

[A-92]

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## Sardar Patel University

B. Sc. ( Semester – VI ) Examination

Date: 06<sup>th</sup> April 2016, Wednesday.

Time: 02:30 to 05:30pm

Industrial Chemistry Vocational

**COURSE NO: US06CICV05 (PHARMACEUTICAL - II)**

Notes: Figures to the right indicate full marks.

Total marks: 70

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Q.1 Answer the following Multiple Choice Questions. (All are compulsory)

(10)

1. An ideal drug should satisfy which requirement?
  - A. It should have toxicity.
  - B. It should have maximum side effects.
  - C. It should not water soluble.
  - D. It should not injure host.
2. Formaldehyde is used by \_\_\_\_\_.
  - A. Psychiatrist
  - B. Taxidermist
  - C. Economist
  - D. None of them.
3. In body where drug binding occurs?
  - A. Blood
  - B. CNS
  - C. Liver
  - D. Brain
4. Alpha drugs have been replaced by \_\_\_\_\_.
  - A. Antipyretics
  - B. Antibiotics
  - C. Antiviral
  - D. Antileprosy.
5. \_\_\_\_\_ is used as an Antipyretic and Anti-inflammatory drug.
  - A. Aspirin
  - B. Methyl salicylate
  - C. Paracetamol
  - D. Phenacetone.
6. The ethyl ether of paracetamol is.....
  - A. Phenacetone
  - B. Paracetamol
  - C. Nitro phenol
  - D. None of these.
7. How many International units of vitamin A1 are required for pregnant women?
  - A. 7000
  - B. 700
  - C. 1500
  - D. 70.
8. Vitamin D<sub>2</sub> is isolate from:
  - A. Lumisterole
  - B. Vitamin D1
  - C. Ergosterole
  - D. Calciferol.
9. Which of following is needed for the biosynthesis of cysteine?
  - A. Oxygen
  - B. Carbon
  - C. Nitrogen
  - D. Sulphur
10. Which of following is needed for the synthesis of nucleic acid?
  - A. Sulphur
  - B. Carbon
  - C. Nitrogen
  - D. Phosphorus

Q.2 Answer the following short questions. (ANY TEN) (20)

1. Define term drug.
2. What mean by Drug addiction?
3. Define term Pro-drug. Give suitable example.
4. Give the synthesis of Sulphathiazole drug.
5. Define term anti-inflammatory drugs.
6. Enlist examples of Analgesic drug.
7. Differentiate narcotics and non-narcotics drugs.
8. Define and give an example of Steroids.
9. Explain the term Antibiotic.
10. Define Inoculum & Sterilization.
11. Outline various chemical elements used for cell growth.
12. Enlist different factors affecting the fermentation process.

Q.3 Give detail classification of Drugs. (10)

OR

Q.3 Discuss the effect of various functional groups in the drug molecule. (10)

Q.4 Giving examples of N<sup>1</sup> and N<sup>4</sup> substituted Sulfa drug, explain various sulfa drug synthesis. (10)

OR

Q.4 Write a notes on Antipyretics and Anti-inflammatory drugs. (10)

Q.5 Giving structure, write about the occurrences, deficiency disease and properties of Vitamin-A, C and D. (10)

OR

Q.5

- A. Write note on the Classification of Antibiotic. (05)
- B. Give the classification of Hormones and discuss the non-steroid hormones. (05)

Q.6 Write manufacturing process of Penicillin and Tetracyclins. (10)

OR

Q.6 Write notes on following. (10)

- A. Culture development and Inoculums.
- B. Chemical elements as nutrients for microorganism and
- C. Toxic effects on culture.

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