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Sardar Patel University

B. Sc. (Semester – VI) Examination

Date: 15-07-2021, Thursday

Time: 10:00-12:00

Industrial Chemistry Vocational

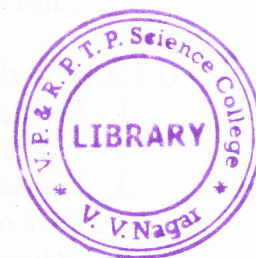
COURSE NO: US06CICV21 (Synthetic Dyes and Drugs)

Notes: Figures to the right indicate full marks.

Total marks: 70

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

- Exhaustion means.....
 - The dyes have the same depth at all parts of the fiber.
 - Transfer of dye from dye bath to the fiber.
 - Addition of acid to the dye bath.
 - None of these
- The groups, which leads to the deepening color of organic substance called...
 - Chromophores.
 - Auxochromes.
 - Oxidized groups.
 - Chromogen
- Acid dyes are...
 - The sodium salts of sulphonic and carboxylic acids
 - Water insoluble cationic dyes.
 - Insoluble azo-dyes.
 - Applied by the use of metal ion
- The stability of diazonium salt decrease by inserting of.....
 - Electron releasing groups in the benzene ring.
 - Electron accepting groups in the benzene ring.
 - Neutral groups in the benzene ring.
 - None of these
- The Hathi Committee was appointed in February 1974, consisted ofmembers.
 - 50
 - 15
 - 12
 - 11
- The specific terms and references of Hathi Committee did not include.....
 - To enquire into the progress made by the industry
 - To recommend institutional and other arrangements to ensure equitable distribution of basic drugs
 - To recommend measures for providing essential drugs and common house hold remedies
 - To promote import of drugs and their distribution
- The First edition of Indian Pharmacopoeia was published in _____
 - 1955
 - 1996
 - 1975
 - 1985
- Metabolism process takes place in _____.
 - Heart
 - Kidney
 - Liver
 - Brain
- pH of blood is _____
 - 6.8
 - 7.4
 - 7.9
 - 8.2
- _____ are the structural units of nervous system, comprising of fibres which convey electric impulse to nerve cells.
 - Neuron
 - Mitochondria
 - Golgi Body
 - Ribosomes

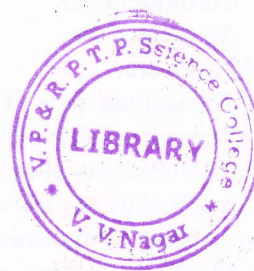


Q.2 Answer the following: (08)

1. A dye or dye stuff is usually a Coloured organic compound or mixture. True / False?
2. Acid dyes are used to dye fibers having basic group. True / False?
3. Reactive dyes forms Covalent bond with fibers possessing hydroxyl and amino group. True / False?
4. If the light reflected completely the substance will appear white True / False?
5. Indian pharmacopeia is a reference guide for import of drugs in India. True / False?
6. Oral route of drug administration is helpful to bypass first pass metabolism. True / False?
7. Hormones play vital role in communication of CNS and PNS. True / False?
8. Analgesic drugs tend to increase blood flow in peripheral parts of human body. True / False?

Q.3 Answer the following short questions (Any Ten). (20)

1. Define term Dye.
2. Explain a colour of Phenolphthalein.
3. Define the term "Colour".
4. Give one example of "A→E" type azo dyes.
5. Indicate medium and position of coupling in J-acid.
6. Write a reaction for indirect diazotization reaction.
7. Define: Drug and Prodrug
8. Write down the characteristics of an ideal drug
9. Explain Biotransformation of drug
10. Enlist various types of formulations.
11. Give suitable examples of Thermoset plastics.
12. Define Lubricants. Give one example.



Q.4 Attempt any four questions. (32)

1. Give detail classification of the dyes according to their method of applications.
2. Give detail classification of the dyes according to their chemical constitution.
3. Give Write a note on Anthraquinone Vat dyes.
4. Write a note on Lapworts notation giving one example in each class?
5. What is pharmacopoeia and write the role & content of pharmacopoeia?
6. Write note on selection of packaging material and give their characteristics.
7. Write the classification uses of various sulfa drugs.
8. Give the synthesis of Paracetamol & Acetaphenetidine.

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(2)