

JEE Main 2022

QUESTION PAPER WITH SOLUTION

July Attempt

CHEMISTRY

25th July 2022 | Shift - 1

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Founder & CEO

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2021	1256 / 2994 = 41.95%
2020	994 / 2538 = 39.16%
2019	769 / 2105 = 36.53%

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2019	2288 / 3316 = 68.99%

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98-98.99	45,975
97-97.99	59,110
96-96.99	65,678
95-95.99	72,246
90-94.99	78,814
85-89.99	91,949
80-84.99	1,05,085
>79.99%	1,18,220

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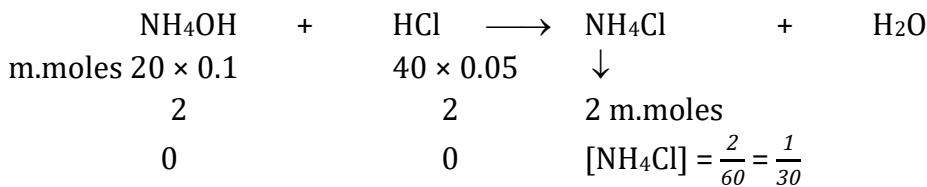
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4. 20 mL of 0.1 M NH_4OH is mixed with 40 mL of 0.05 M HCl. The pH of the mixture is nearest to:
(Given: $K_b(\text{NH}_4\text{OH}) = 1 \times 10^{-5}$, $\log 2 = 0.30$, $\log 3 = 0.48$, $\log 5 = 0.69$, $\log 7 = 0.84$, $\log 11 = 1.04$)
(A) 3.2 (B) 4.2 (C) 5.2 (D) 6.2

Sol. C



$$\begin{aligned}
 P^{OH} &= \frac{1}{2} [P^{kw} + P^{kb} + \log C] \\
 &= \frac{1}{2} [14 + 5 + \log \frac{1}{30}] \\
 &= \frac{1}{2} [19 - 1 - 0.4771] \\
 &= \frac{1}{2} [18 - 0.4771] \\
 &= 9 - 0.23 \\
 P^H &= 5 + 0.23
 \end{aligned}$$

- ## **5. Match List – I with List-II**

List - I

- (A) $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightarrow 2\text{NH}_3(\text{g})$
 - (B) $\text{CO}(\text{g}) + 3\text{H}_2(\text{g}) \rightarrow \text{CH}_4(\text{g}) + \text{H}_2\text{O}(\text{g})$
 - (C) $\text{CO}(\text{g}) + \text{H}_2(\text{g}) \rightarrow \text{HCHO}(\text{g})$
 - (D) $\text{CO}(\text{g}) + 2\text{H}_2(\text{g}) \rightarrow \text{CH}_3(\text{OH})(\text{g})$

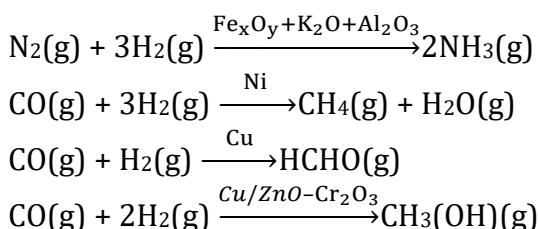
List - II

- (II) Cu/ZnO – Cr₂O₃
 - (III) Fe_xO_y + K₂O + Al₂O₃
 - (IV) Ni

Choose the correct answer from the options given below:

- (A) (A)-(II), (B)-(IV), (C)-(I), (D)-(III) (B) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
 (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II) (D) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

Sol. C



6. The IUPAC nomenclature of an element with electronic configuration [Rn] 5f¹⁴6d¹⁷s² is:
(A) Unnilbium (B) Unnilunium (C) Unnilquadium (D) Unniltrium

Sol. D

Atomic no = 103 (Unt)

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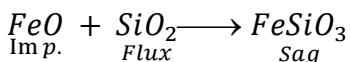
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>79.99%	1,05,085

7. The compound(s) that is(are) removed as slag during the extraction of copper is:
(A) CaO (B) FeO (C) Al₂O₃ (D) ZnO (E) NiO

Choose the correct answer from the option given below:

Sol. D

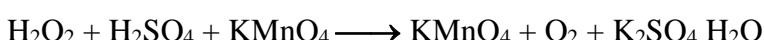
Copper pyrite has Impurity of FeO



8. The reaction of H_2O_2 with potassium permanganate in acidic medium leads to the formation of mainly:

- (A) Mn^{2+} (B) Mn^{4+} (C) Mn^{3+} (D) Mn^{6+}

Sol. A

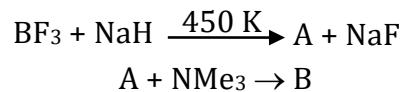


9. Choose the correct order of density of the alkali metals:

Sol. A

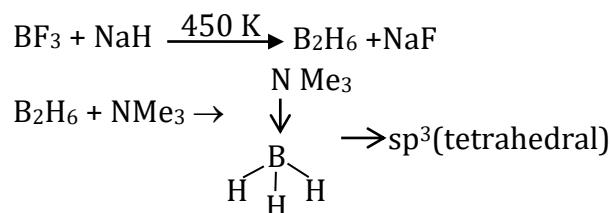
K has lower density than Na – due to large size

