GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination: November - 2015

Pharmaceutical Biochemistry

Date: 30-11-2015

Monday

Time: 09:30 A.M. to 12:30 P.M.

Marks: 100

Ir	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Write difference between eukaryotic and prolearyotic cell.	10
2.	Answer any one out of two questions. A. Write a note on gluconeogenesis. B. Describe in detail the structure of antibody.	10
3.	 Write a short note on any Four of the following: A. Write a note on free radicals and antioxidants. B. Write a note on pl value of amino acids. C. What are the factors affecting the degree of antigenicity of an antigen? D. Write the differences between plant and animal cell. E. Write a note on riboflavin. 	20
4.	Answer any Five of the following: A. What are the important features of adaptive immunity? B. Define non-reducing sugar. Give examples. C. What are the differences between RER and SER? D. What is the pI value of an amino acid? E. Define positive nitrogen balance and negative nitrogen balance. F. What is facilitated diffusion? Give examples.	10
	SECTION-B	
5.	Write a note on liver function test.	10
6.	Answer any one out of two questions. A. What are xenobiotic? Write the phase I and II reactions. B. Write a note on replication of DNA in prokaryotes.	10
7.	 Write a short note on any Four of the following: A. Write the classification of fatty acids. B. Describe the signal transduction process in a neuron. C. Write about the various factors affecting enzyme activity. D. Describe the structure of DNA. E. Write a note on iron and potassium as minerals in our body. 	20
8.	Answer any Five of the following: A. Define Km value and give its importance. B. Define codon. C. Define MUFA and PUFA. D. What is depolarisation and hyperpolarisation of neuron? E. What is the importance of DNA polymerase and DNA ligase.? F. Write the importance of calcium as an element in our body.	10

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination: November - 2015

Pharmaceutical Technology of Ayurvedic Drugs - II					
	e: 01-12-2015 Time: 09:30 A.M. to 12:30 P.M. sday Marks: 100				
Ir	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.				
	SECTION-A				
1.	Discuss the importance of pre-formulation studies and aspects involved while formulating a tablet.	10			
2.	 Answer any one out of two questions. A. What are the requirements and regulatory aspects for stability study? What are the effects and limits of overages in a product? B. Define and classify tablet with one commercial example each. What are the granulation technique and evolution parameters as per IP 14. 	10			
3.	 Write a short note on any Four of the following: A. What is incompatibility? B. Enumerate the excipients used in tablets with examples and limits. C. Advantages of film coating tablets over sugar coated tablets. D. How will you prepare a master manufacturing procedure? E. What are the GMP consideration pilot plant scale up studies? 	20			
4.	Answer any Five of the following: A. What are the coating techniques of tablets? B. What are the organic incompatibilities? C. What is the self-life of powder, granules, tablets and capsules? D. What is the importance of surfactence in pharmaceuticals? E. What are enteric coated tablets? F. How will you rectify a chemical incompatibility?	10			
	SECTION-B				
- 5.	Describe inserts, implants in aerosols with its advantages-disadvantages.	10			
6.	 Answer any one out of two questions. A. Discuss importance of packing material. What are the ideal requirement for closers for glass and plastic containers? How will you evaluate containers? B. Discuss parental dose form elaborately. Draw an ideal layout for production of parenteral product. 	10			
7.	 Write a short note on any Four of the following: A. What is an osmatic drug delivery system? B. What is micro encapsulation and techniques to archive micro encapsulation? C. What is a soft gelatine capsule and how we may load actives in it. D. What are the evaluation techniques involved in sustain release products? E. What is floating tablet delivery system? 	20			
8.	Answer any Five of the following: A. What is pyrogen? B. What is biological half life? C. What is the concept behind muco-adhesive drug formulation?	10			

What is co-acervation in micro encapsulation?

Draw a flow diagram for aerosol production.

What are chilled resistance containers?

D.

E. F.

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B. Pharm(Ayu.) Final Year Examination: November - 2015

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 02-12-2015 Wednesday	Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
Instructions: 1. Every question is compulso 2. Every question bears the ma		
SEC	TION-A	
 Describe pathophysiology and classify d 	rugs used for congestive cardiac failure. 10	
 Answer any One out of two questions. A. Define hypertension, classify anti-h B. Enlist respiratory disorders, classify mechanism of action. 	ypertensive agents. y drugs used for asthma and describe their	
3. Write a short note on any Four of the fo	liowing: 20	
 A. Anti-arrhythmic agents. B. Blood clotting mechanism. C. Ayurvedic drugs used in cold and cold. D. Diuretics. E. Angina pectoris. 	ough.	
4. Answer any Five of the following:	. 10	
 A. Ayurvedic drugs used in heart disea B. Drugs affecting renal functions. C. Anaemia. D. Central cough suppressants. E. Vasodilators. F. Functions of blood. 	ises.	
SEC	CTION-B	
5. Write general mechanism of action of ar	ntimicrobial agents. 10	
 Answer any One out of two questions. A. Anti-viral agents and drugs used for B. Enlist antimalarial agents, explain 1 		
 7. Write a short note on any Four of the fo A. Skin diseases and important drugs to B. Non-steroidal anti-inflammatory ag C. Thyroid hormones. D. Cancer & important anticancer drug E. Hormones of hypothalamus. 	used for its treatment. ents.	
8. Answer any Five of the following:	10	
 A. Ayurvedic drugs used in cancer. B. Ayurvedic drugs used in diabetes m C. Specific COX-II inhibitors. D. Immunomodulators. 	nellitus.	
E. Antifungal agents.F. Emollients.		