



CHEMISTRY

BOOKS - ACCURATE PUBLICATION

BOARD PAPER MARCH - 2020



1. Fill in the blanks- Examples of two flowers

with separated sepals are_____ and _____



2. Read the given passage and answer the questions

A substance which alters the rate of chemical reaction without undergoing any change in mass and chemical composition at the end of reaction is called catalyst. It may be noted that catalyst which increases the speed of a reaction is called positive catalyst and catalyst which decrease the speed of reaction is called negative catalyst. The promoters are substances that enhance the activity of catalyst and poisons are the substances which

decrease the activity of catalyts.

How many types of catalysts are there ?

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3. Read the given passage and answer the questions

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What are a positive catalysts ?

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4. A catalyst :



5. Read the given passage and answer the questions

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What are promoters ?

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6. Write the formula of primary amine.



9. Which group from periodic table is known

as Noble gases ?



10. The solution used to preserve biological specimens.

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11. The IUP AC name of compound

$$CH_3-CH_2-CH_2-CH_2-CH_-CH_3$$
 is ert_{OH}

A. Pentan-2-ol

- B. Pentan-4-ol
- C. Pentan-1-ol
- D. pentanal

Answer: A

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12. Which is most basic? Benzylamine, aniline,

Acetanilide, p-Nitroaniline.

A. Ammonia

B. Primary Amine

C. secondary Amine

D. Tertiary Amine

Answer: C

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13. Antipyretics are medicinal compounds which

A. Reduce Fever

B. Reduce Stress

C. Control Malaria

D. None of these.

Answer: A

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14. The molarity of pure water (density of water= $1gml^{-1}$)

B. 50M

C. 60 M

D. 5M

Answer: A

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15. The units of rate constant for first order equation.

A.
$$s^{-1}$$

B.
$$molL^{-1}s^{-1}$$

$$\mathsf{C}.\,L^{-1}$$

D.
$$L^{-1}s^{-1}$$

Answer: A

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16. Formic acid gives Silver mirror test Tollen's

reagent.

17. Read the given passage and answers following questions :

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Amines act as Lewis bases.



18. Read the given passage and answers following questions :

A substance which alters the rate. of chemical reaction without itself undergoing any change in mass and chemical composition at the end' of reaction is called catalyst. It may be noted that a catalyst which increase the speed of a reaction are called positive catalyst and catalyst which decrease the speed of reaction are called negative catalyst. The promoters are substances that enhance activity of catalyst and poisons which decrease the activity of catalyst.

The synthesis of proteins is governed by RNA.

what is catalyst?



19. In general, alkyl halides are more reactive than aryl halides. Watch Video Solution **20**. Phenols turn blue litmus red Watch Video Solution

Section B





3. Transition metals form mostly coloured compounds.Explain.



5. Give IUPAC name of following $K_2[HgCl_4]$



6. Give IUPAC name of following $K_2[Ni(CN)_4]$ Vatch Video Solution

 Write two differences between hormones and vitamins.

8. The rate constant for a first order reaction is $80s^{-1}$. How much time will it take to reduce the concentration of the reactants to $\frac{1}{18^{th}}$ of Its initial value ?

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9. First order reaction is found to have rate constant, $k = 5.5 \times 10^{-14} s^{-1}$. Find the half life to the reaction.

10. Calculate two third life of first order reaction having $K=5.48 imes10^{-14}s^{-1}.$

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Section C

- 1. Boiling point of benzene is 353.23 K . When 1
- . 80 g of non-volatile solute was dissolved in
- 90 g of benzene the boiling point is raised to

354.11 K? Calculate molar mass of solute.

(K_b for benzene is 2 . 53 K kg mol^{-1})





4. The Boiling Point of ethers are lower than isomeric alcohols why ?

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5. Write Hell Volhard Zelinsky reaction.

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6. Write Rosenmund reaction.



9. What are biodegradable polymers ? Give example.
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10. Calculate the molar conductance at infinite dilution $(\lambda^o m)$ of $CaCl_2$,given that molar ionic conductance for $\lambda^o m (Ca^{2+})$ 119.5 and $Cl - (76.3)Scm^2 mol^{-1}$

11. What are primary and secondary batteries ?



2. Give Neil Bartlett's experiment on reactivity

of Xenon.



3. SO_3 has zero dipole moment. Why?

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4. Why noble gases have zero electron affinity

values ?



5. What is formula of oleum ?

A. (i) H_2SO_4

B. (ii) H_2SO_3

C. (iii) H_2SO_5

D. (iv) $H_2S_2O_7$

Answer:

6. Describe the preparation of potassium dichromate from iron chromite ore. What is the effect of increasing pH on a solution of potassium dichromate?

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7. Why transition metals show catalytic

properties?

8. Give preparation of XeF_6 and $XeOF_2$.



lanthanoid contraction ?





12. Write the following reactions :

Friedel Craft alkylation.

13. Give the following reactions:

Fitting reaction



15. Define specific rotation ?

2.

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17. Define Optical activity.

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18. Give two uses of chloroform.

