

PAPER-1 (B.E./B. TECH.)

JEE (Main) 2020

COMPUTER BASED TEST (CBT) Questions & Solutions

Date: 03 September, 2020 (SHIFT-2) | TIME: (03.00 p.m. to 06.00 p.m)

Duration: 3 Hours | Max. Marks: 300

SUBJECT: CHEMISTRY



Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 **Ph. No.:** +91-744-2777777, 2777700 | **FAX No.:** +91-022-39167222

This solution was download from Resonance JEE (MAIN) 2020 Solution portal



Many Dreamers... Many Achievers...



ADMISSION OPEN (2020-21)

For Classroom Programs*

TARGET

JEE (Main+Advanced) 2021 COURSE

TARGET

JEE (Main) 2021 COURSE

Digital Program

TARGET

JEE (Main+Advanced) 2021 **COURSE**

VIJAY AJAY ÎVISHESH

Scholarship upto 90% on JEE (Main) 2020 %ile Score



For Class

Salient features



Interactive Classes & Recorded



Online Study Material & **DPPs** (Daily **Practice** Problems)



Discussion & **Doubt Clearing** Classes (Every week for each subject)



CBT -Computer Based Test & Performance Analysis



Discussion Forum for **Doubt Clearing** & Additional

*Presently classes would be offered Online and Offline classes would resume as per Government Guidelines.

Toll Free: 1800 258 5555 | Visit us: www.resonance.ac.in







PART: CHEMISTRY

SECTION - 1: (Maximum Marks: 80)

Straight Objective Type (सीधे वस्तुनिष्ठ प्रकार)

This section contains 20 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) for its answer, out of which Only One is correct.

इस खण्ड में 20 बह-विकल्पी प्रश्न हैं। प्रत्येक प्रश्न के 4 विकल्प (1), (2), (3) तथा (4) हैं, जिनमें से सिर्फ एक सही है।

- 1. The incorrect statement(s) among (a) - (b) regarding acid rain is (are):
 - (a) It can corrode water pipes
 - (b) It can damage structures made up of stone.
 - (c) It cannot cause respiratory ailments in animals
 - (d) It is not harmful for trees
 - (1) (a), (c) and (d)
- (b) (c) and (d)
- (c) (a), (b) and (d) (d) (c) only

Ans. (2)

- Sol. (B) It is harmful for trees and plants
 - (C) It causes breathing problem in human being and animals
- For the reaction 2A + 3B + $\frac{3}{2}$ C \rightarrow 3P, which statement is correct? 2.

(1)
$$\frac{dn_A}{dt} = \frac{2}{3} \frac{dn_B}{dt} = \frac{3}{4} \frac{dn_C}{dt}$$

(2)
$$\frac{dn_A}{dt} = \frac{dn_B}{dt} = \frac{dn_C}{dt}$$

(3)
$$\frac{dn_A}{dt} = \frac{2}{3} \frac{dn_B}{dt} = \frac{4}{3} \frac{dn_C}{dt}$$

(4)
$$\frac{dn_A}{dt} = \frac{3}{2} \frac{dn_B}{dt} = \frac{3}{4} \frac{dn_C}{dt}$$

Ans. (3)

Sol. For a given reaction, rate =
$$-\frac{1}{2}\frac{dn_A}{dt} = -\frac{1}{3}\frac{dn_B}{dt} = -\frac{2}{3}\frac{dn_C}{dt}$$

rate =
$$\frac{dn_A}{dt} = \frac{2}{3} \frac{dn_B}{dt} = \frac{4}{3} \frac{dn_C}{dt}$$

3. Three isomers A, B and C (mol. formula C₈H₁₁N) give the following results:

A and C
$$\xrightarrow{\text{Diazotization}}$$
 P+Q $\xrightarrow{\text{(i) Hydrolysis}}$ $\xrightarrow{\text{(ii) oxidation}}$ $\xrightarrow{\text{KMnO4+H}^+}$ S (product of C)

R has lower boiling point than S

B $\xrightarrow{C_6H_5SO_2Cl}$ alkali-insoluble product A, b and C, respectively are:

