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C16-A-AA-BM-CHST-AEI-CHOT-M-RAC-CHPP-EE-CHPC-EC-PET-C-CM-MET-MNG-TT-IT-104 HINA Dist " A.P.

6004

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL-2021

FIRST YEAR (COMMON) EXAMINATION

K.S GUDIAN ALIANS

PART-A

- **Instructions**: (1) Answer **all** questions.
 - (2) Each question carries **thee** marks.
 - (3) Answers should be been and straight to the point and shall not exceed five simple sentences.
 - 2⁰ 1. Distinguish between an orbital.

S

- Define oxidation number. What is the oxidation state of sulphur in 2
- soute, solvent and mole.

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- What is p^{H} ? Calculate the p^{H} of 0.01 *M* HCl solution. 4.

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- ъ.
- 7.
- Define primary pollutant and secondary pollutant. Give examples. Write any three threats to biodiversity. PART—B 10×5=50 tions: (1) Answer any five questions. (2) Each question carries ten marks. (3) Answers should be compretensive and criterion for 9.

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- **Instructions**: (1) Answer *any* **five** questions.

 - (3) Answers should be compresensive and criterion for valuation is the content but not the length of the answer.

(a) Explain Aufbau's principle with a suitable example. 11.

(b) Define ionic bond. Explain the formation of ionic bond in NaCl.

(a) Define Normality of 500 ml of solution 12. containing 94 grams H_2SO_4 (M. Wt. of $H_2SO_4 = 98$).

(b) Explain Bronsted-Lowry theory of acids and bases.

(a) Define the following : 13.

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- 14.
- 5 A.
- (a) Define soft water and hard water. What are the salts consing
 - (b) Define reverse osmosis. State any two applications
- (a) Write the preparation and uses of (i) PV and (ii) Polystyrene. 17. (b) Write any four characteristics of vulcased rubber.
- (a) Define air pollution. Explain any four causes of air pollution. (b) Write short note on (i) Greenhouse effect and (ii) Ozone layer A.A. M. M. S. J. S. B. A. * *

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