- 10.** The geometry around boron in the product 'B' formed from the following reaction is



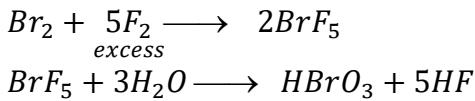
- (A) trigonal planar (B) tetrahedral (C) pyramidal (D) square planar

Sol. B



- 11.** The interhalogen compound formed from the reaction of bromine with excess of fluorine is a:
(A) hypohalite (B) halate (C) perhalate (D) halite

Sol. B



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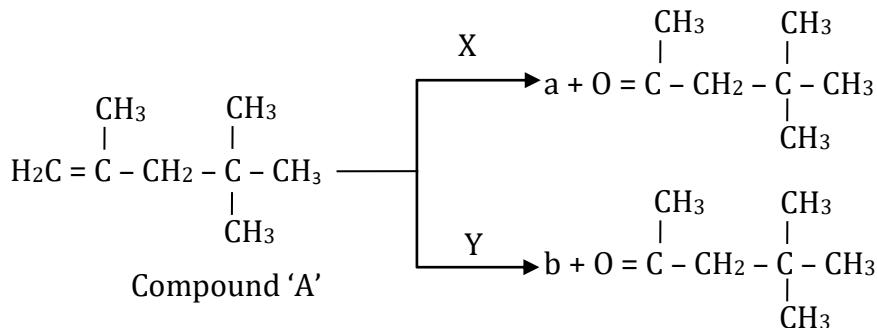
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- 12.** The photochemical smog does not generally contain:
(A) NO (B) NO_2 (C) SO_2 (D) HCHO

Sol. C

The common components of photochemical smog are ozone, nitric oxide, acrolein, formaldehyde and PAN

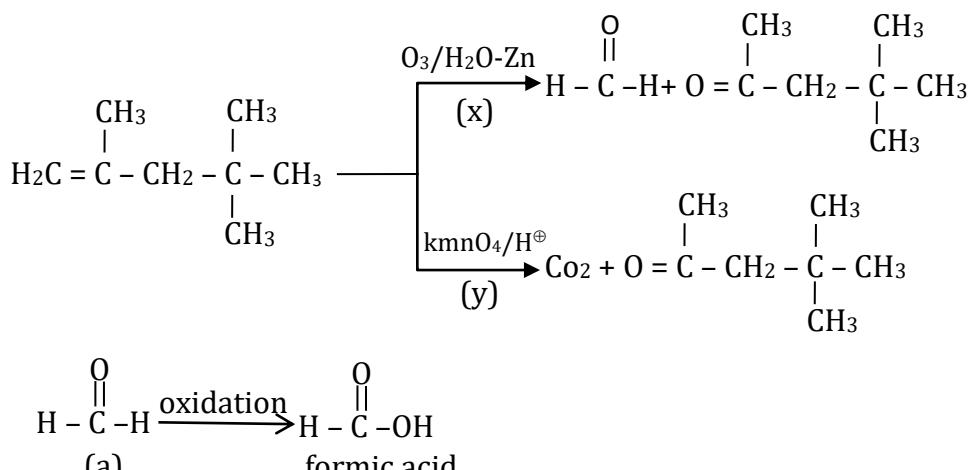
13. A compound 'A' on reaction with 'X' and 'Y' produces the same major product but different by product 'a' and 'b'. Oxidation of 'a' gives a substance produced by ants.



'X' and 'Y' respectively are

- (A) KMnO_4/H^+ and dil. KMnO_4 , 273 K (B) KMnO_4 (dilute), 273 K and KMnO_4/H^+
 (C) KMnO_4/H^+ and O_3 , $\text{H}_2\text{O}/\text{Zn}$ (D) O_3 , $\text{H}_2\text{O}/\text{Zn}$ and KMnO_4/H^+