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029 f facebook.com/ResonanceEdu 🔰 twitter.com/ResonanceEdu 🔡 www.youtube.com/resowatch 🕒 blog.resonance.ac.in Toll Free: 1800 258 5555 🔊 7340010333

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | **FAX No.:** +91-022-39167222

COOH

(S)

- 4. The five successive ionization enthalpies of an element are 800, 2427, 3658, 35024 and 32824 kJ mol⁻¹. The number of valence electrons in the element is:
 - (1) 4
- (2) 3

(3)5

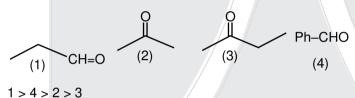
(4)2

Ans. (2)

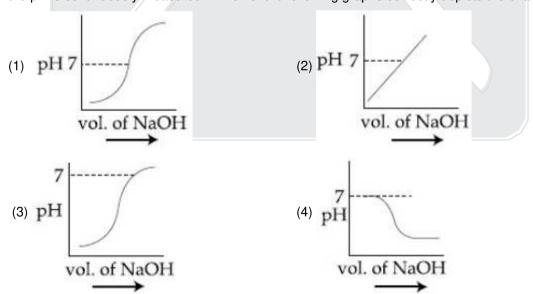
- Sol. As difference in 3rd and 4th ionisation energies is high so atom contains 3 valence electrons.
- 5. The increasing order of the reactivity of the following compounds in nucleophile addition reaction is: Propanal, Benzaldehyde, Propanone, Butanone
 - (1) Benzaldehyde > Butanone < Propanone < Propanal
 - (2) Butanone < Propanone < Benzaldehyde < Propanal
 - (3) Benzaldehyde < Propanal < Propanone < Butanone
 - (4) Propanal < Propanone < Butanone < Benzaldehyde

Ans. (2)

Sol. Rate of NAR α – I – M on substate



100 mL of 0.1 M HCl is taken in a beaker and to it 100 mL of 0.1 M NaOH is added in steps of 2 mL and 6. the pH is continuously measured. Which of the following graphs correctly depicts the change in pH?



Ans. (1)

Sol. At equivalence point pH is 7 and pH increases with addition of NaOH so correct graph is (1).

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029

(1) (II) > (III) > (I) > (IV)

(2) (II) > (III) > (IV) > (I)

(3) (III) > (II) > (IV) > (I)

(4) (IV) > (II) > (III) > (I)

Ans. (2)

- **Sol.** S_N2 reaction depend upon -I, -M effect on substrate. On increase -I, -M, effect rate of S_N2 reaction increase.
- 8. Consider the hypothetical situation where the azimuthal quantum number, I, takes values 0, 1, 2,n + 1, where n is the principal quantum number. Then, the element with atomic number:
 - (1) 6 has a 2p-valence subshell
 - (2) 9 is the first alkali metal
 - (3) 8 is the first noble gas
 - (4) 13 has a half-filled valence subshell

Ans. (3) [NTA answer is given (4)]

Sol. For n = 1 value of $\ell = 0, 1, 2$

For n = 2 value of $\ell = 0, 1, 2, 3$

So, according to n + l rule the filling order of subshells will be:

1s 1p 2s 1d 2p 3s 2d 3p 4s

- (1) 1st noble gas will have configuration 1s² 1p⁶ so atomic number will be 8.
- (2) 1st alkali metal will have electronic configuration \Rightarrow 1s¹ \Rightarrow (Z = 1)
- (3) Electronic configuration of C (Z = 6) \Rightarrow 1s² 1p⁴
- (4) Z = 13, Electronic configuration = $1s^2 1p^6 2s^2 1d^3$

So it will not have half-filled electronic configuration.

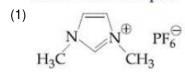
Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

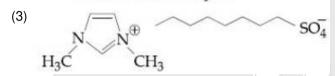
9. An ionic micelle is formed on the addition of:

excess water to liquid



(2) liquid diethyl ether to aqueous NaCl solution

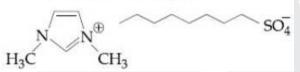
excess water to liquid



- (4) Sodium stearate to pure toluene
- Ans.

excess water to liquid

Sol.



