

By. Er. Dharmendra Sir

7974073108, 9584873492

# **DPM CLASSES**

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

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**TEST - PAPER (CBSE/NCERT)**

## **CHEMISTRY IN EVERYDAY LIFE**

**SESSION -2024-25**

**CLASS - 12<sup>th</sup>**

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Time : 1 hr

Test - Chemistry in Everyday life:

mm : 50

Q. 1. How are receptor proteins located in the cell membrane?

Q. 2. Match the medicines given in Column I with their uses given in Column II

Column I

Column II

(A) Ranitidine

(B) Furacine

(C) phenelzine

(D) chloramphenicol

1. Tranquilizer

2. Antibiotic

3. Antihistamine

4. Antiseptic

5. Antifertility drug

Q. 3. What are Enzyme inhibitors? classify them on the basis of their mode of attachment on the active site of Enzymes. With the help of diagrams explain how do inhibitors inhibit the enzymatic activity.

Q. 4. In what respect do prontosil and salvarsan resemble. Is there any resemblance between azo dye and prontosil? Explain.

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Column I

Column I

- (a) Soap chips (i) dried miniature soap bubbles  
(b) Soap granules (ii) small broken pieces of soap formed.  
melted soaps  
(c) Soap powder (iii) Soap powder + abrasives + builders  
(d) scouring soap (iv)  $\text{Na}_2\text{CO}_3 \cdot \text{Na}_3\text{PO}_4$



Soap powder + builder like  $\text{Na}_2\text{CO}_3$  and  $\text{Na}_3\text{PO}_4$ .

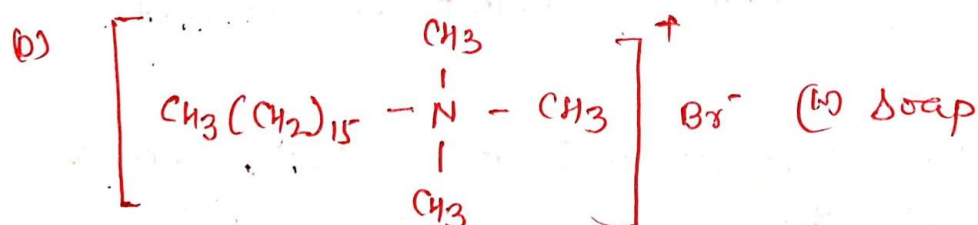
(a)  $\text{CH}_3(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{CH}_2\text{CH}_2\text{OH}$  (i) Cationic detergent

- (b)  $C_{17}H_{35}COO^-Na^+$



- (ii) Anionic detergent

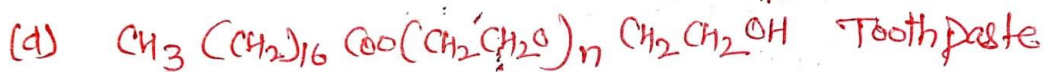
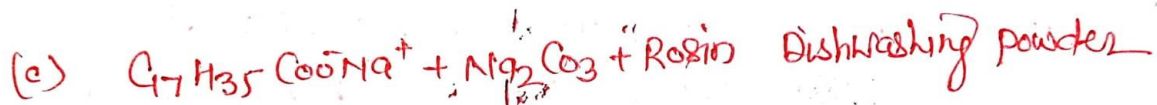
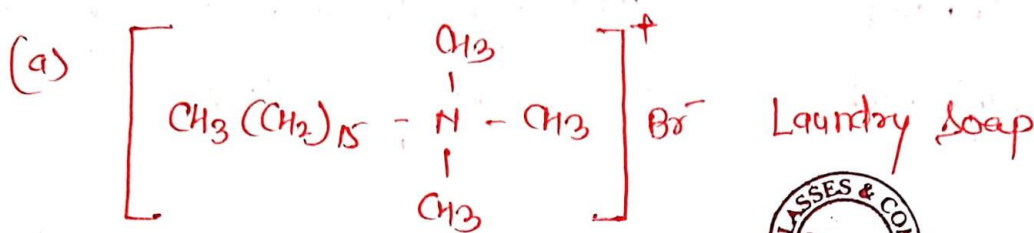
- (iii) Nonionic detergent



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Q. 7. Match the detergents given in column I with their uses in column II.



Q. 8. Match the classes of drugs given in column I with their action given in column II.

(a) Analgesics Inhibit the growth of microorganisms  
Can be given orally

(b) Antiseptics Treatment of stress

(c) Antihistamines Applied to ~~non~~ inanimate objects

(d) Antacids Prevents the interaction of histamine with its receptor.

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- |                   |                                  |
|-------------------|----------------------------------|
| (e) Tranquilizers | pain killing effect              |
| (f) Antibiotics   | applied to diseased skin surface |
| (g) Disinfectants | Treatment of acidity             |

Q. 9. Match the class of compounds given in column I with their functions given in column II

- |                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| (a) Antagonists        | Communicate message b/w two neurons that between neurons to muscles |
| (b) Agonists           | Bind to the receptor site and inhibit its natural function.         |
| (c) Chemical messenger | crucial to body's Communication process                             |
| (d) Inhibitors         | mimic the natural messenger                                         |
| (e) Receptors          | inhibit activities of Enzymes.                                      |

Q. 10. How do enzymes catalyse a chemical reaction in the living system? Explain drug target interaction taking the example of Enzyme as target—

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