

[124] SEAT No. \_\_\_\_\_



No. of Printed Pages: 02

SARDAR PATEL UNIVERSITY  
B. Sc. Examination (Sixth semester)  
US06CICH21 (Synthetic dyes and Pharmaceuticals)

Date: 04 / 04 / 2022 (Monday)

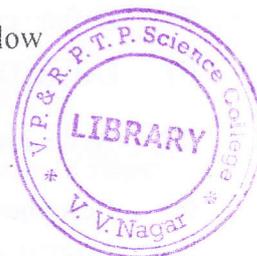
Time: 03.00 pm to 05.00 pm

Total Marks: 70

Note: (i) All questions are to be attempted.  
(ii) Figures to the right indicate marks.

Q-1 Choose the most appropriate option for each of the following. [10]

- (1) Which of the following dye used as food dye?  
(a) methyl blue (b) picric acid (c) orange-1 (d) alizarin
- (2) Which color absorb higher wavelength?  
(a) red (b) green (c) violet (d) yellow
- (3) Dyes classified according to their \_\_\_\_\_.  
(a) chemical constitution (b) application to the fiber  
(c) both (a) and (b) (d) none of these
- (4) Silver nitrate method used for the estimation of \_\_\_\_\_.  
(a) Cu (b) Cr (c) Cl (d) Ni
- (5) Estimation of azo dye involved \_\_\_\_\_ reaction.  
(a) oxidation (b) reduction (c) redox (d) all of these
- (6) Estimation of sulphanilic acid is carried out by \_\_\_\_\_.  
(a)  $\alpha$ -naphthyl amine (b)  $\beta$ -naphthyl amine  
(c)  $\alpha$ -naphthol (d)  $\beta$ -naphthol
- (7) p-Acetamol used as an \_\_\_\_\_.  
(a) antibiotics (b) antifungal (c) antiviral (d) antipyretic
- (8) Sulpha drug has been replaced by \_\_\_\_\_.  
(a) antibiotics (b) antifungal (c) antiviral (d) antipyretic
- (9) B-carotene is the pro-vitamin for \_\_\_\_\_.  
(a) vitamin D (b) vitamin C (c) vitamin B (d) vitamin A
- (10) Aspirin is \_\_\_\_\_ agent.  
(a) antibiotic (b) antifungal (c) antiviral (d) antipyretic



Q-2 State whether the following statements are true or false. [08]

- (1)  $-NH_2$  group is considering as an auxochrome.
- (2) Procion dye is class of reactive dye.
- (3) The compound is titrated with diazonium solution to give nitrite value.
- (4) In Estimation of Cr oxidation of iodide to iodine by dichromate in basic condition.
- (5) PABA is required for synthesis of folic acid.
- (6) Bacteria are classified gram positive and gram negative type.
- (7) Clotrimazole is used as an antifungal agent.
- (8) Ascorbic acid is also known as vitamin C.

(1)

(P.T.O.)

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Q-3 Attempt any ten questions of following.

- (1) What are requisites for a true dye?
- (2) Explain bathochromic auxochromes.
- (3) Describe classification of dyes and explain any one.
- (4) Explain estimation of Cu.
- (5) Explain mechanism of diazotization salt.
- (6) Define: coupling value.
- (7) Define: (a) virus (b) bacteria.
- (8) Write down synthesis of p-acetamol.
- (9) Describe an ideal drug requirement.
- (10) Define ascorbic acid.
- (11) Discuss testosterone.
- (12) Write down synthesis of clotrimazole.



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Q-4 Attempt any four questions of following.

- (1) Explain resonance theory and their postulates.
- (2) Write a note on chromophore-auxochrome theory.
- (3) Discuss direct and indirect determination.
- (4) Discuss the procedure for estimation of chloride and fluoride.
- (5) Discuss antipyretics and analgesics drug Which groups are used? And describe any one group.
- (6) Give the classification and uses of sulpha drug.
- (7) Write down classification of vitamins and discuss vitamin A.
- (8) Write a note on anti-infective drug.

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