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SEAT No. _____



No. of Printed Pages: 02

Sardar Patel University

B. Sc. (Semester – VI) Examination

Date: 4th April 2022, Monday

Time: 03:00 – 05:00 PM

Industrial Chemistry Vocational

COURSE NO: US06CICV21 – Synthetic Dyes and Drugs

Notes: Figures to the right indicate full marks.

Total marks: 70

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

- Acid dyes are suitable for fibers having group.
A. Basic
B. Acidic
C. Neutral
D. All of them
- Basic dyes are protonated under condition.
A. Acidic
B. Basic
C. Neutral
D. All of them
- Any group or factor that produces the deepening of the colour is known as.....
A. Bathochrome
B. Chromogen
C. Hypsochrome
D. Auxochrome
- What is Mordant ?
A. A dye color that bites into the fibers
B. Chemicals that stop the dye process
C. A metallic ion or salt added to the dye bath
D. Florescent blighting agent
- Azo dye is formed in:
A. One step
B. Two steps
C. Three steps
D. Four steps
- Orange-II is prepared by coupling of diazonium salt of sulphinilic acid with
A. Alpha Naphthol
B. Beta Naphthol
C. Phenol
D. Aniline
- The First edition of Indian Pharmacopoeia was published in
A. 1955
B. 1996
C. 1975
D. 1985
- dosage form is considered as most convenient for patient.
A. Solid
B. Intravenous
C. Rectal
D. Intra Spinal
- Blood contains% of protein
A. 6.5
B. 5.6
C. 6.9
D. 6.0
- Which of the following group is used in drugs used for lowering blood pressure?
A. Nitro
B. Nitrite
C. Nitrile
D. Halogens



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(P.T.O)

Q.2 Are the following statements (All are compulsory)

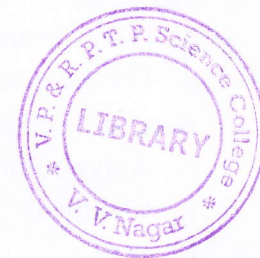
(08)

1. Acid dye are usually the sodium saltsof the color acids.True Or False?
2. Reactive dyes formcovalentbond with fibers possessing hydroxyl and amino group. True Or False?
3. Chrysoidine dye is prepared by coupling benzene diazonium chloride with meta phenylenediamine. True Or False?
4. Chromium is the most widely used metal in mordent azo dye.True Or False?
5. Light sensitive formulation cannot be stored in glass material.True Or False?
6. Sugar based solid dosage form is known as suppositories. True Or False?
7. Acetyl salicylic acid is mainly used as topical anti-inflammatory drug. True Or False?
8. Drug molecule is transported in the body by fat molecules. True Or False?

Q.3 Answer the following short questions (Attempt Any 10 out of 12)

(20)

1. Give minimum requirements of coloring substances to be a dye.
2. Define term "Dependent chromophores".
3. Define term "Bathochromic Auxochrome."
4. Indicate medium and position of coupling in "H-acid"
5. Indicate medium and position of coupling in "Resorcinol"
6. Enlist the various limitations of Reactive dyes.
7. What is tap density and true density?
8. Write role of Pharmacopoeia.
9. Enlist various types of formulations.
10. Define term "Prodrug".
11. Define term "Pharmacophore".
12. Define term "Chemotherapeutic drugs".



Q.4 Write a notes on following: (Attempt Any 04 out of 08)

(32)

1. Classification of dyes according to their mode of application.
2. Postulates of valance bond theory for color.
3. Vat dyes.
4. Classification of Reactive dyes.
5. Indian pharmacopoeia
6. Selection of packaging material and Characteristics.
7. Molecular pharmacology
8. Chemotherapeutic agents and Pharmacodynamic agents.

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