Sol. D



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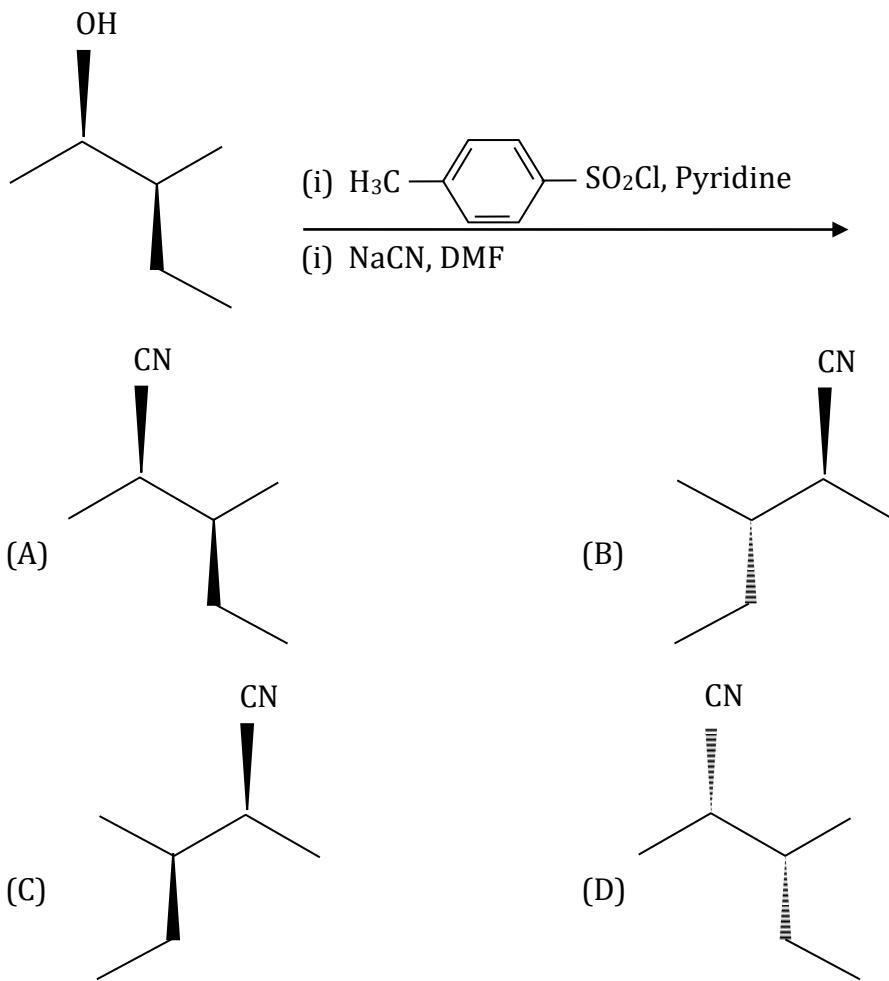
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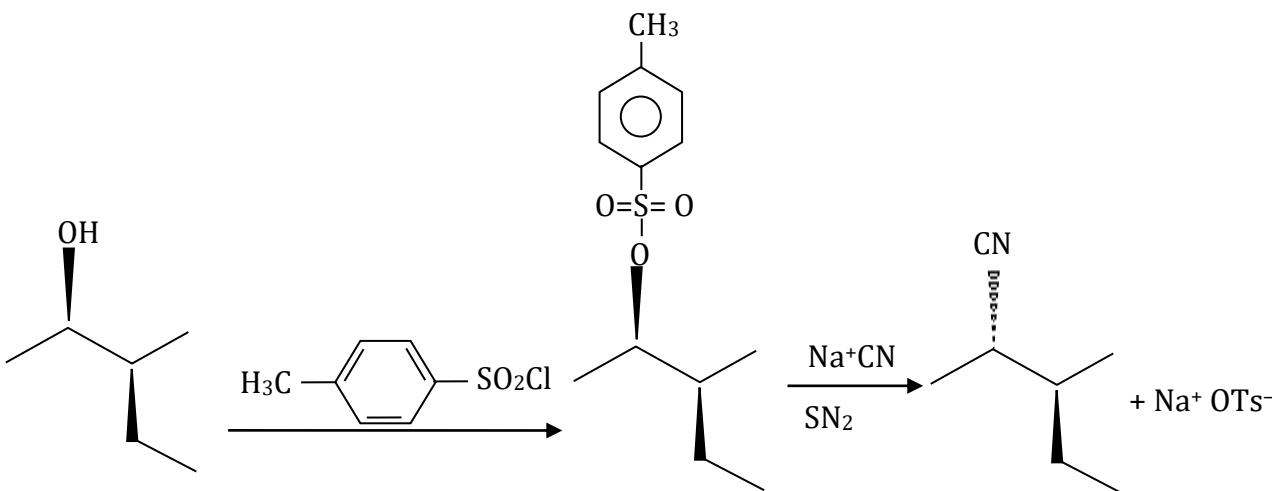
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14. Most stable product of the following reaction is:



