

SEAT No. \_\_\_\_\_



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[ 20 ]

**Sardar Patel University**  
B. Sc. ( SEMESTER – VI ) Examination  
Industrial Chemistry

Date: 24/06/2022

Time: 10:00 to 12:00

**COURSE NO: US06CICH02 ( PHARMACEUTICALS )**

Notes: Figures to the right indicate full marks.

Total marks: 70

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

1. In body where drug binding occurs?  
A. Blood  
B. CNS  
C. Liver  
D. Brain
2. Chemotherapy means.....  
A. Chronic tumor  
B. Chemical treatment  
C. Antiseptic agent  
D. Hematological agent
3. The point of communication between two adjacent neuron is .....  
A. Impulses  
B. Nerve  
C. Synapse  
D. Transmitters
4. The drug which is used to lower the body temperature is known as .....  
A. Sulpha drug  
B. Analgesic  
C. Antifungal  
D. Anti-pyretic
5. .... is used as an analgesic, antipuretic and anti inflammatory drug.  
A. Aspirin  
B. Methyl salicylate  
C. Paracetamol  
D. Phenacetene
6. Ibuprofen is known as .....  
A. Isobtyl chloride  
B. Isobutyl bromide  
C. Diclofen  
D. Brefen
7. Which of following is not a fat soluble vitamin?  
A. Vitamin D  
B. Vitamin C  
C. Vitamin E  
D. Vitamin A
8. Which of following is water soluble vitamin?  
A. Vitamin A  
B. Vitamin D  
C. Vitamin B-complex  
D. Vitamin K

9. The preservation of biological specimens by rapid freezing and rapid dehydration in a high vacuum is known as.....
  - A. Inoculation
  - B. Lyophilisation
  - C. Incubation
  - D. Sterilization
10. The subjecting of cultures of microorganisms to conditions favorable to their growth.
  - A. Inoculation
  - B. Lyophilisation
  - C. Incubation
  - D. Sterilization

Q.2 Are the following statements True Or False? (All are compulsory) (08)

1. An ideal drug must do not have toxicity.
2. In body drug binding occurs at blood.
3. Virus can be classified.
4. The drug which is used to lower the body temperature is known as "Sulpha drug"
5. Aspirin is used as an analgesic, antipyretic and anti-inflammatory drug.
6. Soluble aspirin is known as "Aspirin C".
7. IUPAC name of vitamin A2 is "Retinol".
8. Vitamin K is water insoluble vitamin.

Q.3 Answer the following SHORT QUESTIONS. (Any Ten) (20)

1. Define term "Mutation".
2. What mean by "Drug addiction".
3. Define term "Pharmacophore".
4. Enlist Antipyretic drug.
5. Explain briefly Analgesic drug.
6. Differentiate term Narcotics and Non-narcotics drugs.
7. Define term "Hormones".
8. Give properties and structure of Vitamin-A2.
9. Explain the term "Antibiotic".
10. Defineterm "Sterilization".
11. Enlist factors affecting the fermentation process.
12. What mean by "Anaerobic Microorganisms".

Q.4 Write a notes on following. (Any Foure) (32)

1. Relation of chemical structure and chemical activity of drug
2. Classification of drugs.
3. Sulfa drug
4. Antifungal and Anti-inflammatory drugs.
5. Classification of hormones
6. Water soluble Vitamins and its properties and uses.
7. Chemical elements as nutrients for microorganism and Physical conditions required for cultivation of microbes.
8. Manufacture process of Citric acid.