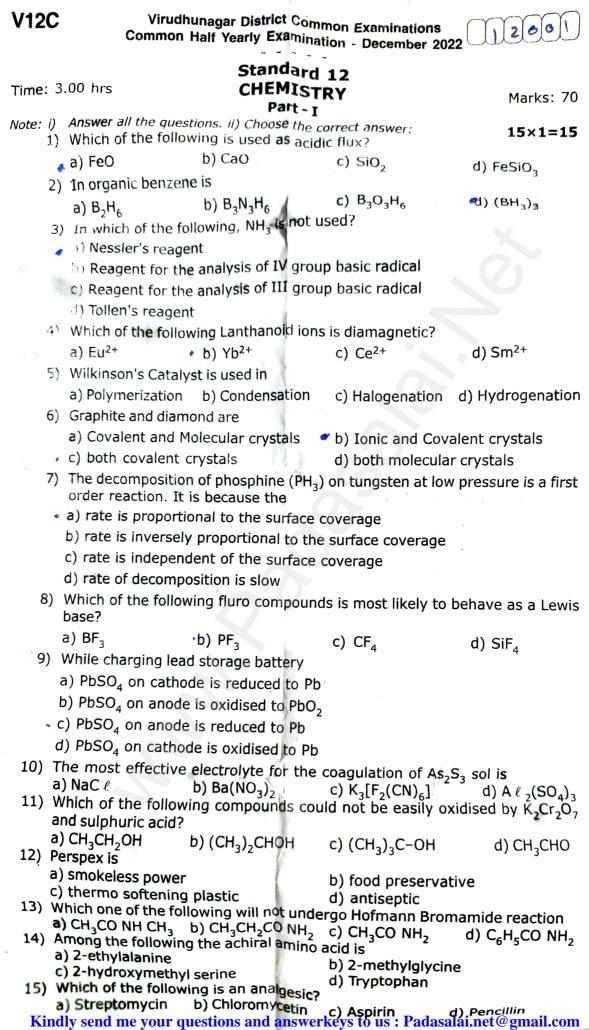
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2 Part - II

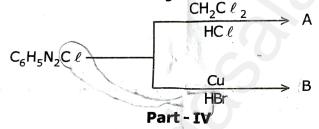
Answer any six questions. Q.No. 24 is compulsory;

- 16) What is meant by burnt alum?
- 7) What is meant by Ziegler-Natta catalyst?
- 3) Why ionic crystals are hard and brittle?
- Define ionic product of water.
-)) State Kohlrausch Law.
- 1) Write esterification reaction.
- 2) What is urotropine? Write its uses.
- 3) What are food Preservatives?
- 4) Write the structure of α -D(+) glutose.

Part III

ver any six questions. Q.No. 33 is compulsory:

- 25) Write note on Gravity separation method.
 - 26) Give the uses of silicones. 27) What are hydrate isomers? Explain with an example.
 - 28) Give the differences between order and molecularity of
 - 29) Calculate the pH of 0.001 M NaOH solution.
 - 30) Why are lyophillic colloidal sols are more stable than lyophobic colloidal sol?
 - 31) Aniline does not undergo Friedel Craft's reaction.
 - 32) What are reducing and non-reducting sugars? with an example.
- .33) Identify A and B in the following reaction:



ver all the questions:

- 34) [a] i) Write any two applications of the Ellingharm diagram.
 - ii) What are the various steps involved in extraction of pure metals from their ores? (OR)
 - b) Describe the structure of Diborane.
- 35) a) i) Give a reason to support that sulphuric acid is a dehydrating agent. ii) Why Europium (II) is more stable than Cerium (II)? (OR)
 - b) i) What are the limitations of VB theory?
 - Write a note on Schottky defect.
- 36) (a) i) Explain pseudo first order reaction with an example.
 - ii) What are buffer solutions?
 - b) Describe the construction of Daniel cell. Write the cell reactions.
- 37) a) Differentiate Physisorption and Chemisorption. (OR)
 - b) Write the following reactions.
 - i) Williamson eth
 - i) Write tests f

ii) How will you convert

- $\mathbf{N}\mathbf{H}_2$ group into $-\mathbf{N}\mathbf{H}_2$ group? Give one example.
- b) i) Give any three differences between DNA and RNA.

ii) What are antibiotics? Kindly send me your questions and answerkeys to us : Padasalai.net@gmail.com

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5×3=18

5×5=25

(OR)