Sol. B



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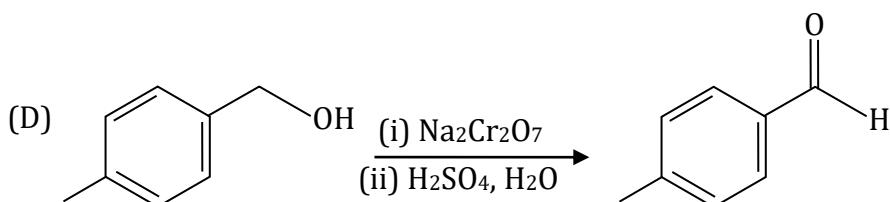
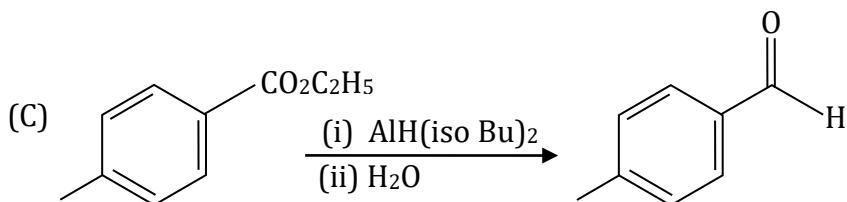
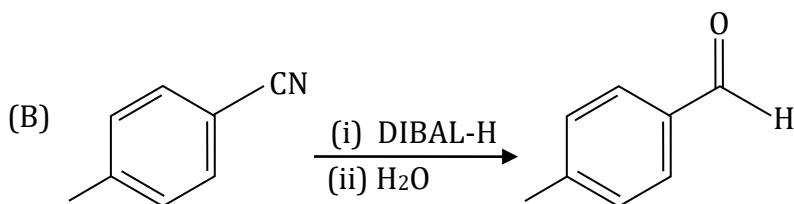
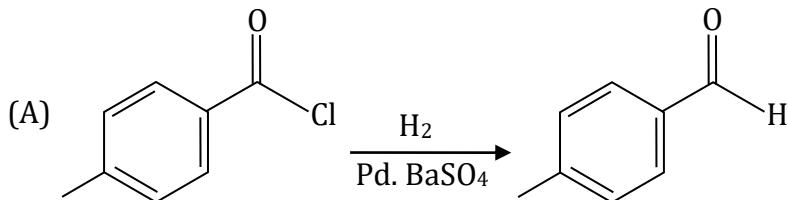
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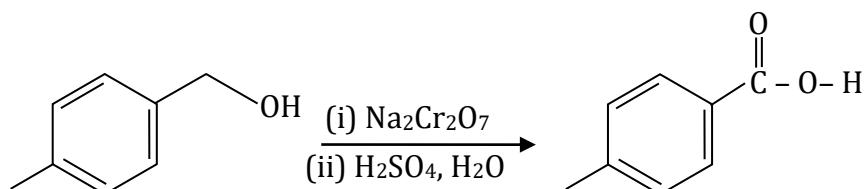
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96-96.99	59,110

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15. Which one of the following reactions does not represent correct combination of substrate and product under the given conditions?



Sol. D



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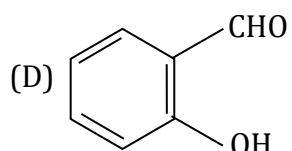
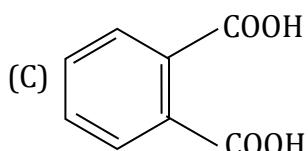
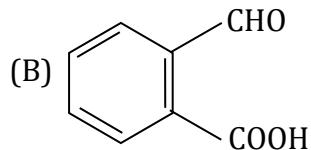
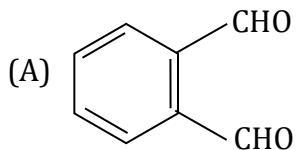
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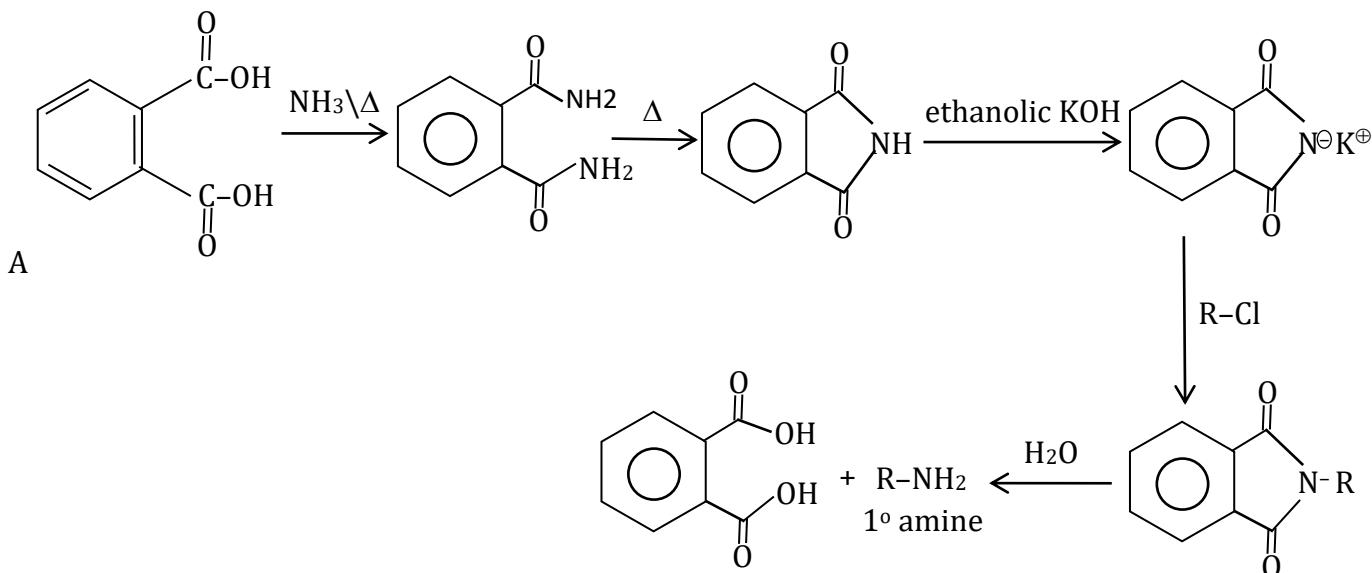
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- 16.** An organic compound 'A' on reaction with NH_3 followed by heating gives compound B. Which one further strong heating gives compound C ($\text{C}_8\text{H}_5\text{NO}_2$). Compound C on sequential reaction with ethanolic KOH, alkyl chloride and hydrolysis with alkali gives a primary amine. The compound A is:



