PURUS - VII (SEMESTER PATTERN): April - May 2010 SUBJECT: PHARMACOLOGY-IV

Day: Saturday TIME: 2.00 FM TO SOOPM. Max. Marks:80 Date: 15.05-2010 N.B.: Q. No 1 and 5 are COMPULSORY. Out of the remaining attempt any TWO 1) questions from Section-I and any TWO questions from Section-II . Answer to the two Sections should be written in the SEPARATE answer books. 2) Figures to the RIGHT indicate full marks. 3) SECTION-I (10)Give scientific reasons for ANY FIVE of the following Q.1 Rifampicin plus INH a) b) Chloramphenicol c) Penicillin plus streptomycin Acyclovir d) Ofloxacin plus ornidazole e) Amphotericin B and nystatin f) Erythromycin Classify antineoplastic agents on the basis of their specificity or non (08) Q.2specificity for the phases of cell cycle Give the mechanism of action of alkylating agents along with their uses and (07) limitation Describe mode of action, antimicrobial spectrum and adverse effects of (08) Q.3 fluroquinolones Describe mechanism of action of anti-retroviral drugs. Discuss HIV-AIDS (07) treatment guidelines. (15)Write short note on ANY THREE of the following b) Toxicity of tetracycline Antimalarials d) Antiamoebic drugs Antifilarial drugs SECTION - II (10)Answer ANY FIVE of the following Q.5 Define teratogenicity Enumerate major toxicities of oral contraceptives b) Give example of immunosuppressants Classify oral hypoglycaemics d) Mention drugs acting on uterus Give examples of mineralocorticoides Enlist adverse effects of oral hypoglycaemic drugs

Q.6	a)	Describe the mechanism of action, adverse effect and uses of testosterone	(08)
	b)	Discuss the synthesis, actions and uses of thyroid hormones	(07)
Q.7	a)	Describe the action, adverse effects and indications of insulin	(08)
	b)	Explain the drugs for paediatric therapy	(07)
Q.8	Write short note on ANY THREE of the following		(15)
	a) c)	Preparations of oral contraceptives b) Hormones of anterior pituitary Toxicity of glucocorticosteroids d) Antiestrogens	

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PURUS-VIII (SEMESTER PATTERN) : APRIL/ MAY 2010 SUBJECT : MEDICINAL CHEMISTRY-IV

: Thursday Time: 2:00 P.M. To 5-00 P.M Max. Marks: 80. Date :06-05-2010 N.B.: 1) Q. No. 1 and Q. No. 5 are COMPULSORY. Out of the remaining attempt TWO questions from Section-I and any TWO questions from Section-II. Figures to the RIGHT indicate full marks. Answers to both sections should be written in SEPARATE answer books. SECTION-I (10)O.1 Answer any FIVE of the following: Search out synthetic pathway for Mephenamic acid. Give chemical classification of NSAID. Write down synthesis of Tolbutamide or Chloropropamide. Give any two examples along with at least one structure of synthetic Narcotic analgesic. Write down any two structures of NSAID from salicylic acid class. Applications of QSAR. f) Q.2 Explain in brief chemistry, SAR, MOA, uses and side effects of Narcotic analgesic (15) containing phenanthrene basic nucleus. (06)Explain - pyrazolidinedione as NSAID. (09)Give an account of thyroid hormones. (15)Q.4 Write short notes on any THREE of the following: Diagnostic agents used to check liver function test Molecular modeling b) Narcotic antagonist c) CADD. **SECTION-II** (10)Answer any **FIVE** of the following: Write down structure and IUPAC name of any one - Betamethasone, Estradiol. Write down synthesis of Tripelennamine. b) Write down structure of Dicoumarol or warfarin. Work down synthesis of any one Nonsteroidal Estrogens. d) Give applications of Antihistaminic agents. e) Write down structure of cemetidine. Q.6 What are glucocorticoids? Give their chemistry, SAR, MOA and functions of (15) Glucocorticoids. Q.7 Draw general structure of Antihistaminic agents. Give an account of agents from (15) Amino Alkyl Ether and Ethylene diamine class. (15)Q.8 Write short notes on any THREE of the following: Coumarin derivatives as Anticoagulants Nomenclature of prostaglandins Female sex hormones d) Combinatorial chemistry.

