

SAMPLE PAPER

2019 AIIMS

CHEMISTRY

SET-1

Roll No.

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ANSWER AND SOLUTION

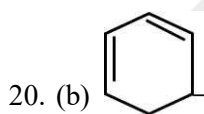
1. (b) 6.6×10^{-21}
2. (b) $8.0 \times 10^{-26} \text{ kg m s}^{-1}$
3. (c) > 737 and $< 766 \text{ kJ/mol}$
4. (a) SeF_4 , XeO_2F_2
5. (d) $\text{He}_2^+ < \text{O}_2^- < \text{C}_2 < \text{NO}$
6. (b) 3.5
7. (a) Alkaline nature of equivalence
8. (c) $\frac{b - 2a}{2}$
9. (b) 771.124 kcal
10. (a) 0.016
11. (a) I^-
12. (c) Fe^{3+} is an oxidising agent



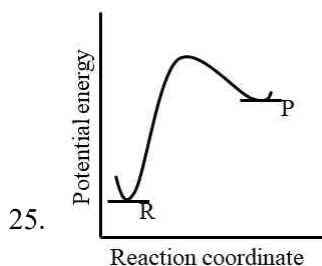
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13. (d) 4.08g/L
14. (c) $\text{CsO}_2 > \text{RbO}_2 > \text{KO}_2$
15. (b) $\text{BeCl}_2 < \text{MgCl}_2 < \text{CaCl}_2 < \text{BaCl}_2$
16. (b) $95^\circ, 120^\circ$
17. (d) Steam distillation
18. (a) 3-Methylhexane
19. (a) 3-nitrochlorobenzene

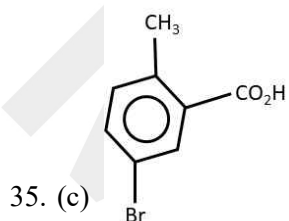
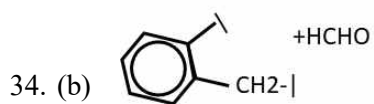


21. (d) Both (b) and ©
22. (a) 58 g mol^{-1}
23. (c) $P_1 > P_2$
24. (b) +0.35 V



26. (a) ZnS and BaSO_4
27. (c) It is a redox reaction
28. (d) $\text{PH}_3, \text{AsH}_3, \text{NH}_3$
29. (a) BaZnO_2
30. (b) Trans isomer
31. (a) $[\text{Ni}(\text{NO}_2)_6]^{4+} < [\text{Ni}(\text{NH}_3)_6]^{2+} < [\text{Ni}(\text{H}_2\text{O})_6]^{2+}$
32. (d) Both b and c

33. (b) iso panxane



36. (d) -COOH

37. (a) $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{NH}_2$

38. (a) Heptanoic acid

39. (a) Allosteric

40. (b) 2,4,6 – Triamino – 1,3,5 – triazine

41. (a)

42. (a)

43. (d)

44. (c)

45. (b)

46. (c)

47. (a)

48. (a)

49. (b)

50. (a)

51. (b)

52. (c)



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53. (a)

54. (a)

55. (b)

56. (b)

57. (c)

58. (a)

59. (a)

60. (a)



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