Sol. C



Gabrial pthalimide reaction

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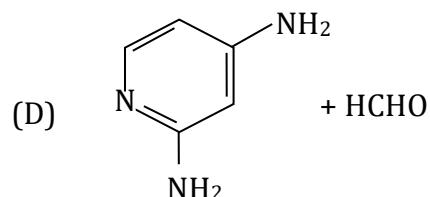
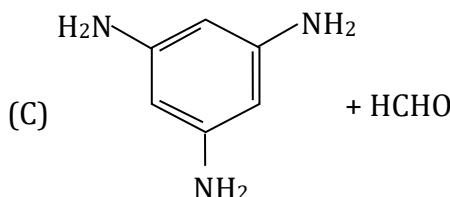
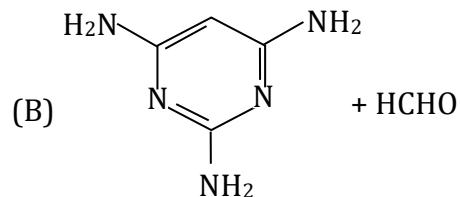
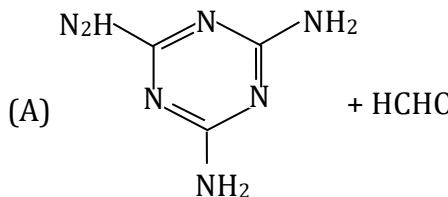
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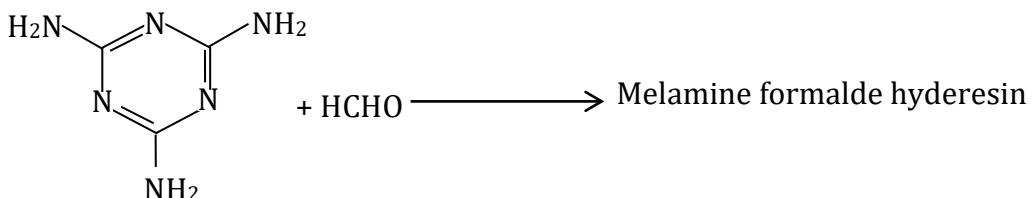
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17. Melamine polymer is formed by the condensation of:



Sol. A



18. During the denaturation of proteins, which of these structures will remain intact?

- (A) Primary (B) Secondary (C) Tertiary (D) Quaternary

Sol. A

19. During used to bind to receptors, inhibiting its natural function and blocking a message are called:

- (A) Agonists (B) Antagonists (C) Allosterists (D) Anti histaminists

Sol. B

20. Given below are two statements:

Statement I: On heating with KHSO_4 , glycerol is dehydrated and acrolein is formed.

Statement II: Acrolein has fruity odour and can be used to test glycerol's presence.

Choose the correct option.

- (A) Both Statement I and Statement II are correct
 (B) Both Statement I and Statement II are incorrect
 (C) Statement I is correct but Statement II is incorrect
 (D) Statement I incorrect but Statement II is correct

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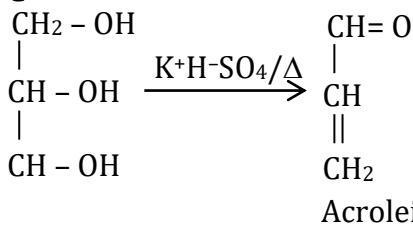
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Sol.
C


Acrolein does not have fruity oclour.

SECTION - B

21.

Among the following species

$\text{N}_2, \text{N}_2^+, \text{N}_2^-, \text{O}_2, \text{O}_2^+, \text{O}_2^-, \text{O}_2^{2-}$

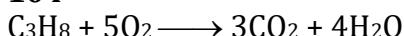
The number of species showing diamagnesim is _____.

Sol.
2

Diagmagnetic species are $\text{N}_2, \text{O}_2^{2-}$.

22.

The enthalpy of combustion of propane, graphite and dihydrogen at 298 K are $-2220.0 \text{ kJ mol}^{-1}$, $-393.5 \text{ kJ mol}^{-1}$ and $-285.8 \text{ kJ mol}^{-1}$ respectively. The magnitude of enthalpy of formation of propane (C_3H_8) is _____ kJ mol^{-1} . (Nearest integer)

Sol.
104


$$\Delta H^\circ_c = 3\Delta H^\circ_f \text{CO}_2 + 4\Delta H^\circ_f \text{H}_2\text{O} - \Delta H_f \text{C}_3\text{H}_8$$

$$-2220 = 3(-393.5) + 4(-285.8) - x$$

$$-2220 = -1180.5 - 1143.2 - x$$

$$x = -2323.7 + 2220$$

$$= 103.7$$

$$= 104 \text{ kJ}$$

23.

