



Model Test

21. Carnallite is the mineral of which alkaline earth metal?
(1 marks)

☐ Be

☐ Na

☐ Mg

☐ Ca

22. Which of the following ions give clear coloured solution with excess of Ammonium hydroxide?
(1 marks)

☐ Mg^{++}

☐ Al^{++}

☐ Fe^{++}

☐ Cu^{++}

23. Water possesses a high dielectric, constant, therefore
(1 marks)

☐ it always contains ions

☐ it is a universal solvent

☐ can dissolve covalent compounds

☐ can conduct electricity

24. The oxidation number of sulphur in HCNS is
(1 marks)

☐ 0

☐ +2

☐ +4

☐ +6

25. Which of the following ion contains only covalent bond.
(1 marks)

☐ SO_4^{--}

☐ NO_3^-

☐ CO_3^{--}

☐ PO_4^{--}

26. Which of the following species has small size
(1 marks)

☐ Na^+

☐ Mg^{++}

☐ F^-

☐ Al^{+++}

27. The sum of values of principle Quantum number and azimuthal quantum number is larger for
(1 marks)

☐ 3s

☐ 4s

☐ 3d

☐ 3p

28. Water can act as both acid & base according to
(1 marks)

☐ Arhenius concept

☐ Bronsted & lowery concept

☐ Lewis concept

☐ All

29. If $y = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots \infty$ then $\frac{dy}{dx}$
(1 marks)

☐ 1 - y

☐ y

☐ 1 + y

☐ 2y

30. $\int \frac{e^{2x}-1}{e^x+1} dx =$
(1 marks)

☐ $\frac{e^{2x}}{2} - e^x + c$

☐ $e^x - x + c$

☐ $\frac{e^{2x}}{2} + e^x + c$

☐ $\frac{(e^x-1)^2}{2} + c$

Next

