



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 10

Section A

1. What are isotonic solutions ?



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2. What is metallie corrosion ? Give one example.



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3. Explain "Poling".



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4. What happens when white phosphorus is heated with conc. NaOH solution in an inert

atmosphere of CO_2 ?



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5. $K_4[Fe(CN)_6]$ is a



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6. Using IUPAC norms, write the systematic names of the $[Co(NH_3)_6]Cl_3$



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7. What are antiseptics ? Give examples.



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8. What are artificail sweerening agents?Give example.



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9. What is tailing of mercury? How is it removed ?



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10. Explain Wurtz - Fitting reaction



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11. Write the structures of the following compounds :

2 - Chloro-3-methyl pentane



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12. Write the structures of the following organic halides .

p-bromochlorobenzene ,



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Section B

1. Derive Bragg's equation .



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2. Calculate molecular mass of glucose ($C_6H_{12}O_6$) molecule.



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3. A solution of $CuSO_4$ is electrolysed for 10 minutes with a current of 1.5 amperes. What is the mass of copper deposited at the cathode ?



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



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5. Write the characteristic properties of transition elements.



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6. IUPAC names of monomers in Nylon-6,6 are



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

Polystyrene



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

polymer

Bakelite



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9. write the name and structures of the monomers used for getting the following polymers

i) Polyvinyl ii) Teflon iii) Bakelite iv) Polystyrene.



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10. Explain the following name reactions :

Sandmeyer reaction



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11. Explain the following name reactions :

Gatterman reaction



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12. 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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Section C

1. State and explain Kohlrausch's law of independent migration of ions.



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2. What are different types of adsorption ?

Give any four differences between characteristics of these different types.



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3. How is chlorine prepared by electrolytic method ? Explain its reaction with

NaOH



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4. How is chlorine prepared by electrolytic method ? Explain its reaction with

NaOH



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5. How is chlorine prepared by electrolytic method ? Explain its reaction with

NaOH



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6. Explain the structures of



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7. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction



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8. Explain the following reactions.

Williamson's Ether Synthesis Aldol
condensation



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9. Discuss aldol condensation.



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10. Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation



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