The pressure of a moist gas at 27°C is 4 atm. The volume of the container is doubled at the same temperature. The new pressure of the moist gas is _____ $\times 10^{-1}$ atm. (Nearest integer)
(Given: The vapour pressure of water at 27°C is 0.4 atm)

Sol.
2.2

Press. of moist = 4 atm

Press .of gas = $4 - \text{v.p of H}_2\text{O}$

$$= 4 - 0.4$$

$$= 3.6$$

When volume is doubled $\Rightarrow P = P/2$

$$= \frac{3.6}{2} = 1.8$$

Total Press. = $1.8 + \text{v.p of H}_2\text{O}$

$$= 1.8 + 0.4 = 2.2 \text{ atm}$$

24.

The cell potential for $\text{Zn}|\text{Zn}^{2+}(\text{aq})||\text{Sn}^{x+}|\text{Sn}$ is 0.801 V at 298K. The reaction quotient for the above reaction is 10^{-2} . The number of electrons involved in the given electrochemical cell reaction is _____.

(Given: $E_{\text{Zn}^{2+}|\text{Zn}}^0 = 0.763\text{V}$, $E_{\text{Sn}^{x+}|\text{Sn}}^0 = +0.008\text{V}$ and $\frac{2.303\text{RT}}{\text{F}} = 0.06\text{V}$)

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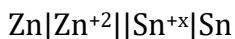
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Sol. 4


$E = 0.081V, q = 10^{-2}$

$0.081 = E^\circ - \frac{0.0591}{n} \log Q$

$0.801 = 0.771 - \frac{0.66}{n} \log 10^{-2}$

$0.03 = \frac{-0.06 \times -2}{n} = \frac{0.12}{n}$

$N = 0.12/0.03 = 4$

 Total e⁻ transfer = 4

- 25.** The half life for the decomposition of gaseous compound A is 240 s when the gaseous pressure was 500 Torr initially. When the pressure was 250 Torr, the half life was found to be 4.0 min. The order of the reaction is _____. (Nearest integer)

Sol. 1

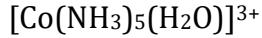
$t \frac{1}{2} = 240 \text{ sec}, \quad p^\circ = 500 \text{ torr}$

$t \frac{1}{2} = 4 \text{ min} \quad p^\circ = 250 \text{ torr}$

$= 4 \times 60 = 240 \text{ sec}$

 Order = 1, $t \frac{1}{2}$ is independent of initial press.

- 26.** Consider the following metal complexes:



The spin-only magnetic moment value of the complex that absorbs light with shortest wavelength is _____. B.M. (Nearest integer)

Sol. 0

$[Co(CN)_6]^{3-}$ absorbs light with shortest wave length because CN⁻ is SFL so more splitting takes place and t_{2g} and e_g orbital have more energy difference.

- 27.** Among Co³⁺, Ti²⁺, V²⁺ and Cr²⁺ ions, one if used as a reagent cannot liberate H₂ from dilute mineral acid solution, its spin-only magnetic moment in gaseous state is _____. B.M. (Nearest integer)

Sol. 5

Co⁺³ has more value of SRP so it cannot liberate H₂ from dilute acid solution.

- 28.** While estimating the nitrogen present in an organic compound by Kjeldahl's method, the ammonia evolved from 0.25g of the compound neutralized 2.5 mL of 2 M H₂SO₄. The percentage of nitrogen present in organic compound is _____.

Sol. 56

$M_{eq} \text{ of H}_2\text{SO}_4 = 2.5 \times 2 \times 2$

$= 10 = M_{eq} \text{ of NH}_3$

$m. \text{ moles of NH}_3 = M_{eq} \text{ of NH}_3 [nf = 1]$

$= 10$

$m. \text{ moles of N} = 10, \text{ moles of N} = 10 \times 10^{-3}$

$\text{wt. of N} = 10^{-2} \times 14 = 0.14 \text{ gm}$

$\% \text{ of N} = \frac{0.14}{0.25} \times 100 = 56\%$

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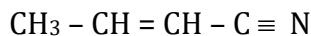
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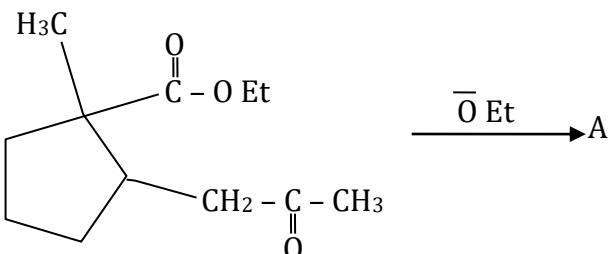
29. The number of sp^3 hybridised carbons in an acyclic neutral compound with molecular formula C_4H_5N is _____.