Due to presence of hydrophobic cahin it forms micelle.

- The d-electron configuration of [Ru(en)₃]Cl₂ and [Fe(H₂O)₆]Cl₂, respectively are: 10.
- $(1) \ t_{2g}^6 e_g^0 \ \text{and} \ t_{2g}^4 e_g^2 \qquad (2) \ t_{2g}^4 e_g^2 \ \text{and} \ t_{2g}^4 e_g^2 \qquad (3) \ t_{2g}^6 e_g^0 \ \text{and} \ t_{2g}^6 e_g^0 \qquad (4) \ t_{2g}^4 e_g^2 \ \text{and} \ t_{2g}^6 e_g^0$

Ans.

 $[Ru(en)_3]Cl_2 \Rightarrow Ru^{2+} = 4d^6 = t_{2q}^6, e_q^0$ Sol.

$$[Fe(H_2O)_6]^{2+} \Rightarrow Fe^{2+} = 3d^6 = t_{2g}^4, e_g^2$$

So, correct answer is (1).

11. The strengths of 5.6 volume hydrogen peroxide (of density 1 g/mL) in terms of mass percentage and molarity (M) respectively, are:

(Take molar mass of hydrogen peroxide as 34 g/mol)

- (1) 1.7 and 0.5
- (2) 0.85 and 0.5
- (3) 1.7 and 0.25
- (4) 0.85 and 0.25

Ans. (1)

Sol. For H₂O₂

Molarity =
$$\frac{\text{Volume strength}}{11.2} = \frac{5.6}{11.2} = 0.5 \text{ M}$$

Molarity =
$$\frac{\%(w/w) \times 10 \times d}{GMM}$$

$$0.5 = \frac{\%(w/w) \times 10 \times 1}{34}$$

$$\%(w/w) = \frac{0.5 \times 34}{10} = 1.7$$

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222 To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029 Toll Free: 1800 258 5555 🔊 7340010333 f facebook.com/ResonanceEdu 🔰 twitter.com/ResonanceEdu 🔠 www.youtube.com/resowatch 🕒 blog.resonance.ac.in

12. Consider the following molecules and statements related to them:



- (B) is more likely to be crystalline than (A) (a)
- (b) (B) has higher boiling point than (A)
- (c) (B) dissoloves more readily than (A) in water

Identify the correct option from below:

- (1) only (a) is true
- (2) (a) and (b) are true (3) (b) and (c) are true (4) (a) and (c) are true

Ans. (2)

Due to inter molecular H-Bonding in B, than A, B is more soluble and having more B.P point than A. Sol.

13. The incorrect statement is:

- (1) Manganate and permanganate ions are tetrahedral
- (2) Manganate and permanganate ions are paramagnetic
- (3) In manganate and permanganate ion, the π -bonding takes place by overlap of p-orbitals of oxygen and d-orbitals of manganese
- (4) Manganate ion is green in colour and permanganate ion is purple in colour

Ans. (2)

Sol.

Manganate

 MnO_4^2

Permanganate

 MnO_4^{Θ}

Paramagnetic, green in colour,

Diamagnetic, purple in colour,

Tetrahedral & contains $p\pi$ -d π bond

Tetrahedral & contains $p\pi$ -d π bond

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029 Toll Free: 1800 258 5555 🔊 7340010333 f facebook.com/ResonanceEdu 🔰 twitter.com/ResonanceEdu 🔠 www.youtube.com/resowatch 🕒 blog.resonance.ac.in **14.** Complex A has a composition of H₁₂O₆Cl₃Cr. If the complex on treatment with conc. H₂SO₄ loses 13.5% of its original mass, the correct molecular formulas of A is:

[Given: atomic mass of Cr = 52 amu and Cl = 35 amu]

(1) [Cr(H₂O₆]Cl₃

(2) [Cr(H₂O)₄Cl₂]Cl· 2H₂O

(3) [Cr(H₂O)₃Cl₃] ·3H₂O

(4) [Cr(H₂O)₅Cl]Cl₂· H₂O

- Ans. (2)
- Sol. Conc. H₂SO₄ acts as dehydrating agent.

