PSC WINNERS

96/2015 TRADESMAN - CHEMICAL ENGINEERING - TECHNICAL EDUCATION - TSR DIST

Date of Test :- 22.05.2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Which indicator is used in weak acid against Strong alkali titrations?

- (A) Methyl Orange(B) Both (A) and (D)(C) Starch(D) Phenolphthalein
- 2. What is the equivalent weight of Sodium Hydroxide?
 - (A) 40 (C) 56
- 3. What is the full form of EDTA used for the hardness estimation?
 - (A) Ethylene di nitro tetra amine
 - (B) Ethyl dichloro tetra acetate
 - (C) Ethylene di amine tetra acetic acid
 - (D) Ethyl di amine tetra alcohol
- 4. Temporary Hardness is removed by :
 - (A) Filtration
 - (C) Cooling
- 5. The lowest temperature at which enough vapour of the oil, when mixed with air will ignite but not continue to burn :
 - (A) Fire point(C) Flash point

(B) Pour point

Boiling

Decantation

63

53

(B)

(D)

(B)

(D)

- (D) Cloud point
- 6. Normality of a solution is defined as :
 - (A) Gram moles per millilitre
 - (C) Gram equivalents per millilitre
- (B) Gram moles per litre

(D) Gram equivalents per litre

- 7. Which of the following is a unit of alkalinity of water?
 - (A) Grams per millilitre
 - (C) Parts per million

A

- (B) Kilograms per litre
- (D) Volume per million
- 3

8. Which of the following is defined as the number of moles of solute per kilogram of solvent? (A) Normality (B) Molality (C) Molarity (D) Mole ratio Which chemical is known as caustic soda? 9. (A) Sodium carbonate (B) Sodium acetate (C) Sodium hydroxide (D) Sodium bicarbonate Which of the following is a by-product of soap industry? 10. (A) Shampoo (B) Oil Glycerol (C) (D) Glycol Which type of pencil is specified to draw the outlines of visible lines in Engineering Graphics? 11. (A) H (B) B HB (C) 2B(D) What is the area of A2 drawing sheet in square millimetre? 12. (A) 841×1189 (B) 594×841 297×420 (C) (D) 420×594 The longest diameter of ellipse is : 13. Minor axis (A) (B) Major axis (C) Conjugate diameter Focal diameter (D) 14. In first angle projection. Top view is always : Below x-y line (A) (B) Above x-y line (C) Øn x-y line None of the above (D) 15. Which of the following is an emulsifying agent? Glycerine (A) (B) Soap (C) Wax (D) Alcohol 16. What is the pH of a neutral solution? (A) 7 (B) 8 (C) 5 (D) 9 96/2015 4 A

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26.	What is t compound		dichrometric	ric titrations for the estimation of iron (II)
	(A)	Eriochrome black T	(B	(B) Methyl orange
	(C)	Thymol blue		(D) Ferroin
27.	What is t	he percentage composition of th	he Nitrogen	n in atmosphere?
	(A)	70	(B	(B) 78
	(C)	21	(D	(D) 0.9
28.	What is t	he white coloured precipitate fo	ormed durin	ing the gravimetric estimation of Sulphate?
	(A)	Barium sulphate	(B	(B) Calcium sulphate
	(C)	Sodium sulphate	(D	(D) Potassium sulphate
29.	Which of	the following is not a method o	f separation	n?)
	(A)	Chromatography	(A) (B)	B) Distillation
	(C)	Crystallisation		(D) Spectrometry
30.	Turbidity	of water is measured using	$\langle \rangle$	
	· (A)	Colourimeter	(B)	(B) Photometer
	(C)	Calorimeter		D) Nephelometer
31.		states that the emissive powe its absolute temperature.	r of a black	ck body is directly proportional to fourth
	(A)	Stefan-Boltzman law	(B)	B) Wien's law
	(C)	Kirchhoff's law	(D)	D) Fourier's law
32.	Which of	the following is a green house g	gas?	
	(A)	Nitrogen	(B)	B) Oxygen
	(C)	Argon	(D)	D) Carbon dioxide
33.	Viscosity	of a liquid decreases when the t	temperature	re
	(A)	Increases	(B)	B) Decreases
	(C)	Remains constant	(D)	D) Both (A) and (B)
34.	Which of t	the following type of pump requ	uires primin	ng?
	(A)	Reciprocating pump	(B)	B) Centrifugal pump
	(C)	Gear pump	(D)	D) Diaphragm pump
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SC WINNERS At constant temperature, volume of a gas decreases when its pressure : 35. Decreases Increases (B) (A) None of the above (C) **Remains** constant (D) Pipelines of different liquids and gases are identified by : 36. Altitude Diameter (B) (A) Colour code Thickness (D) (C) pH of N/1000 hydrochloric acid solution is 37. (B) 3 (A) 2 (D) 5 (C) 4 Which of the following is a manometric liquid? 38. (B) Oil Naphtha (A) (D) Mercury (C) Nitro benzene LNG is 39. Liquefied Nitrogen Gas Liquefied Natural Gas (B) (A) None of the above (D) (C) Liquefied Neutral Gas Which of the following is not a fire extinguisher? 40. (B) Carbon dioxide (A) Water Foam (D) (C) Air Which of the following is not an inflammable substance? 41. (B) Carbon tetra chloride Nitrogen (A) Liquefied Petroleum gas (D) Hydrogen (C) Cleaning action of the soap is due to : 42. Sodium ions present in the soap (A) (B) Fatty acid present in the soap Increasing the surface tension of water (C) Lowering of surface tension of water (D) 7 A



