

OSONE ACADEMY

No.1 Training Institution For NEET| AIIMS | IIT JEE | CLAT | NATA | CA

Name:

JEE - CHEMISTRY

Time:

Code:

Date:

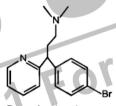
Chemistry Paper

1. Which of the following compound will show geometrical Isomerism?

2.
$$CH_{2} = CH - CH - CH_{3} \xrightarrow{HBr} (Product)$$

- 3. Which is not a condensation polymer? (1) Nylon-6
- (2) Nylon-6,6
- (3) Buna-N
- (4) Bakelite MBBS | II'

4. What is the use of Brampheniramine?

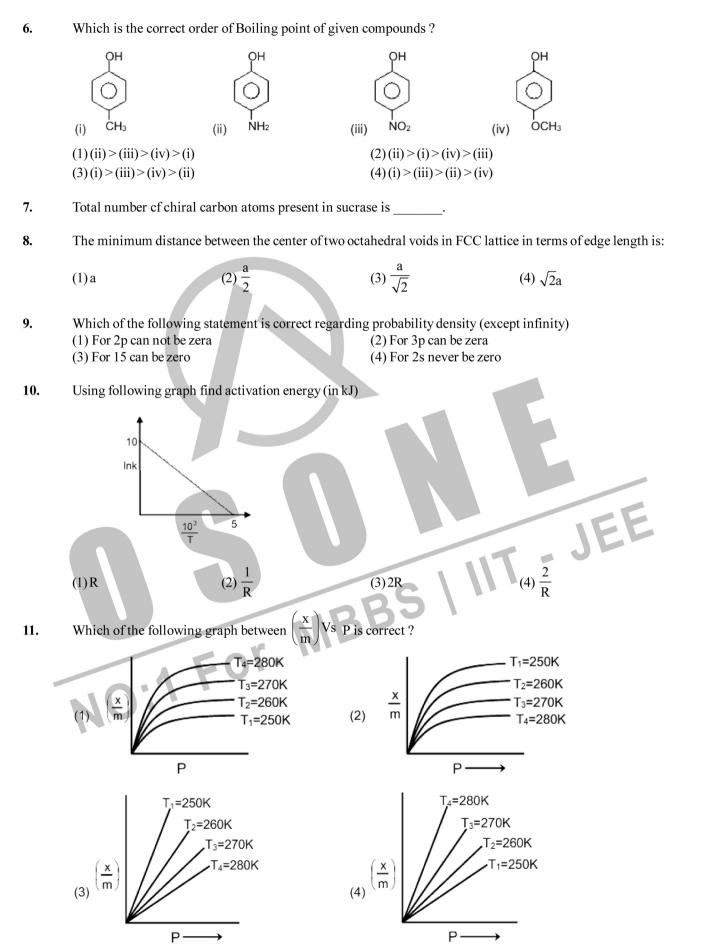


Brompheniramine

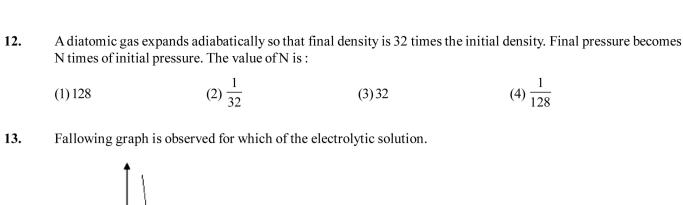
- (1) Antidepressant
- (3) Aniseptic

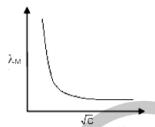
- (2) Antihistamines.
- (4) Analgesic

Product 'C' will be:



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- (1) CH₃COOH
- (2) HC1

- (3) KNO₃
- (4) NaCl
- 14. The products formed by reaction of ammonia with excess of Chlorine are:
 - $(1) NH_4Cl+HCl$
- $(2) NCl_3 + N_2$
- (3) NCL₃+HCL
- $(4) NH_4CL + N_2$

- 15. (A) = $cis[Co(en)_2Cl_2]^{\oplus}$ & (B) = $trans[Co(en)_2Cl_2]^{\oplus}$ Which of the above complexes is optically active?
 - (1) Only A
- (2) Only B
- (3) Both

- (4) None
- 16. Correct arrangement of following species in the increasing order of their size is:

$$N^{3-}, O^{2-}, F^-, Na^+, Mg^{2+}, Al^{3+}$$

(1) Al^{3+} , Mg^{2+} , Na^{+} , F^{-} , O^{2-} , N^{3-}

(2) N^{3-} , O^{2-} , F^- , Na^+ , Mg^{2+} , Al^{3+}

(3) Al^{3+} , Mg^{2+} , Na^{+} , N^{3-} , O^{2-} , F^{-}

- (4) $Na^+, Mg^{2+}, Al^{3+}, F^-, O^{2-}, N^{3-}$
- 17. Which of the following has maximum bond angle [consider C, N, O, S as central atom]
 - $(1) H_{2}O$

(2) H₂S

 $(3) NH_2$

(4) CH₄

- 18. In pure form H_2O_2 is found as:
 - (1) Linear, Blue colour

(2) Linear, Colourlass

(3) Planar, Blue colour

- (4) Non planar, Blue colour
- 19. Pure boran and silicon can be obtained by
 - (1) Electrolytic refining

(2) Vapour phase refining

(3) Zone refining

22.

- (4) Mond's process
- 20. $0.02 \,\mathrm{M}\,\mathrm{K_2Cr_2O_7}$ is treated with 0.288 gram of Ferrous oxalate. How much volume (in mL) of $\mathrm{K_2Cr_2O_7}$ is required?
- **21.** For the reaction, $2A(g) \longrightarrow A_2(g)$

For the reaction, $x + y \rightleftharpoons 2z$

following data is obtained at 298 K. $\Delta U = -20 \text{kJ}$, $\Delta S = -30 \text{J}$ then find ΔG (in kJ).

ionoving data is obtained at 250 K. Ac = 20k3, As = 500 their interest into

 $initially \ 1 \ mol \ of \ x, \ 1.5 \ mole \ of \ y \ and \ 0.5 \ mole \ z \ are \ taken, \ then \ at \ equilibrium \ 1 \ mole \ of \ z \ is \ obtained]$

If $k_{eq} = \frac{X}{15}$ then, find the value of 'X'.

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