Molar mass of given complex = 266.5 g/mol.

On treating with conc. H₂SO₄ the mass

lost by the complex =
$$\frac{13.5}{100}$$
 (266.5) $\approx 36g$

= 2 moles of H₂O

Formula of the complex = $[Cr(H_2O)_4Cl_2]Cl \cdot 2H_2O$

- 15. A mixture of one mole each of H₂, He and O₂ each are enclosed in a cylinder of volume V at temperature T. If the partial pressure of H₂ is 2 atm, the total pressure of the gases in the cylinder is:
 - (1) 22 atm
- (2) 14 atm
- (3) 6 atm
- (4) 38 atm

Ans. (3)

Sol.

(0

$$P_{gas} = \frac{n_{gas}RT}{V}$$

as n, T & V constant So

$$P_{H_2} = P_{O_2} = P_{He} = 2atm$$

So,
$$P_{Total} = P_{H_2} + P_{O_2} + P_{He} = 6 \text{ atm}$$

16. The compound A in the following reactions is:

A
$$\xrightarrow{\text{(i) CH}_3\text{MgBr/H}_2\text{O}}$$
 $\xrightarrow{\text{(ii) Conc. H}_2\text{SO}_4/\Delta}$

$$B \xrightarrow{(i) O_3} C + D$$

$$C \xrightarrow{(i) Conc.KOH} COO^{\bigcirc}K^+ + COO^{\bigcirc}CH_2OH$$

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

$$D \xrightarrow{Ba(OH)_2} H_3C - C = CH - C - CH_3$$

(2)
$$C_6H_5 - CH_2 - C - CH_3$$

$$^{(3)}$$
 $C_6H_5-C-CH_2CH_3$

Ans. (2)

Sol.

$$\begin{array}{c|c}
CH_2-C-CH_3 & OH \\
\hline
(A) & CH_2-C-CH_3 \\
\hline
(B) & CH_2-C-CH_3 \\
\hline
(CH_2-C-CH_3 \\
\hline
(CH_3-C-CH_3 \\
\hline$$

- 17. Among the statement (I - IV), the correct ones are:
 - (I) Be has smaller atomic radius compared to Mg.
 - (II) Be has higher ionization enthalpy than Al.
 - (III) Charge/radius ratio of Be is greater than that of Al.
 - (IV) Both Be and Al form mainly covalent compounds.
 - (1) (II), (III) and (IV)
- (2) (I), (III) and (IV)
- (3) (I), (II) and (III)
- (4) (I), (II) and (IV)

Ans.

Sol. Charge / radius ratio of Be and Al is same because of diagonal relationship. Remaining statements are correct.

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | **FAX No.**: +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029 Toll Free: 1800 258 5555 🔊 7340010333 f facebook.com/ResonanceEdu 🔰 twitter.com/ResonanceEdu 🔠 www.youtube.com/resowatch 🕒 blog.resonance.ac.in

$$d \oplus O$$
 $O \oplus b$
 $O \oplus a$
 $O \oplus b$
 $O \oplus a$
 $O \oplus a$
 $O \oplus a$
 $O \oplus b$
 $O \oplus a$
 $O \oplus a$
 $O \oplus a$
 $O \oplus b$
 $O \oplus a$
 $O \oplus a$
 $O \oplus b$
 $O \oplus a$
 $O \oplus a$
 $O \oplus a$
 $O \oplus a$
 $O \oplus b$
 $O \oplus a$
 $O \oplus$

The product 'P' gives positive ceric ammonium nitrate test. This is because of the presence of which of these –OH group(s)?