- (C) 7 ppm
- (D) 10 ppm
- 49. The amount of Oxygen required by bacteria for stabilizing decomposable organic matter in water under aerobic condition is known as :
 - (A) COD
 - (C) DO

(B) BOD

(D) Both (A) and (B)

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50. Iodine value of an oil measures :

- (A) The amount of NaOH required for complete saponification
- (B) The length of the carbon chain of the fatty acids
- (C) Degree of Unsaturation
 - (D) Degree of Saturation

51. Bronze is an alloy of :

- (A) Copper and iron
- (B) Copper and zinc
- (C) Copper. zinc and Tin
- (D) Copper and Tin
- 52. Iodine Mono chloride dissolved in Acetic acid is :
 - (A) Freon
 - (C) Wijs' solution
- 53. Catalyst used in the Contact process to oxidise sulphur dioxide to sulphur trioxide is :
 - (A) Ferric oxide
 - (C) Zinc Oxide

54. What is the unit of force in SI system?

Platinum

Acetate Buffer

Iodine solution

Vanadium Pentoxide

- (A) Ampere
 - (C) Newton

- (B) Joules
- (D) Watt

(B)

(D)

(B)

(D)

55. Name the process of giving iron with a thin coating of zinc to prevent rusting

(A)	Hot dipping	(B)	Galvanising
(C)	Painting	(D)	Electroplating

- 56. Which catalyst is used in hydrogenation of oil?
 - (A) Nickel (C) Phosphoric acid

A

- (B) Ferric Oxide
- (D) Platinum

57. Which of the following manufacturing process is an example of autocatalysis?

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- (A) Sulphuric acid manufacture
- (C) Phosphoric acid manufacture
- (B) Ammonia manufacture
- (D) Sugar manufacture



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	(A)	Plug valve	(B)	Diaphragm valve		
	(C)	Butterfly valve	(D)	Globe valve		
77.	A propelle	er is an :				
	(A)	Axial flow, low speed impeller	(B)	Radial flow, high speed impeller		
	(C)	Radial flow, low speed impeller		Axial flow high speed impeller		
78.	Fourdrinier machine is used in the manufacture of :					
	(A)	Sugar	(B)	Paper		
	(C)	Alcohol from molasses	(D)	Phenol formaldehyde		
79.	Hardened	steel is softened by :	.1	110		
	·(A)	Normalising	(B)	Annealing		
	(C)	Carburising	(1)	Tempering		
30.	Water purification technology that uses a semi permeable membrane to remove larger particles from drinking water is :					
	(A)	Chromatography	(B)	Filtration		
	(C)	Reverse osmosis	(D)	Demineralisation		
			(12)			
31.		er of Indian National Congress :	(12)			
31.		er of Indian National Congress :	(B)	A.O. Hume		
31.	The found	er of Indian National Congress :				
	The found (A) (C)	er of Indian National Congress : Annie Besant	(B)	A.O. Hume		
	The found (A) (C)	er of Indian National Congress : Annie Besant Lord Dufferin	(B)	A.O. Hume		
	The found (A) (C) Dandi ma	er of Indian National Congress : Annie Besant Lord Dufferin rch of 1930 is connected with the :	(B) (D)	A.O. Hume W.C. Bannerji		
81. 82. 83.	The found (A) (C) Dandi mat (A)	er of Indian National Congress : Annie Besant Lord Dufferin rch of 1930 is connected with the : Non-Co-operation Movement	(B) (D) (B) (D)	A.O. Hume W.C. Bannerji Quit India Movement Champaran Sathyagraha		
32.	The found (A) (C) Dandi mat (A)	er of Indian National Congress : Annie Besant Lord Dufferin rch of 1930 is connected with the : Non-Co-operation Movement Civil Disobedience Movement	(B) (D) (B) (D)	A.O. Hume W.C. Bannerji Quit India Movement Champaran Sathyagraha		
32.	The found (A) (C) Dandi mat (A) (C) Who decla	er of Indian National Congress : Annie Besant Lord Dufferin rch of 1980 is connected with the : Non-Co-operation Movement Civil Disobedience Movement red" Swaraj is my birthright and I s	(B) (D) (B) (D) shall have	A.O. Hume W.C. Bannerji Quit India Movement Champaran Sathyagraha		
32.	The found (A) (C) Dandi mar (A) (C) Who decla	er of Indian National Congress : Annie Besant Lord Dufferin rch of 1930 is connected with the : Non-Co-operation Movement Civil Disobedience Movement red" Swaraj is my birthright and I s Tilak	(B) (D) (B) (D) shall hav (B) (D)	A.O. Hume W.C. Bannerji Quit India Movement Champaran Sathyagraha e it"?' Gokhale S.N. Bannerji		
32.	The found (A) (C) Dandi mar (A) (C) Who decla	er of Indian National Congress : Annie Besant Lord Dufferin rch of 1930 is connected with the : Non-Co-operation Movement Civil Disobedience Movement red" Swaraj is my birthright and I s Tilak Bhagat Sing	(B) (D) (B) (D) shall hav (B) (D)	A.O. Hume W.C. Bannerji Quit India Movement Champaran Sathyagraha e it"?' Gokhale S.N. Bannerji		

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