Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Chemistry
Course Code - BSC(CSE)202/ BSC(ECE)202

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Answer all the questions. Each question carry one mark.

9. 1. The angular momentum of an electron of mass m moving in a circular orbit of radius r and velocity v is

Mark only one oval.

- mvr > nh/2π
- mv = h/2π
- mvr = nh/2π
- mvr < nh/2π

10. 2. The energy required to remove an electron from an isolated gaseous atom in its ground state to produce a unipositive ion in its ground state is

Mark only one oval.

- Electron affinity
- Ionization energy
- Electronegativity
- Bond energy

11. 3. In gauche form of n- butane two methyl groups are at angle

Mark only one oval.

- 55°
- 60°
- 45°
- 75°

12. 4. Δo increases as the metal changes from

Mark only one oval.

- 3d < 4d < 5d
- 5d < 4d < 3d
- 3d < 4d > 5d
- 4d < 3d < 5d

13. 5. E1 is best shown by..... alkyl halide

Mark only one oval.

- 1°
- 2°
- 3°
- 1° and 2°

14. 6. According to Crystal Field Theory in the octahedral complexes, the d orbital splits into

Mark only one oval.

- Higher t2g and lower eg level
- Lower t2u and higher eu level
- Lower t2g and higher eg level
- Lower eu and higher t2u level

15. 7. Which of the following is a closed system

Mark only one oval.

- A walking man
- Hydrogen gas filled in a baloon
- A cup of tea
- A pond

16. 8. In an adiabatic process

Mark only one oval.

- $\Delta q=0$
- $\Delta T=0$
- Glucose and lactose
- $\Delta H=0$

17. 9. In an isothermal expansion of an ideal gas

Mark only one oval.

- ΔS=0
- ΔV=0
- Δq=0
- ΔT=0

18. 10. For a spontaneous process,

Mark only one oval.

- ΔGT,P = 0
- ΔGT,P < 0
- ΔGT,P > 0
- Option 4

19. 11. Standard hydrogen electrode has been assigned to a potential of

Mark only one oval.

- 1.5 Volt
- 1.0 Volt
- 0.5 Volt
- 0 Volt

20. 12. Which one is true for a galvanic cell?

Mark only one oval.

- The cell potential is always positive
- The cell potential is always negative
- ΔG for the cell reaction is positive
- ΔG for the cell reaction is zero

21. 13. The unit of vander Waal's constant "a" is

Mark only one oval.

- atm L2mol-1
- atm L-2mol-2
- atm L2mol2
- mol-1L-1

22. 14. The relation between ΔG of the cell reaction and emf E of the cell is given by

Mark only one oval.

- ΔG=-nFE
- ΔG=nFE
- ΔG=FE/n
- ΔG=n/FE

23. 15. During the mixing of ideal gases at constant temperature and pressure entropy

Mark only one oval.

- Increases
- Decreases
- Remain unchanged
- Cannot be predicted

24. 16. The stereoisomers which rotates the plain polarized light towards right is known as

Mark only one oval.

- R
- D
- S
- d

25. 17. Light having a single wavelength and whose electronic vector vibrates in infinite no of planes is known as

Mark only one oval.

- Ordinary light
- Plane polarized light
- Monochromatic light
- All of these

26. 18. The stereoisomers which rotate the plain polarized light towards left is known as

Mark only one oval.

- l
- L
- D
- d

27. 19. In case of Carbohydrate which chiral carbon is taken to assign D,L nomenclature

Mark only one oval.

- First
- last
- Both First and last
- Second

28. 20. Which is the least stable form of n-butane

Mark only one oval.

- Eclipsed
- Staggered
- Partially eclipsed
- Gauche

29. 21. Let there be four groups OH, D, H, NH2 attached to the chiral carbon , Which one will have least priority sequence

Mark only one oval.

- OH
- D
- H
- NH2

30. 22. In Fisher projection formulae, one form can be converted to other form by rotation of what angle about the vertical axis

Mark only one oval.

- 60°
- 180°
- 360°
- Both 180° & 360°

31. 23. In case of Newmann projection formulae, the C atom facing the viewer is represented by

Mark only one oval.

- Circumference of circle
- Centre of Circle
- Square
- Both Circumference of circle and Centre of Circle

32. 24. Non superimposable mirror images are known as

Mark only one oval.

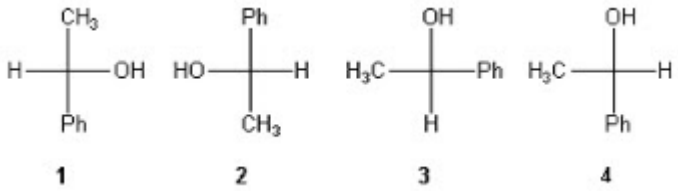
- Enantiomers
- Diasteromers
- Optical isomers
- Isomers

33. 25. Optical rotation depends on

Mark only one oval.

- Nature of sample and solvent
- Temperature of medium
- Wavelength of light used
- All of these

34. 26. Which of the following Fischer projections is different from the other three?



Mark only one oval.

- 1
- 2
- 3
- 4

35. 27. For E2 elimination the migrating H must be ..... to the leaving group

Mark only one oval.

- Syn
- Syn periplanar
- Anti
- Anti periplanar

36. 28. Iodination reaction is

Mark only one oval.

- Reversible
- Irreversible
- Reversible at high temperature
- Reversible at low temperature

37. 29. In nitration the electrophile is

Mark only one oval.

- NO3-
- HNO3
- NO2+
- N2O6

38. 30. Nitrobenzene is..... directing

Mark only one oval.

- Ortho
- Para
- Meta
- Both ortho and para