Sol. 1
 C_4H_5N



DOU = 3

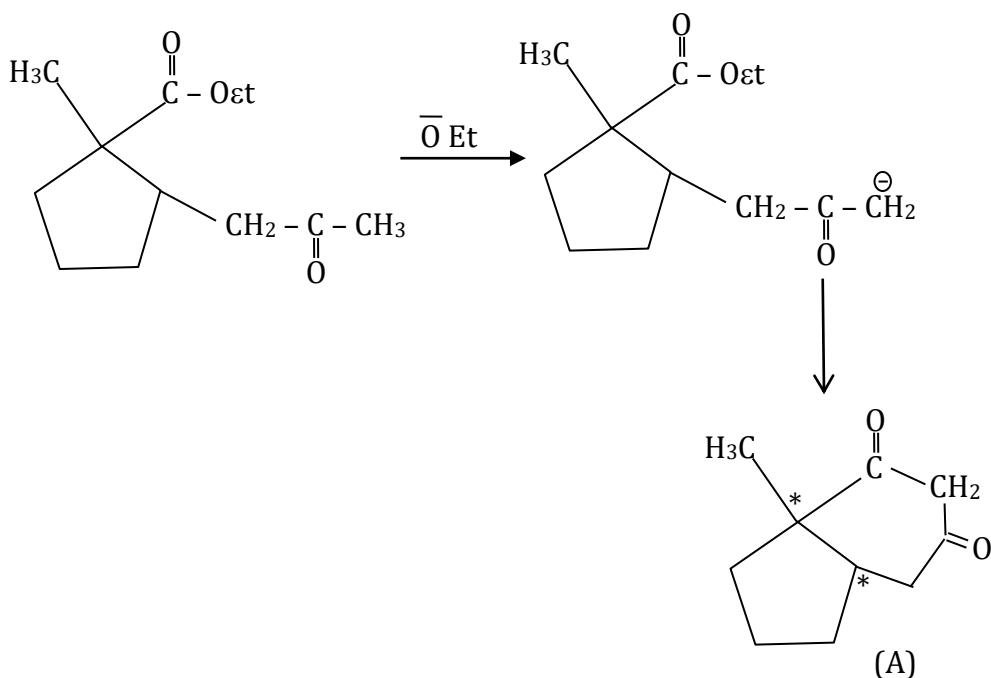
30. In the given reaction



(Where Et is $-C_2H_5$)

The number of chiral carbon/s in product A is _____.

Sol. 2



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कोटा क्लासरुम कोचिंग का क्रेज़: कोविड के बाद फिर लौटी शिक्षा नगरी की रौनक

जेर्डी और नीट की तैयारी के लिए 1.4 लाख स्टूडेंट्स पहुंचे, एक लाख के और आने की उम्मीद



आपके संकल्प को सफलता में बदलने को तैयार हैं हम

कोटा
आपके प्रियसान ने मोशन को कोटा में जैरहीं, नीट और ओलिम्पियाड की तयारी के लिए सर्वोत्तम बढ़ाव देना चाहता है। और सुन्दरबन का विश्वस्त संस्थान बना दिया है। मोशन हमारे लिए कीर्ति इस्टर्न्स्ट्रेट्यूट या सर्वथा का नाम नहीं है। हमारे लिए यह एक निषान, जिम्मेदारी और संकरण है। सकल शिक्षा के क्षेत्र में बदलाव का कार्य, यादी पाँची के करियर वे सपनों को साकार करने का



विश्वासर से पालने थमाए लिए रेता
का ज़ज़ावा है। हम अंतर्रक्षर
की नीली रुक्मि के बाहर रहा कि
कोइश्वर याकूब हो जो देख को
किसीद्वयों पर ले जाएगा। अब एक
प्रतिक्रिया के माने वहाँ लेत्वा
कर रहे हैं, यह पर ज़स और
ज़ुनून के साथ काम कर रहे हैं और
यह आयाम विस्तार कर रहे हैं।
विस्तारों की कामयाबी में उचिती
समझने और लम्हे के अभिभावक
शिक्षकों का साथ, मात्रा वित्ती और
पूर्ण परिवार का समर्पण, शरण का
उपरांग गांधी द्वारा होता है। लोगों का
दृष्टिकोण सुनी दृष्टिकोण त्रास है। इन
दिन दिनों कोटा कोविंग में
एडमिनिस्ट्रेशन का विस्तारित चरण रहा
है। यह नई शुरुआत का समय है
और नए नाम, नए संस्करण, लेख
करने वाले और उत्तीर्ण लेखन आते हैं।
कोटा आगे बढ़ती से मैं कोटा
वाहां की पाई दृष्टि काम करा