- (1) (b) only
- (2) (d) only
- (3) (b) and (d)
- (4) (c) and (d)

Ans. (1)

3° Alcohol gives Red colour with ceric ammonium nitrate

Product 'P'

- **19.** Match the following drugs with their therapeutic actions:
 - (i) Ranitidine
 - (ii) Nardil (Phenelzine)
 - (iii) Chloramphenicol
 - (iv) Dimetane (Brompheniramine)
 - (1) (i)-(a); (ii)-(c); (iii)-(b); (iv)-(e);
 - (3) (i)-(d); (ii)-(a); (iii)-(b); (iv)-(c);
 - $(0) (1)^{-}(0), (11)^{-}(0), (11)^{-}(0),$

- (a) Antidepressant
- (b) Antibiotic
- (c) Antihistamine
- (d) Antacid
- (e) Analgesic
- (2) (i)-(d); (ii)-(c); (iii)-(a); (iv)-(e);
- (4) (i)-(e); (ii)-(a); (iii)-(c); (iv)-(d);

Ans. (3)

Sol.

Phenelzine (Nardil)

$$\begin{array}{c} \text{NHCOCHCl}_2\\\\ \text{O}_2\text{N} \longrightarrow \begin{array}{c} \text{CH} \longrightarrow \text{CH} \longrightarrow \text{CH}_2\text{OH}\\\\ \text{OH}\\\\ \text{Chloramphenicol} \end{array} \rightarrow \text{Antibiotics}$$

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

$$\begin{array}{c} N \\ \hline \\ Br \\ \\ Brompheniramine \\ \\ (Dimetapp, Dimetane) \end{array} \rightarrow Antihistamine$$

20. The major product in the following reaction is:

SECTION - 2: (Maximum Marks: 20)

- This section contains FIVE (05) questions. The answer to each question is NUMERICAL VALUE with two digit integer and decimal upto one digit.
- If the numerical value has more than two decimal places truncate/round-off the value upto TWO decimal places.
 - Full Marks: +4 If ONLY the correct option is chosen.
 - Zero Marks : 0 In all other cases

खंड 2 (अधिकतम अंकः 20)

- इस खंड में पाँच (05) प्रश्न है। प्रत्येक प्रश्न का उत्तर संख्यात्मक मान (NUMERICAL VALUE) हैं, जो द्वि—अंकीय पूर्णांक तथा दशमलव एकल—अंकन में है।
- यदि संख्यात्मक मान में दो से अधिक दशमलव स्थान है , तो संख्यात्मक मान को दशमलव के दो स्थानों तक ट्रंकेट/राउंड ऑफ (truncate/round-off) करें।
- अंकन योजना :

Sol.

🕨 पूर्ण अंक : +4 यदि सिर्फ सही विकल्प ही चुना गया है।

श्रून्य अंक : 0 अन्य सभी परिस्थितियों में।

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | **FAX No.:** +91-022-39167222



21. An acidic solution of dichromate is electrolyzed for 8 minutes using 2A current. As per the following equation $Cr_2 O_7^2 + 14 H^+ + 6 e^- \rightarrow 2Cr^{3+} + 7 H_2O$

The amount of Cr^{3+} obtained was 0.104 g. The efficiency of the process (in%) is (Take : F = 960000 C, At. mass of chromium = 52)

Ans. 60

Sol. Charge (q) = it = $2 \times 8 \times 60 = 960$ C

$$\frac{960}{96000} = 0.01F$$

$$Cr_2O_7^{2-} + 14H^+ + 6e^- \longrightarrow 2Cr^{3+} + 7H_2O_7^{2-}$$

$$0.01F \qquad \frac{1}{3} \times 0.01 \text{ mole}$$
Theoritical mass of $Cr^{3+} = \frac{1}{3} \times \frac{600}{96000} \times 52 = 0.173g$

So, efficiency =
$$\frac{w_{actual}}{w_{Theoritial}} \times 100 = \frac{0.104}{0.173} \times 100 = 60\%$$

22. The number of C = O groups present in a tripeptide Asp – Glu – Lys is

Ans. 5

Sol. Asp – Glu – Lys pripeptide is:

No. of CO group = 5

23. If 250 cm³ of an aqueous solution containing 0.73 g of a protein A is isotonic with one litre of another aqueous solution containing 1.65 g of a protein B, at 298 K, the ratio of the molecular masses of A and B is_____ × 10⁻² (to the nearest integer)

