone. $(3+4+3=10 \text{ marks})$	(10)
2)	Describe the metabolic roles of insulin. List the preparations of insulin and explain how they are used to control blood glucose level in diabetics. $(6+4=10 \text{ marks})$	(10)
3)	Discuss the transduction mechanisms of G-protein coupled receptors.	(10)
4. Short	Answer Questions.	
4A)	Describe the mechanisms of action of antidepressant drugs.	(6)
4B)	Mechanisms of action of anticholinesterases, explain.	(6)
4C)	Sodium valproate, its mechanism of action and adverse effects.	(6)
4D)	Succinylcholine and d-tubocurarine - mechanisms of blockade.	(6)
4E)	Mechanisms of drugs used in Parkinsonism.	(6)
5. Give re	Pasons:	
5A)	Adrenaline, administered after $lpha$ -blockers, produces a fall in blood pressure.	(2)
5B)	Alkaline urine enhances excretion of barbiturates.	(2)
5C)	Inhalational steroids are better than systemic steroids.	(2)
5D)	Montelukast and zafirulkast are useful in bronchial asthma.	(2)
5E)	Repeated administration of ephedrine results in progressive decrease in response.	(2)



SECOND YEAR PHARM. D. DEGREE EXAMINATION - JULY 2018 SUBJECT: PPR 2.5T: COMMUNITY PHARMACY (REVISED REGULATION 2014) Saturday, July 28, 2018 (10.00 - 13.00)

Answer ALL the questions.

Marks: 70

Long Answer Questions.				
1)	Explain the components of Pharmacist Workup of Drug Therapy (PWDP) for pharmaceutical care.	(10)		
2)	Explain community pharmacist's role in the care for children and elderly patients.	(10)		
3)	Explain the barriers for patient counseling and write the strategies to resolve them.	(10)		
4. Short Ans	swer Questions:			
4A)	Define health screening services and explain its advantages.	(5)		
4B)	Explain the clinical presentations and prevention of gonorrhea.	(5)		
4C)	Explain role of community pharmacists in dispensing OTC drugs.	(5)		
4D)	Define inventory control and explain VED analysis.	(5)		
4E)	Explain maintenance of financial records in community pharmacy.	(5)		
4F)	Explain the benefits of computers in community pharmacy.	(5)		
5. Give Reas	son for the Following:			
5A)	In ABC analysis 'item A' requires strict control.	(2)		
5B)	Cost of medication is an important factor for patient adherence.	(2)		
5C)	Drug related problems can lead to decrease quality of life.	(2)		
5D)	Patients' religious belief can lead to medication non-adherence.	(2)		
5E)	Home care services is a functional activity of community pharmacist.	(2)		

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SECOND YEAR PHARM. D. DEGREE EXAMINATION - JULY 2018 SUBJECT: PPR 2.6T: PHARMACOTHERAPEUTICS - I (REVISED REGULATION 2014) Tuesday, July 31, 2018 (10.00 - 13.00)

Answer ALL the questions.

Marks: 70

Long Answe	r Questions:	
1)	Explain the management of systemic hypertension according to standard guidelines.	(10)
2)	Mention the various factors contributing to ADRs in the elderly. Explain in detail prescribing guidelines in this population.	(10)
3)	Explain treatment modalities in chronic asthma as per GINA guidelines.	(10)
A Short Ans	wer Questions:	
4A)	Outline various hypolipidemic agents with their efficacy and safety profile.	(5)
4B)	What is Torsade de Pointes? Explain its management.	(5)
4C)	Explain the pharmacotherapy of closed angle glaucoma.	(5)
4D)	What is Diabetic ketoacidosis. Explain the management of the same.	(5)
4E)	Explain the treatment modalities of hyperthyroidism.	(5)
4F)	Enlist different Oral Contraceptive Pills. Describe the important considerations for usage of combined hormonal contraceptives.	(5)
5. Give reaso	ons for the following:	
5A)	Combination therapy is effective than monotherapy for attaining BP targets.	(2)
5B)	ACE inhibitors finds many applications in cardio-vascular medicine.	(2)
5C)	Thyroid storm is differ from myxedema coma.	(2)
5D)	Category X drugs are contraindicated in pregnancy.	(2)
5E)	Drug use in children are different from adults.	(2)

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