



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 6

Section A

1. What is vulcanization of rubber ?



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2. Write the name and structure of the monomers used for getting the following polymer

Bakelite



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3. Write the names and structures of the monomers of the following polymers.

i)Buna -S ii)Buna -N iii) Dacron iv)Neoprene



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4. What are disinfectants? Give example.



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5. What are food preservatives ? Give examples.



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6. Give the composition of the Brass.





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7. Give the composition of the German silver.



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8. What is a primary battery ? Give one example.



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9. How is chlorine manufactured by Deacon's method ?



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10. What happens when Cl_2 reacts with dry slaked lime ?



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11. Calculate the 'spin only' magnetic moment of Fe_{aq}^{2+} ion.



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12. What are isotonic solutions ?



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Section B

1. Calculate the mole fraction of H_2SO_4 in a solution containing 98 % H_2SO_4 by mass.



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2. Derive Bragg's equation .



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3. What are emulsion ? How are they classified ? Describe the applications of emulsions.



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4. Explain the purification of sulphide ore by Froth Floatation Method.



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5. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K



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6. Explain ionic bond with suitable example.



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7. How are XeF_2 and XeF_4 prepared ? Give their structures.



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8. Explain the following name reactions :

Sandmeyer reaction



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9. Explain the following name reactions :

Gatterman reaction



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1. How is nitric acid manufactured by Ostwald's process ?



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2. How is ozone prepared from oxygen ?

Explain its reaction

i) C_2H_4 ii) KI ii) Hg iv) PbS



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3. Give a detailed account of the Collision theory of reaction rates of bimolecular reaction.



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4. Explain the acidic nature of phenols and compare with that of alcohols.



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5. With a suitable example write equations for the Kolbe's reaction.



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6. With a suitable example write equations for the Reimer-Tiemann reaction.



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