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SEAT No. _____

No. of Printed Pg.: 2

[46/A-16]

SARDAR PATEL UNIVERSITY
B.Sc. Industrial Chemistry Vocational
Semester-VI, APRIL 2018 Examination
PHARMACEUTICAL - II

Date: 04/04/2018, Wednesday

Subject Code: US06CICV05

Time: 10:00 a.m. to 01: 00 p.m.

Total Marks: 70, Total - 02 Pages

10

Q.1 Select the correct option.

- I. _____ are the structural units of nervous system, comprising of fibers which convey electric impulse to nerve cell.
(a) neurons (b) dermatitis (c) spinal cord (d) neutrons
- II. Chemotherapeutic agents are used in treatment of _____ disease.
(a) Infectious (b) Metabolic (c) Cardiac (d) Genetical
- III. Extensive drug binding in body occurs in _____.
(a) Liver (b) Kidney (c) Blood (d) Pancreas
- IV. Which of the following is a derivative of salicylic acid?
(a) Paracetamol (b) Aspirin (c) Oil of winter green (d) Both (b) and (c)
- V. Which of the following can be used in the treatment of leprosy?
(a) Sulphathiazole (b) Sulphadoxine (c) Sulphapyridine (d) Sulphadiazine
- VI. Ethyl ether of paracetamol is known as _____.
(a) Analgin (b) Phenyl butazone (c) Phenacetin (d) Naproxen
- VII. IUPAC name of vitamin A1 is _____.
(a) Retinol (b) Retinoic acid (c) Retinal (d) Dehydroretinol
- VIII. Which of the following hormone is secreted in Pancreas?
(a) Thyroid (b) Ovaries (c) Testes (d) Insulin
- IX. The substance, containing microorganism or other material that is introduced in inoculation is known as _____.
(a) Medium (b) Culture (c) Inoculum (d) Agar
- X. In aerobe condition, oxygen required by organisms is _____.
(a) 12% (b) 20% (c) 21% (d) 31%

(P.T.O)

(1)

Q.2	Answer the following in short (ANY TEN)	20
I.	Write down the characteristics of an ideal drug.	
II.	Define Chemotherapeutic drugs with examples.	
III.	Explain effect of acidic group on chemical activity of drug.	
IV.	Define Anti-inflammatory drugs and give two examples.	
V.	Tabulate the commonly used sulfa drugs with their name and groups.	
VI.	Write the synthesis of analgin.	
VII.	Enlist the classification of hormones.	
VIII.	Give structure and function of Vitamin C.	
IX.	Enlist the classification of vitamin.	
X.	Define Medium and Incubation.	
XI.	Enlist the types of microorganisms on the basis of response to gases oxygen.	
XII.	Enlist the various factors affecting the fermentation process.	
Q.3	a. Differentiate between Chemotherapeutic agents and Pharmacodynamic agents.	05
	b. Explain in detail the effects of Nitro group and Halogens on chemical activity of drug.	05
	OR	
Q.3	a. Explain in detail classification of drugs on the basis of therapeutic action.	05
	b. Write a note on drug administration and drug dosage form.	05
Q.4	a. Write synthesis of Succinylsulphathiazole and Pthalylsulphathiazole.	05
	b. Give the manufacture and synthesis of Ibuprofen.	05
	OR	
Q.4	a. Explain mode of action of Anti-pyretics and Analgesics.	05
	b. Write a brief note on Anti-fungal agents.	05
Q.5	a. Give classification of vitamins. Discuss occurrence, properties and deficiency diseases of vitamin A.	05
	b. Give the classification of hormones and discuss the sex hormones.	05
	OR	
Q.5	a. What is a hormone? Explain the function of it. Enlist various names of glands where it secreted.	05
	b. Discuss occurrence, functions and deficiency diseases of vitamin B1 and vitamin B2.	05
Q.6	Explain the development of inoculum and enlist the characteristics of Enzymes.	10
	OR	
Q.6	Explain the properties, structure and activity of Penicillin.	10