

Seat No. \_\_\_\_\_

No. of Printed Pages: 2

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SARDAR PATEL UNIVERSITY  
T.Y. B.Sc. (Semester VI) Examination

Date: 28<sup>th</sup> March 2018, Wednesday

Time: 10:00 AM to 1:00 PM

Industrial Chemistry

COURSE NO. US06CICH02 (Pharmaceuticals)

Note: Figures to the right indicate full marks

Total Marks: 70

Q.1 Answer the following Multiple Choice Questions. (All are compulsory) (10)

1. A low form of vegetable life is \_\_\_\_\_
  - A. Fungi
  - B. Virus
  - C. Bacteria
  - D. Antimetabolites
2. Formaldehyde is used by \_\_\_\_\_
  - A. Psychiatrist
  - B. Taxidermist
  - C. Economist
  - D. None of them
3. Sulpha drugs have been replaced by \_\_\_\_\_
  - A. Antipyretics
  - B. Antiviral
  - C. Antibiotics
  - D. Antileprosy
4. \_\_\_\_\_ is used as an analgesic, antipyretic and anti-inflammatory drug.
  - A. Aspirin
  - B. Methyl Salicylate
  - C. Phenacetene
  - D. Paracetamol
5. Which of the following is not a fat soluble Vitamin?
  - A. Vitamin C
  - B. Vitamin D
  - C. Vitamin E
  - D. Vitamin A
6. Which of the following hormone is secreted in Pancreas?
  - A. Thyroxine
  - B. Insulin
  - C. Parathormone
  - D. Adrenaline
7. Which of the following is needed for the synthesis of Nucleic acid?
  - A. Sulphur
  - B. Carbon
  - C. Phosphorus
  - D. Nitrogen
8. Which of the following destroys ferment and retards fermentation?
  - A. Additives
  - B. Culture
  - C. Agar
  - D. Preservatives
9. Deficiency of Vitamin C causes \_\_\_\_\_
  - A. Scurvy
  - B. Beriberi
  - C. Rickets
  - D. Night Blindness
10. Paul Ehrlich discovered \_\_\_\_\_
  - A. Magic Train
  - B. Magic Bullet
  - C. Bullet
  - D. Plane

①

(P.T.O.)

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

1. How does neuron transmitter work?
2. Why cocaine is an important anaesthetic while its analogous methyl ester is inert?
3. What is drug? Give the requirements for an ideal drug.
4. Write the name and structure of any four sulpha drugs.
5. Write a detail note on Methyl Salicylate with preparation.
6. Differentiate between Narcotics and Non-Narcotics.
7. Draw and explain Visual Purple Cycle.
8. Give the differences between Vitamins and Hormones.
9. What is folic acid? Give its Occurrences, Function, Structure and Deficiency diseases.
10. Define the terms Culture and Sterilization.
11. What are the prerequisites of good fermentation process?
12. Explain any two microorganisms on the basis of response to oxygen gas.

Q.3. Give the classification of drugs on the basis of their therapeutic actions. (10)

OR

Q.3. (A) Differentiate between Chemotherapeutic and Pharmacodynamic agents (4)

(B) Discuss the effect of Aldehyde, Ketone and Halogen in the drug molecule. (6)

Q.4. Give the classification of sulpha drugs and uses of sulpha drugs. (10)

OR

Q.4. Write down the synthesis of Analgin and Ibuprofen (10)

Q.5. Explain the term Vitamin. How they are classified? Write the occurrences, functions and deficiency disease of Vitamin K and Vitamin B<sub>12</sub> (10)

OR

Q.5. Give the classification of Hormones and discuss in detail about Male Sex Hormones (10)

Q.6. (A) Discuss about the chemical elements as nutrients for microorganisms (5)

(B) Give the characteristics of Enzymes (5)

OR

Q.6. (A) Explain the manufacture, properties and uses of Citric acid (5)

(B) Discuss the development of Innoculum (5)

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(2)