



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPER 17

Exercise

1. The possible m values for '2p' orbital are

A. $+2, 0, -2$

B. $-2, 0, +1$

C. $+1, 0, -1$

D. $+1, 0, -3$

Answer:



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2. Which one has highest bond angle—

A. PCl_3

B. BH_3

C. CH_4

D. CO_2

Answer:



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3. In which Compound the Central atom is sp_2 hybridised—

A. N_2O

B. CO

C. CO_2

D. SO_2 .

Answer:



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4. Spreadability increases for the liquid when—

A. Viscosity increases

B. Surface tension decreases

C. Surface tension increases

D. Viscosity decreases

Answer:



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5. For Adiabatic Expansion of an ideal gas—

A. Temperature decreases

B. $w = 0$

C. $q = 0$

D. $H = 0$.

Answer:



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6. Internal energy does not include

- A. Atomic energy
- B. Rotational energy
- C. Combustion energy
- D. Vibrational energy

Answer:



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7. If the $t_{\frac{1}{2}}$ for any reaction be inversely proportionate to the initial Concentration of the reactant then the order of reaction is—

A. Zero

B. one

C. Two

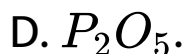
D. or more.

Answer:



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8. Which one does not react with NaOH

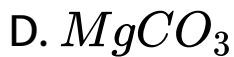
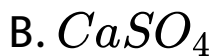
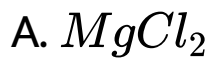


Answer:



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9. Gypsum is

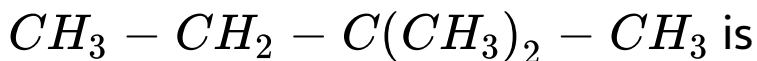


Answer:



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10. The General name of



- A. Neohexane
- B. Isopentane
- C. 2, 2 - dimethyl butane
- D. Isopentane.

Answer:



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11. Which one shows geometric isomerism

A. 2-Butene

B. 2-Butyne

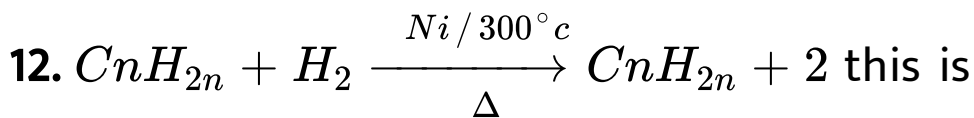
C. 2-Butanol

D. 1-Butene.

Answer:



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known as

A. Sabettier & sandaren

B. Friedel Craft

C. Kolbe

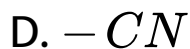
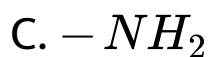
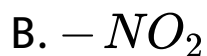
D. Wurtz-reaction.

Answer:



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13. Which one is not meta - orienting



Answer:



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14. Which gas evolves in maximum in Volcanic eruption

A. CO_2

B. SO_2

C. H_2S

D. NO_2

Answer:



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15. 1 Amu =how much gm?



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16. The reagent which consumed'whole in a reaction is called?



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17. Name a 'd' block element which is not transitional.



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18. In which block inner transition metal is included?



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19. What type of property entropy is?



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20. Name one anti aromatic Compound.



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21. Show that $E = A / v$ where E, A, V used are in usual meaning?



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22. Establish the relation between .vapour density and molecular weight of gas.



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23. Prove that in 'n'th shell $2n^2$ number of electron, can be accomodated.



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24. Give the difference between orbit and orbital.



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25. Write with Condition & balanced equation the preparation of CO from oxalic acid.



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26. Illustrate with example metamerism.



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27. Illustrate with example tautomerism.



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28. Write full form of TLV. How Taj Mahal is effected by atmosphere?



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29. If the uncertainty of position of a particle of mass 1×10^{-4} gm be 1.56×16^{-3} cm then find the uncertainty of its velocity?



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30. Write the electronic configuration of Cr_{3+} ion and find no of unpaired electron in it.



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31. Define Ionisation potential. How it changes form left, to right in 2nd period?



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32. Define electorn affinity. State its changes down a group.



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33. Illustrate with example Sizweek maximum valency theory.



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34. Give an example of Compression of octate.

Which one is more soluble in alcohol KI or KCl.



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35. In which Condition real gas behalves ideally? Why real gas diviates from ideal behaviour.



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36. What do you mean by surface tension?
State dimension of surface tension. Why the viscosity of a liquid decreases with increase of temperature.



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37. Write two differences between reversible and irreversible process. What is open system?



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38. Calculate, ΔU , W and Q when an ideal gas is compressed at 5 atm pressure from 25 litre to 5 litre at a constant temp of $27^\circ C$.



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39. What is oxidation number? Explain that oxidation and reduction occurs simultaneously.



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40. Why Li can't be stored in Kerosene like Na?

Give an example of super oxide.



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41. Calculate the hardness of water in ppm when 2.56 gm MgCO_3 dissolved in 1 litre water.



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42. Write the structural formula of the following organic Compound:-2, 3- dimethyl -1, 3- pentadiene.



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43. Write the structural formula of the following organic Compound:-Butane -1, 2, 3 - tri Carbaldehyde.



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44. Write the structural formula of the following organic Compound:-3- Chloro- 3, 4-dimethylpentanal.



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45. Explain why atomic radius of Ga is less than that of Al? $AlCl_3$ forms .dimer but BCl_3 does not - Explain? What is corundum?



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46. Give an example of poly nuclear aromatic compound. Write one merit and one demerit of wurtz reaction. Shall methane can be synthesise using kolbe electrolysis process?



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47. How would you convert: Ethene \rightarrow Acetylene.



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48. How would you convert:Acetylene →
Methane.



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49. What reagent is used for synthesis of
alkane by Corey-house synthen's.



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