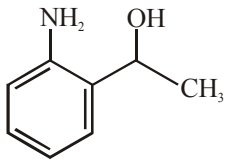
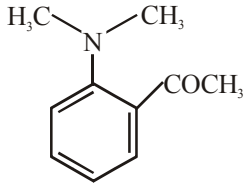
POC

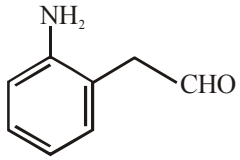
1. यौगिक X पर किये गये परीक्षण निम्न निष्कर्ष देते हैं :

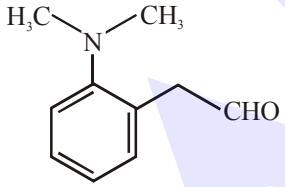
परीक्षण	निष्कर्ष
(a) 2,4 - DNP परीक्षण	रंगीन अवक्षेप
(b) आयडोफार्म परीक्षण	पीला अवक्षेप बनना
(c) ऐजो-डाई परीक्षण	डाई नहीं बनना

यौगिक 'X' है :

(1) 

(2) 

(3) 

(4) 

2. सूची 'I' तथा सूची 'II' के मध्य सही सुमेलन है :

सूची 'I' (यौगिक)	सूची 'II' (अभिकर्मक)
(A) लायसिन	(P) 1-नेफ्थोल
(B) परफ्यूरल	(Q) निनहाइड्रिन
(C) बेंजील ऐल्कोहॉल	(R) $KMnO_4$
(D) स्टायरिन	(S) सेरिक अमोनियम नाइट्रेट

(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. **मद** I तथा **मद** II के बीच सही सुमेल है :-

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. हिंसबर्ग अभिकर्मक है :

(1) $C_6H_5SO_2Cl$ (2) C_6H_5COCl

(3) $SOCl_2$ (4) $(COCl)_2$

SOLUTION

1. Ans. (2)

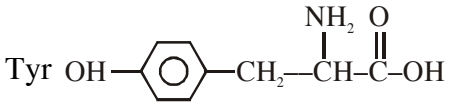
→ 2,4 – DNP test is given by aldehyde on ketone

→ Iodoform test is given by compound having $CH_3-\underset{\underset{O}{\|}}{C}-$ group.

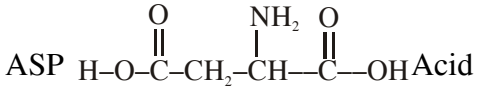
2. Ans.(1)

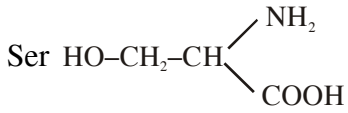
3. Ans. (1)

(P) Tyrosine

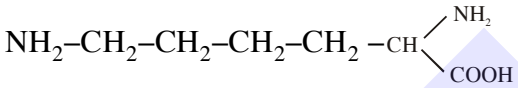


(Q) Aspartic



(R) Serine Ser 

(S) Lysine

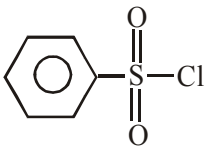


(A) Ester test (Q) Aspartic acid (Acidic amino acid)

(B) Carbylamine (S) Lysine [NH_2 group present]

(C) Phthalein dye (P) Tyrosine {Phenolic group present)

4. Ans. (1)

Sol. Hinsberg Reagenl ⇒ 

[Benzene Sulphonyl chloride]