

Examrace

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Chemistry Mock Test 10

Q-1. Lanthanide and actinides resemble in

- (a) Electronic configuration
- (b) Oxidation state
- (c) Ionization energy
- (d) Formation of complexes.

Q-2. Mg and Li are similar in their properties due to

- (a) Same e/m ration
- (b) Same electron affinity
- (c) Same group
- (d) Same ionic potential

Q-3. How will you separate mixture of two gases?

- (a) Fraction distillation technique
- (b) Grahams law of diffusion technique
- (c) Osmosis
- (d) Chromatography

Q-4. Which of these have no unit?

- (a) Electro negativity
- (b) Electron affinity
- (c) Ionization energy
- (d) Excitation potential

Q-5. "The addition of unsymmetrical reagents to unsymmetrical alkenes occurs in such a way that the carbon atom of the double bond which carries lesser number of hydrogen atoms "a called by

- (a) Saytzeff rule
- (b) Markownikoff's rule

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- (c) Kharasch effect
- (d) Anti-Saytzeff rule.

Q-6. The molecule of CO_2 has angle 180° . it can be explained on the basis of

- (a) sp^3 hybridisation
- (b) sp^2 hybridisation
- (c) sp hybridisation
- (d) d^2sp^3 hybridisation

Q-7. Which of the following gas mixture is used by the divers inside the sea?

- (a) $O_2 + He$
- (b) $O_2 + Xe$
- (c) $O_2 + Ar$
- (d) $O_2 + N_2$

Q-8 Photoelectric effect is maximum in

- (a) Cs
- (b) Na
- (c) L
- (d) Li

Q-9. Which of the following cuts ultraviolet rays?

- (a) Soda glass
- (b) Crooke's glass
- (c) Pyrex
- (d) None of these

Q-10. Naphthalene is a/an

- (a) Ionic solid
- (b) Covalent solid
- (c) Metallic solid
- (d) Molecular solid

Q-11. Acetone is mixed with bleaching powder to give

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- (a) Chloroform
- (b) Acetaldehyde
- (c) Ethanol
- (d) Phosgene

Q-12. 4.4g of CO_2 contains how many liters of CO_2 at STP?

- (a) 2.4 liter
- (b) 2.24 liter
- (c) 44 liter
- (d) 22.4 liter

Q-13. Aniline reacts with which of these to form Schiff base?

- (a) Acetic acid
- (b) Benzaldehyde
- (c) Acetone
- (d) NH_3

Q-14 which of these do not contain – $COOH$ group?

- (a) Aspirin
- (b) Benzoic acid
- (c) Picric acid
- (d) Salicylic acid

Q-15. EDTA has coordination number

- (a) 3
- (b) 4
- (c) 5
- (d) 6

Q-16. Write the IUPAC name of CH_3CH_2COOH .

- (a) Ethyl formic acid
- (b) Ethyl carboxylic acid
- (c) Ethane methanoic acid

(d) Propanoic acid

Q-17. Octane number can be changed by

(a) Isomerisation

(b) Alkylation

(c) Cyclisation

(d) All of these

Q-18. Gasoline has composition

(a) $C_0 - C_{12}$

(b) $C_2 - C_5$

(c) $C_0 - C_{11}$

(d) None of these

Q-19. Oxygen molecule is

(a) Diamagnetic

(b) Paramagnetic

(c) Ferromagnetic

(d) Ferromagnetic

Q-20. $\Delta G = \Delta H - T \Delta S$ was given by

(a) Faraday

(b) Kirchhoff

(c) Einstein

(d) Gibbs-Helmholtz.

Q-21. Acetone reacts with Grignard reagent to form

(a) 3° alcohol

(b) 2° alcohol

(c) ether

(d) no reaction

Q-22. Wood spirit is known as

(a) Methanol

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(b) Ethanol

(c) Acetone

(d) Benzene

Q-23. Solemnity is

(a) $Ca [B_3O_4(OH)_2] \cdot 2H_2O$

(b) $Ca_2B_6O_{11} \cdot 5H_2O$

(c) $Ca(OH)_2$

(d) $Na_2B_4O_7 \cdot 2H_2O$

Q-24. Which of the following can't be used in Friedan Craft's reactions?

(a) $FeCl_3$

(b) $FeBr_2$

(c) $AlCl_3$

(d) $NaCl$

Q-25. Which of the following meal has stable carbonates?

(a) Na

(B) Mg

(c) Al

(D) Si

Q-26. What is the net charge on ferrous ion?

(a) +2

(b) + 3

(c) +4

(d) +5

Q-27. Oxidation number of carbon in CH_2Cl_2 is

(a) 0

(b) 2

(c) 3

(d) 5

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Q-28. Internal energy is

- (a) Partly potential and partly kinetic
- (b) Totally kinetic
- (c) Totally potential
- (d) none of these

Q-29. Breeding arc method cannot be used to prepare colloidal solution of which of the following?

- (a) Pt
- (b) Fe
- (C) Ag
- (d) Au

Q-30. Which of the following oxides of nitrogen is solid?

- (a) NO_2
- (b) N_2O
- (c) N_2O_3
- (d) N_2O_5

Q-31. Containers A and B have same gases. Pressure, volume and temperature of A are all twice that of B, then the ration of number of molecules of A and B are

- (a) 1 : 2
- (b) 2
- (c) 1 : 4
- (d) 4

Q-32(117). The ration of by second orbital to the first orbits.

- (a) 1 : 2
- (b) 1 : 16
- (c) 8 : 1
- (d) 16 : 1

Q-33. Among them intensive property is

- (a) Mass

(b) Volume

(c) Surface tension

(d) Enthalpy

Q-34. Stainless steel is an alloy of

(a) Copper

(b) Nickel and chromium

(c) Manganese

(d) Zinc

Q-35. Orion has a unit

(a) Vinyl cyanide

(b) Carolina

(c) Glycol

(d) Isoprene

Q-36. Structure of H_2O_2 is

(a) Planer

(b) Non-planar

(c) Liner

(d) Three-dimensional

Q-37. Triple point of water is

(a) 273 K

(b) 373 K

(c) 203 K

(d) 193 K

Q-38. What is the % of acetic acid present in vinegar?

(a) 6-10%

(b) 70-80%

(c) 7-8%

(d) 90-100%

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Q-39. Nitrous oxide is known as

- (a) Breathing gas
- (b) Laughing gas
- (c) Exercising gas
- (d) Laboratory gas.

Q-40. Which of the following is the buffer solution?

- (a) $CH_3COOH + CH_3COONa$
- (b) $CH_3COOH + CH_3COONH_4$
- (c) $CH_3COOH + NH_4Cl$
- (d) $NaOH + NaCl$