CY104S1 (MCQ)_END SEM EXAM-2021

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* Required

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There are 20 MCQ type questions each carries one mark and only one correct answer.

3. Among these the best choice as a green chemistry solvent is____ * (1 Point)

- C6H6
- CH3OH
- C6H5N
- Both CH3OH and C6H4N

4. What is the dimensionality Buckminsterfullerene as a nanomaterial? * (1 Point)

- 3D
- 2D
- 0D
- 1D

5. When a brass rod of diameter 6 mm is subjected to a tension and the diameter changes. Calculate Poisson ratio for brass, Y for the brass is given as below: * (1 Point)

$tension = 5 \times 10^3 N,\ Diameter\ Changes = 3.6 \times 10^{-4} cm,\ Y = 9 \times 10^{10} N/m^2.$

- 1.31
- 0.61

- (●) 0.31
- ( ) *None of the above*

6. Among which coating technique is non-metallic/organic coating * (1 Point)

- (●) paints
- ( ) Galvanising
- ( ) Electroplating
- ( ) Metal Cladding

7. Among these which metal form volatile oxide films on the surface * (1 Point)

- ( ) Fe
- (●) Mo
- ( ) Pt
- ( ) Cu

8. Calgon is used for removal of___ * (1 Point)

- ( ) calcium carbonate
- (●) calcium sulphate
- ( ) magnesium carbonate
- ( ) none of these

9. Temporary hardness of water may be removed by adding____ *
(1 Point)

- ○ calcium chloride
- ○ calcium carbonate
- ◉ calcium hydroxide
- ○ sodium bicarbonate

10. 0.45 gm of CaCO3 was dissolved in HCl and the solution made up to 500 ml with distilled water. 50 ml of the solution required 50 ml of EDTA solution for titration. 50 ml of hard water sample required 18 mi of EDTA and after boiling and filtering required 10 ml of EDTA solution. Calculate temporary hardness of water. *
(1 Point)

- ◉ 144 ppm
- ○ 324 ppm
- ○ 180 ppm
- ○ 240 ppm

11. Zeolite used in zeolite softening process for the treatment of hard water gets exhausted after certain time of usage but can be regenerated by flushing it with____ *
(1 Point)

- ◉ 10% sodium chloride solution
- ○ 10% magnesium sulfate solution
- ○ 10% magnesium chloride solution
- ○ 10% calcium chloride solution

12. A galvanic cell consisting of Cu versus H2 electrode was used to determine the pH of an unknown solution which was placed in H2 electrode compartment. Concentration of Cu2+ was 1M and emf of the cell at 25°C was found to be 0.48V. Calculate the pH of this unknown solution. Given, reduction potential of copper electrode is 0.34V. *
(1 Point)

- ○ 1.785
- ◉ 2.136
- ○ 2.635
- ○ 3.758

13. The range of visible light found in the electromagnetic spectrum is____ *
(1 Point)

- ○ 1nm -200 nm
- ◉ 300 nm- 800 nm
- ○ 800 nm -1000nm
- ○ None of above

14. The 0.02 M colour solution gives the absorption value of 0.3 with using 1 cm of cell path length. If the concentration of solution is increased by 0.06 M, the value of % transmission will be, *
(1 Point)

- ○ 10%
- ◉ 12.5%
- ○ 20 %
- ○ 15 %

15. The resistance of a 0.01 N solution of an electrolyte was found to 210 ohm at 298 K using a conductivity cell with a cell constant of 0.88 cm–1. The specific conductance and equivalent conductance of solution are____ *
(1 Point)

- $2.19 \times 10^{-5} mho.cm^{-1} and\ 219\ mho.cm^{2}.eq^{-1}$
- $2.19 \times 10^{-3} mho.cm^{-1} and\ 219\ mho.cm^{2}.eq^{-1}$
- $4.19 \times 10^{-5} mho.cm^{-1} and\ 419\ mho.cm^{2}.eq^{-1}$
- (selected) $4.19 \times 10^{-3} mho.cm^{-1} and\ 419\ mho.cm^{2}.eq^{-1}$

16. Which polymerization technique will give the high purity of products? *
(1 Point)

- (selected) Bulk
- Solution
- Suspension
- Emulsion

17. The water used as a solvent in the following types of polymerization technique *
(1 Point)

- Solution
- (selected) Suspension
- Bulk
- None of above

18. The dye Malachite green is an example of _____dye *
(1 Point)

- Anthraquinone

- (●) Triarylmethane
- ( ) Azo
- ( ) Indigo

19. Which chemical nature of Penicillin structure mainly helps to inhibit the bacterial cell wall synthesis? *
(1 Point)

- (●) Electrophilic
- ( ) Nucleophilic
- ( ) Neutral
- ( ) None of the above

20. Which enzyme responsible for the cross-linking of bacterial cell wall synthesis? *
(1 Point)

- ( ) Oxygenase
- ( ) Lipase
- (●) Transpeptidase
- ( ) None of these

21. Deficiency of Iron causes which disease *
(1 Point)

- ( ) Scurvy
- ( ) Osteoporosis
- (●) Anemia
- ( ) None of the above

22. Volatile drug may be best administered by: *
(1 Point)

- ○ Oral route
- ◉ Inhalation
- ○ Sublingual route
- ○ Rectal route

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