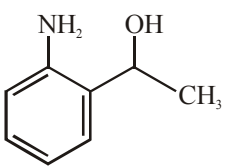
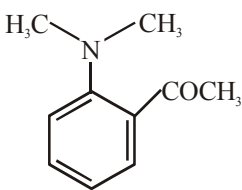
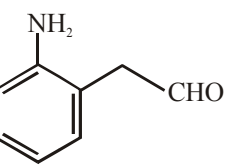
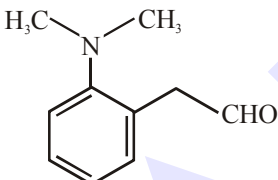


POC

1. The tests performed on compound X and their inferences are:

Test	Inference
(a) 2,4 - DNP test	Coloured precipitate
(b) Iodoform test	Yellow precipitate
(c) Azo-dye test	No dye formation

Compound 'X' is:

- (1) 
- (2) 
- (3) 
- (4) 

2. The correct match between item 'I' and item 'II' is :

Item 'I'	Item 'II'
(compound)	(reagent)
(A) Lysine	(P) 1-naphthol
(B) Furfural	(Q) ninhydrin
(C) Benzyl alcohol	(R) KMnO_4
(D) Styrene	(S) Ceric ammonium nitrate

- (1) (A)→(Q), (B)→(P), (C)→(S), (D)→(R)
 (2) (A)→(Q), (B)→(R), (C)→(S), (D)→(P)
 (3) (A)→(Q), (B)→(P), (C)→(R), (D)→(S)
 (4) (A)→(R), (B)→(P), (C)→(Q), (D)→(S)

3. The correct match between Item I and Item II is :-

Item I		Item II	
(A)	Ester test	(P)	Tyr
(B)	Carbylamine test	(Q)	Asp
(C)	Phthalein dye test	(R)	Ser
		(S)	Lys

- (1) (A)→(Q); (B)→(S); (C)→(P)
 (2) (A)→(R); (B)→(Q); (C)→(P)
 (3) (A)→(Q); (B)→(S); (C)→(R)
 (4) (A)→(R); (B)→(S); (C)→(Q)

4. Hinsberg's reagent is :

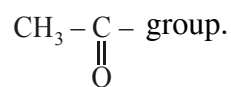
- (1) $\text{C}_6\text{H}_5\text{SO}_2\text{Cl}$ (2) $\text{C}_6\text{H}_5\text{COCl}$
 (3) SOCl_2 (4) $(\text{COCl})_2$

SOLUTION

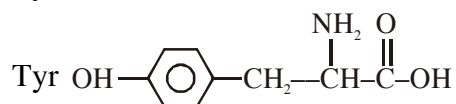
1. **Ans. (2)**

→ 2,4 - DNP test is given by aldehyde on ketone

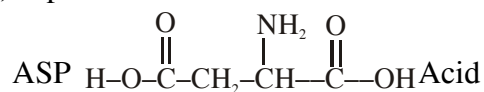
→ Iodoform test is given by compound having

2. **Ans.(1)**3. **Ans. (1)**

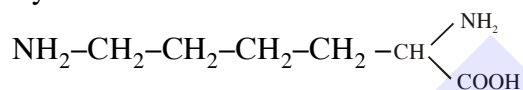
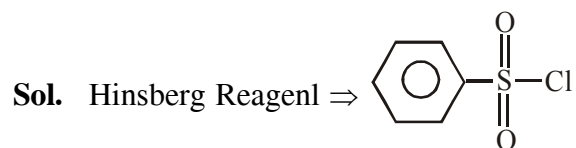
(P) Tyrosine



(Q) Aspartic

(R) Serine Ser $\text{HO} - \text{CH}_2 - \overset{\text{NH}_2}{\underset{\text{COOH}}{\text{CH}}}$

(S) Lysine

(A) Ester test (Q) Aspartic acid
(Acidic amino acid)(B) Carbylamine (S) Lysine
[NH₂ group present](C) Phthalein dye (P) Tyrosine
{ Phenolic group present}4. **Ans. (1)**

[Benzene Sulphonyl chloride]