PURUS – VIII (SEMESTER PATTERN): APRIL / MAY 2010 SUBJECT: DRUG REGULATORY AFFAIRS

: Friday Day Time: 2:00 P. M. To 5:00 P.M. Max. Marks: 80 Date: 14-05-2010 N.B.: Q.No.1 and Q.No.5 are COMPULSORY. Out of remaining questions attempt 1) ANY TWO from each section. Answers to both the sections should be written in the SEPARATE answer books. 2) 3) Figures to the right indicate FULL marks. SECTION-I 0.1 Answer the following: [10] a) What is meant by extent of act? b) What is patent and proprietary medicine? c) Write major amendments to Indian Patents Act, 1970. d) Name any two psychotropic substances. e) What is first register? O.2 a) Describe in brief Central Administrative Agencies for Drugs and Cosmetics [08] b) Explain qualifications, duties, procedures and powers of drug inspector. [07] Q.3 a) Explain provisions for bonded laboratory. [08] b) Explain the provisions given under schedules of Drug price control order. [07] 0.4 Prepare notes on: [15] a) Provisions for cosmetics b) Pharmaceutical policy c) Education Regulations 1991 SECTION - II [10] Answer the followings: 0.5 Enlist prohibited operations under Narcotic drugs and psychotropic substances b) What is a misbranded drug? c) What is a bulk drug? d) What are objectionable advertisement? e) Write provision for labelling of veterinary products. O.6 a) Give a comprehensive idea about schedule Y of DC act. [08] [07] b) Explain provision of Indian Patent Act 2005. [08] O.7 a) Describe the standards for: iii) Homoeopathic drug iv) Veterinary drug. i) Drug ii) Ayurvedic drug [07] b) What is code of pharmaceutical ethics? [15] Prepare notes on: 0.8 a) Export of Drugs b) Offences under Pharmacy Act c) First schedule of Drug and Cosmetics act

PURUS – VIII (SEMESTER PATTERN): APRIL / MAY 2010 SUBJECT: PHARMACEUTICAL MANAGEMENT

Day Date		Monday 17-05.2010	Time: 2:00 P. M. To 5:00 P. Max. Marks: 80.
N.B.	2 3	ANY TWO questions from each section. Answers to both the sections should be written.	
		SECTION - I	
Q.1		Answer ANY FIVE of the following:	[10]
	a) b) c) d) e) f)	Enumerate the differences between Dunkel Text State objectives of finance management. What is structured communication? Enumerate qualities of creative manager. What is Line and Staff relationship? Give a brief account of MBO Define matrix organization	and GATT.
Q.2	a)	Discuss the various theories of motivation.	[10]
	b)	Comment on 'Decentralization of authority'.	[05]
Q.3	a)	Discuss departmentation by function and territor	y. [08]
	b)	Give a brief account of growth of pharmacy prof	Fession in India. [07]
Q.4		Write short notes on ANY THREE of the follow	ving: [15]
	a)b)c)d)e)	Types of policies Performance appraisal in Industry Leadership style and behaviour Recruitment in organization Organization in industry	
		SECTION - II	
Q.5		Answer ANY FIVE of the following:	[10]
	a) b) c) d) e)	State meaning and importance of inventory. State the importance of Lead time. What is process validation? Define 'SOP'. Enlist preamble of GLP.	

Q.6 Solve the following example and identify normal as well as crash critical path [15] with time and money involved.

Activity	Tim	ne	Money	
	Normal	Crash	Normal	Crash
$1 \rightarrow 2$	6	4	4,000	6,000
$1 \rightarrow 3$	4	2	6,000	8,000
$2 \rightarrow 3$	4	3	5,000	8,000
$3 \rightarrow 4$	6	4	8,000	10,000
$4 \rightarrow 5$	2	1	4,000	6,000

- Q.7 All well pharmaceuticals manufactures ethambutol tablets with a batch size [15] 1,00,000 tablets. The selling price per tablet is Rs. 1.0. Total variable cost is Rs. 20,000. Fixed cost is Rs. 30,000. Calculate:
 - a) P/V ratio
 - b) BEP
 - c) BEP if selling price is increased by 20%
 - d) Operating sales at profit Rs. 20,000
 - e) Profit at operating sales Rs. 80,000
 - f) Margin of safety
- **Q.8** Write short notes on **ANY THREE** of the following:

[15]

- a) Product life cycle
- b) Merits and demerits of ISO 9000-2001
- c) Promotional methods of drug
- d) Methods of inventory control
- e) Techniques of improvement in productivity