General Science Model Test Questions 34 With Answers [Chemistry - 12]

1. The metal having negative Thomson effect is

(A) Ag

(B) Hg

(C) Sn

(D) Sb

2. ${}_{92}\mathsf{U}^{235} + {}_{0}\mathsf{n}^{1} \to {}_{56}\mathsf{Ba}^{141} + {}_{36}\mathsf{Kr}^{92} + {}_{30}\mathsf{n}^{1} + 200\mathsf{Mev}$

The above said reaction is a

(A) Nuclear fission reaction

(B) Nuclear fusion reaction

(C) Spallation reaction

(D) Equilibrium reaction

3. Which one of the following is used in making ointment for skin diseases?

(A) AgNO₃

(B) AgBr

(C) ZnCO₃

(D) AgCl

4. Which is the bond length of Br₂ molecule?

(A) 1.54

(B) 2.28

(C) 0.74

(D) 1.44

5. The order of ionization energy

(A) s

(B) s > p > d > f

(C) s > d > p > f

(D) s < d < p < f

6. The intramolecular hydrogen bonding is present in

(A) Salicylic acid

(B) Water

(C) M-nitrophenol

(D) P-nitrophenol

7. Among the following which will produce oxocations

(A) Lanthanides (B) Actinides

(C) Noble gases (D) Halogens

8. How do you observe the respiration by Ganong's respiroscope?

(A) CO₂ released

(B) Raise of water

(C) Raise of KOH Level

(D) O₂ released

9. The mole ratio of SO_2 and O_2 in contact process

(A) 1:2

(B) 2:1

(C) 3:1

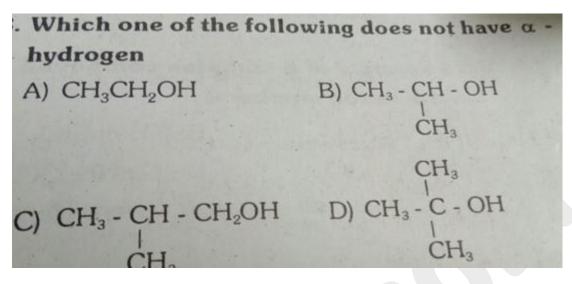
(D) 1:3

10. Which of the following statements are FALSE?

I) Nuclear reactor is based on the principle of uncontrolled fission reaction

II) Atom bomb is based on the principle of uncontrolled fusion reaction

	III) Hydrogen bomb is an example for nuclear fusion reaction.							
	(A) I and II	(B) II and III		(C) I and III	(D) I, II and III			
11.	In $\alpha\text{-decay}$ the change that occurs in the daughter element is							
	(A) Atomic number decreased by one							
	(B) mass number increases by four							
	(C) Proton number remains the same							
	(D) Neutron number decreases by two							
12.	The compounds sodium benzoate and potassium metabisulphate are used as							
	(A) Artificial sweetening agent		(B) Food preservative					
	(C) Antibiotic		(D) Dye	s				
13.	What is the name of the solution containing equal molecules of D(+) glucose and C(-) gluco							
	(A) Grape sugar		(B) Can	e sugar				
	(C) Invert sugar		(D) Non	-reducing sugar				
14.	What product is formed	roduct is formed after 2 moles of aniline treated with carbondisulphide?						
	(A) S – diphenyl thio urea		(B) S – phenyl thio urea					
	(C) S – triphyhyl thio uro	ea	(D) S – d	diphenyl urea				
15.	Which one of the following compound react with Grignard reagent to form carboxylic acid?							
	(A) Formaldehyde	(B) Acetaldehyc	de	(C) Acetone	(D) Carbon dioxide			
16.	Which one of the following compound is in wintergreen oil?							
	(A) Methyl acetate		(B) Met	hyl formate				
	(C) Methyl salicylate		(D) Ace	tyl salicylic acid				
17.	Phenol reacts with formaldehyde gives							
	(A) Bakelite		(B) Mal	echite green				
	(C) Malonic acid		(D) Tinc	ture benzoin				



Ans: (D)

- 19. Oxidation of glycerol with bismuth nitrate which gives
 - (A) Glyceric acid

(B) Glyceraldehyde

(C) Mesoxalic acid

- (D) Oxalic acid
- 20. Which one of the following reaction is not feasible?
 - (A) $Zn + H_2SO_4 \rightarrow ZnCO_4 + H_2$
- (B) $Cu^{2+} + H_2 \rightarrow Cu + 2H^+$
- (C) $Cu + H_2SO_4 \rightarrow CuSO_4 + H_2$
- (D) $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$
- 21. Ionic product of water at 298 K is
 - (A) $K_W = 1 \times 10^7 \text{ mol}^2 \text{ dm}^{-6}$
- (B) $K_W = 1 \times 10^{-7} \text{ mol}^2 \text{ dm}^{-6}$
- (C) $K_W = 1 \times 10^{14} \text{ mol}^2 \text{ dm}^{-6}$
- (D) $K_W = 1 \times 10^{-14} \text{ mol}^2 \text{ dm}^{-6}$
- 22. Tyndall effect is ----- kind property of colloids.
 - (A) Kinetic property

(B) Electrical property

- (C) Chemical property
- (D) Optical property
- 23. Unit of rate constant of a reaction can be calculated using the formula
 - (A) $Mol^{(1-n)} lit^{(n-1)} Sec^{-2}$
- (B) Lit⁽¹⁻ⁿ⁾ Mol⁽ⁿ⁻¹⁾ Sec⁻¹