Ans. 177

Sol. For isotonic solution

$$\begin{split} &i_1C_1 = i_2C_2 & \text{ {For protein i = 1}} \\ &C_1 = C_2 \\ &\Rightarrow & \frac{0.73 \times 1000}{M_A \times 250} = \frac{1.65}{M_B \times 1} \\ &\frac{M_A}{M_B} = \frac{0.73 \times 4}{1.65} = 1.77 = 177 \times 10^{-2} \end{split}$$

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 **Ph. No.:** +91-744-2777777, 2777700 | **FAX No.:** +91-022-39167222

- 24. The volume (in mL) of 0.1 N NaOH required to neutralise 10 mL of 0.1 N phosphinic acid is
- 10 Ans.
- Sol. Phosphinic acid is hypo phosphorous acid (H₃PO₂).

$$NaOH + H_3PO_2 \longrightarrow NaH_2PO_2 + H_2O$$

For neutrization

$$(N_1V_1)_{acid} = (N_2V_2)_{base}$$

$$0.1 \times 10 = 0.1 \times (V_{mL})_{NaOH}$$

- 25. 0.023 × 10²² molecules are present in 10g of a substance 'x'. The molarity of a solution containing 5 g of substance 'x' in 2 L solution is $\times 10^{-3}$.
- 25 Ans.
- Number of mole of X = $\frac{6.022 \times 10^{22}}{6.022 \times 10^{23}} = \frac{10}{\text{Molar massof X}}$ Sol.

So molar mass of X = 100g

Molarity =
$$\frac{5}{100 \times 2} = 0.025M$$

Ans. = 0.025 M

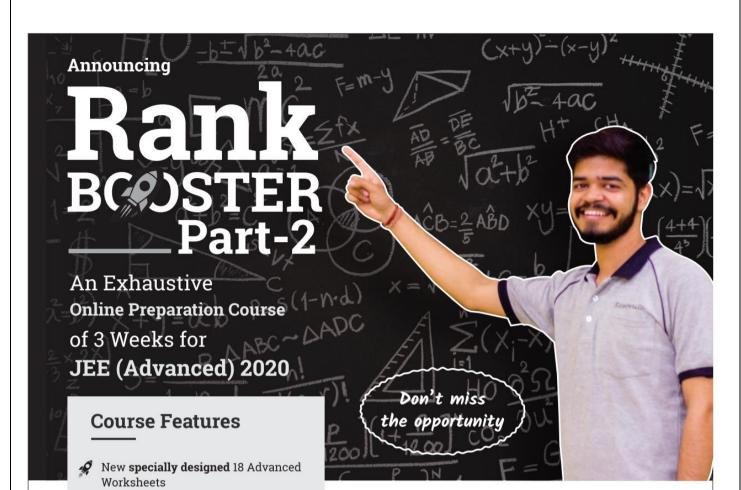
 $M = 25 \times 10^{-3}$

So P = 25

Resonance Eduventures Ltd.

Reg. Office & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 **Ph. No.**: +91-744-2777777, 2777700 | **FAX No.**: +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029 Toll Free: 1800 258 5555 🔊 7340010333 f facebook.com/ResonanceEdu 🔰 twitter.com/ResonanceEdu 🔠 www.youtube.com/resowatch 🕒 blog.resonance.ac.in



Course Brief

The Rank Booster Part-2 course is recommended for students aiming a top rank in JEE (Advanced) 2020. The course structure is tailored to better the chances through rigorous practice of 18 Advanced Worksheets and their exhaustive conceptual discussion. Also, unit wise worksheets for self practice to strengthen tough and important concepts.

Boosting Aspirations to Reality



Limited Seats

Register on www.resonance.ac.in

Toll Free: 1800 258 5555



Online Live Discussion class (6 per

Exclusive Unit wise Work Sheets

Revision DPPs for more practice

Medium of Teaching and Content

package for quick revision of P, C & M

worksheets

on daily basis

would be only English

week) each of 1.5 hours for Advanced

covering tough & important concepts

7023003307, 7728890101 | 7340010333