

[65/A-11]

SEAT No. _____

Seat No. _____

No. of Printed Pages: 2

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

Date: 27th March 2019, 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. Paul Ehrlich discovered _____
 - A. Magic Train
 - B. Magic Bullet
 - C. Magic Car
 - D. Magic Plane
2. The point of communication between two adjacent neurons is called _____
 - A. Impulses
 - B. Transmitters
 - C. Nerves
 - D. Synapse
3. Drug binding in body occurs in _____
 - A. Blood
 - B. Liver
 - C. CNS
 - D. Brain
4. The drug which is used to lower the body temperature is called _____
 - A. Sulpha drug
 - B. Antifungal drugs
 - C. Analgesics
 - D. Antipyretics
5. The ethyl ester of paracetamol is known as _____
 - A. Phenacetine
 - B. Nitrophenol
 - C. Aspirin
 - D. Disprin
6. Sulpha drugs have been replaced by _____
 - A. Antipyretics
 - B. Antiviral agents
 - C. Antibiotics
 - D. Antilepral agents
7. Deficiency of Vitamin C leads to _____
 - A. Beriberi
 - B. Scurvy
 - C. Night Blindness
 - D. Rickets
8. IUPAC name of Vitamin A₁ is _____
 - A. Retinol
 - B. Retinal
 - C. Retinoic acid
 - D. Dehydroretinol
9. Which of the following is needed for the synthesis of nucleic acid?
 - A. Sulphur
 - B. Nitrogen
 - C. Carbon
 - D. Phosphorus
10. The preservation of biological specimen by rapid freezing and rapid dehydration in a high vacuum is known as _____
 - A. Inoculation
 - B. Incubation
 - C. Lyophilization
 - D. Sterilization

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

1. Explain the terms: Mutation and Pharmacophore
2. Differentiate between Virus and Bacteria
3. Define the terms: Receptor and Antiviral agents
4. Describe the uses of Phenacetine and Analgin.
5. Explain Analgesics and Anti-inflammatory agents.
6. Give the synthesis of Sulphacetamide.
7. Write in brief about Sex hormones.
8. Write a note on Vitamin K.
9. Draw and explain Visual Purple Cycle.
10. Define the terms: Aerobe and Anaerobe
11. What are the prerequisites of good fermentation process?
12. Define the terms: Sterilization and Inoculum

Q.3. Explain the effect of Alkyl group when it substitutes active hydrogen in the drug. (10)

OR

Q.3. (A) Write a note on Chemotherapeutic agents (5)

(B) Explain routes of drug administration and drug dosage. (5)

Q.4. Give the classification of sulpha drugs from the therapeutic point of view and also write the uses of sulpha drugs. (10)

OR

Q.4. Write down the synthesis of Phthalyl sulphathiazole and Succinyl Sulphathiazole from acetanilide (10)

Q.5. Write a biological note on Vitamin A, Vitamin K and Vitamin C (10)

OR

Q.5. Give the classification of Vitamins and discuss about vitamin B₁₂ and Vitamin E (10)

Q.6. Discuss about the factors affecting the rate of fermentation. (10)

OR

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

(B) Discuss any five characteristics of enzymes. (5)

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