(C) $Mol^{(1-n)} lit^{(n-1)} Sec^2$

- (D) Lit⁽ⁿ⁻¹⁾ Mol⁽¹⁻ⁿ⁾ Sec⁻¹
- 24. An example of a complex compound having coordination number 4
 - (A) $K_4[Fe(CN)_6]$
- (B) $[Co(en)_3]Cl_3$
- (C) [Fe(H₂O)₆]CI₃
- (D) [Cu(NH₃)₄]Cl₂

General Science

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- 25. Which of the following statement is correct with respect to Central metal atom?
 - (A) Accepts electron

(B) Accepts the pair of electron

(C) Donate electron

- (D) Donate pair of electron
- Pick out the complex used as anti-tumour drug. 26.
 - (A) cis - [Pt(NH₃)₂Cl₂]
 - (B) trans - $[Pt(NH_3)_2Cl_2]$
 - (C) cis - $[Pd(NH_3)_2(NO_2)_2]$
 - (D) trans - $[Pd(NH_3)_2(NO_2)_2]$
- 27. Which one of the following is an example of metal deficiency detect?
 - (A) NaCl
- (B) AgCl
- (C) CsCl
- (D) FeS
- What is General electronic configuration of the transition elements? 28.
 - (A) $(n-1)d^{0-10}ns^{1-2}$
- (B) (n-1)d¹⁻¹⁰ns¹⁻²
- (C) (n-1)d1-5ns2
- (D) (n-1)d⁰ns¹

- Choose the wrong statement regarding K₂Cr₂O₇ 29.
 - (A) It is a powerful oxidizing agent
- (B) It is used in tanning industry
- (C) It is soluble in water
- (D) It reduces ferric sulphate to ferrous sulphate

30. Match the following:

Alloy Composition (a) Bronze 1. Cu=87, Sn=10, Zn=3 (b) Brass 2. Cu=75-90, Sn=10-25 (c) Nichrome 3. Cu=60-80, Zn=20-40 (d) Gun metal 4. Cr=15, Ni=60, Fe=25 Codes:

- d (A) 2 3 1 2 (B) 1 3 (C) 4 2 1 3 (D) 1 2 3 4
- 31. The shape of PCI₅ is

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Page 5 of 6

	(A) Pyramidal		(B) Trigonal bipyramidal				
	(C) Linear		(D) Te	rahedral			
32.	What is the shape of p-orbitals?						
	(A) Spherical		(B) Clo	(B) Clover leaf shape			
	(C) Dumb – bell		(D) (B)	or (C)			
33.	Assertion (A): Inter molecular hydrogen bonding is formed between the two molecules of the same of different compounds.						
	Reason (R): Hydrogen bonding is possible when a six or five membered rings can be formed.						
	(A) Both (A) and (R) are true, and (R) is the correct explanation of (A)						
	(B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)						
	(C) (A) is true, but (R) is false						
	(D) (A) is false, but (R) is true						
34.	What chemical is used in solar cells?						
	(A) Calcium	(B) Cadmium		(C) Potassium	(D) Sodium		
35.	Nitrous oxide traps how many times more heat than carbondioxide?						
	(A) 20 times	(B) 300 times		(D) 500 times	(D) 50 times		
36.	Heat of combustion of hydrogen per unit weight is how many times more than that of hydrocarbon fuel?						
	(A) 2.5 times	(B) 3.5 times		(C) 4.5 times	(D) 1.5 times		
37.	Chemical name of Teflon is						
	(A) Poly propylene		(B) Poly Acetylene				
	(C) Poly tetra fluro ethylene		(D) Poly Vinyl alcohol				
38.	The compounds which have back bonding are						
	(A) Metal nitrates		(B) Metal carbonates				
	(C) Metal carbonyls		(D) Metal oxides				
39.	The ozone layer forms naturally by						
	(A) Interaction of CFC with oxygen						
	(B) Interaction o UV radiation with oxygen						

	(C) Interaction of IR radiation with oxygen						
	(D) Interaction of oxygen and water vapour						
40.	Inter molecular hydrogen bonding is present in						
	(A) O-nitrophenol		(B) Water				
	(C) Salicylic acid		(D) Salicylaldehyde				
41.	Fog is a colloidal solution	on of					
	(A) Gas in Liquid		(B) Liquid in gas				
	(C) Gas in solid		(D) Solid in gas				
42.	The compound formed when aniline is heated with Fuming sulphuric acid at 353K is						
	(A) p-amino benzene s	ulphonic acid					
	(B) o- amino benzene s	ulphonic acid					
	(C) m- amino benzene s	sulphonic acid					
	(D) p- nitro benzene su	lphonic acid					
43.	Find the incorrect state	ment:					
	I) Ozone depletion will	affect crop yield					
	II) Ozone depletion will not cause damage to fish larvae.						
	III) Ozone depletion wil	l cause skin cand	er in man.				
	(A) II only	(B) I only	(C) III only	(D) I, II and III are incorrect			
44.	Which salt is used in Test Tube funnel experiment?						
	(A) Potassium chloride		(B) Sodium bi carbonate				
	(C) Sodium carbonate		(D) Sodium chloride				