में है। कोटा में अपनी विद्यालय संस्था तक पहुँचने वाली युवतीयों का सामना करने साथ आए हैं जो उनके द्वारा बदल दिए गए और लानीने के लिए स्ट्रॉटरेप भी और लानीने के लिए इसके अपने अपने सामने वालीयों का सम्मान भी दिया जाता है। अब यहाँ का सबसे अधिक अभ्यास प्रैक्टिस और सपैंस को प्रूफ छोड़ने वाला है। शुभकानानीओं के लिए यहाँ के लिए आपको दिया जाता साथ। अब यहाँ होने वाली अपनी अपनी विद्यालय संस्था में ही हासिली निरनिवार फैलाना है। ऐसे आपको विद्यालय (डॉक्टरेट और मीडिसिन डॉक्टरेट) में हिंदू काली राम और मोर्शन एजेक्यूटिव

15 साल पहले एक कमरे की फिजिक्स क्लास से आगाज, हजारों जुड़े हैं आज

सक्सेस स्टोरी : सफलता के सपने साकार होते हैं यहां

कोटा
मोरान एजुकेशन का सफर 7 दिसंबर 2007 को 10 हजार रुपए और कोई करमे की फिजिकल ट्रायाल के साथ शुरू हुआ। 15 साल में आज देशवासी में मोरान के 55% से अधिक सेंटर कार्य कर रहे हैं। 2022-23 में 100 केंद्रों परिवर्तन 1100 मध्यवर्गीयों 500 से अधिक शिक्षकों द्वारा लाइव से अधिक विद्यार्थीयों को यारी और 50 हजार रुपए से अधिक विद्यार्थीयों की सफलता प्राप्ति लिए गए थे। आइए कहने आइए कहने। **डॉ कहने**



अ कलं इवर, अ विकापु
औरंगाबाद, भुज, मिलान
मुख्य इवर, चैन्हैन
सुन्दरी घोड़ा, दुर्गा, दुर्गा
गुजराटी, ग्वालियर,
मिस्रतांक
हमीरपुर, हावडा
हेवरामारा
जातालपुर, जम्मू, जलालपुर
मू बई, कठुआ, कोलहापुर
कोलकाता, कोरा, लखणारा
लातूर, मालगढ़, मेहसासन
मुकुरपुर, नगरानी, नारायणपुर
नासिक, पालानपुर, पाला
पुजरात, पक्काड़िकूट
पुलावन
रायगढ़, राशी, शेवा, राऊकेर
शीगंग, सुंदरगढ़, चिप्रु, डोडा
सामालिंग

बच्चों के लिए पारिंगिटि माहौल

मेरा बेटा इंजीनियर बनना चाहता है। उसको लेकर वहाँ आया हूँ। कोटा बाहर शिक्षा की कार्रवी है। इनमें प्रौद्योगिकी विषय है। यथा वार्ता और अधिकारी, हास्टर्स, जोकिंग विषय का मानव नजर आता है। इनमें से एक है राह रुद्दर ट्रेनिंग के साथी कों साक्षात् करने के लिए ही बना है। कोटा कोशिकी की अधिकारी है जिसे वह प्रेसेस को रुद्दरेटन की पढ़ाई और उत्तराधिकारि के बारे में लगातार अपडेट रखा जाता है। **माप्रतीक्षि, विद्या, जागरूक, पाठ्य**

अनेनालान पढ़ाई से थोंके से गए वे बच्चे कोरोना काल में अनेनालान पढ़ाने वालों द्वारा बढ़ाये गए एक अविभावन रासायन काल में पढ़ाये गए, तब वह कोई फैला विद्या अनिवार्यतामय रूप से लाना चाहिए। यहाँ बारे में बोला जाता है। कोटा को जिस दरमाए पढ़ाया गया है। उन्हें कहा जाता है कि कोटा में जिस दरमाए से पढ़ाये गया है वही रही है। इस बार मैं अच्छी पढ़ाई गयी है। सभी कोटारी बच्चों का यह पार अच्छा व्यापार है। **खण्डन कोरिटि, गोलामार्क, असम**

100

NTA Score by Kota Classroom Students



Swatantra Dwivedi
V* Dropper Batch



Gitanshu Arora
IMMP Batch



Bhavuk Prasad Sarthak
2 Year Classroom Batch



Samyak Sheersh
Eklavya Batch



Vishakha Agarwal
Eklavya Batch

**6th Position
in Female Category**



**ODISHA
State Topper**

NTA Score: 99.9891545

Deevyanshu Malu IMMP Batch



**DELHI (NCT)
State Topper**

NTA Score: 99.9984506

Hemanshu Garg Eklavya Batch

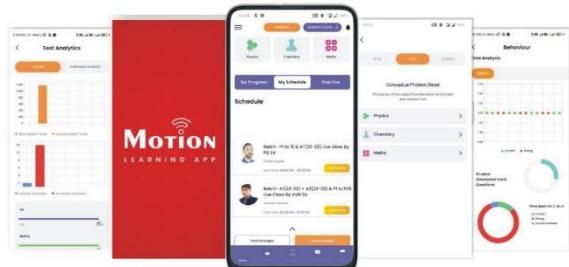
48 Students Secured
99.9 NTA Score

252 Students Secured
99.5 NTA Score

% of Students Above 95
NTA Score 2409/6653 = **36.21%**

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