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Roll No

CY-110/CY-111-CBCS

B.E. I & II Semester

Examination, June 2020

Choice Based Credit System (CBCS)

Chemistry / Chemistry - I

Time : Three Hours

Maximum Marks : 60

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain VSEPR Theory.
b) Draw the molecular orbital diagram-NO, CO.
2. Discuss molecular orbital theory giving examples of O₂ and N₂ molecules.
3. a) Draw only phase diagram of copper-silver system.
b) Explain corrosion with reference to Daniel cell.
4. What are polymers? Give classification of polymers with suitable example. Explain Thermosetting and Thermoplastic polymers with examples.
5. a) Define Kohlrausch's law and discuss its applications.
b) Differentiate between order and molecularity of reaction.
6. a) Discuss Arrhenius theory of electrolytic dissociation.
b) Write note on Redox reactions.

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7. What is Vulcanisation? How does it improve the property of natural rubber?

OR

Write preparation and uses of

- i) Phenol-formaldehyde resin
- ii) PVC

8. Write brief notes on following (any two):

- a) Corrosion of metals
- b) VSEPR model
- c) Vulcanisation of rubber
- d) Electrochemical cell
