

C18-AA/A/CH/EI/FW/C/CM/EC/EE/
M/MET/MNG/PKG/TT-204

6204

BOARD DIPLOMA EXAMINATION, (C-18)

MARCH / APRIL - 2019

COMMON - II SEMESTER EXAMINATION

ENGINEERING CHEMISTRY &
ENVIRONMENTAL STUDIES

Time : 2 Hours]

[Total Marks : 40

PART - A

08×01=08

Instructions : (1) Answer ALL questions.
(2) Each question carries ONE marks.

- 1 Define flux.
- 2 What are the different types of plastics?
- 3 Define Galvanic cell.
- 4 What is the chemical formula of rust?
- 5 What is electrochemical series?
- 6 What are the different types of batteries?
- 7 Define primary pollutant.
- 8 Define water pollution.

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[Contd...

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PART - B

04×03=12

Instructions : (1) Answer any FOUR questions.
(2) Each question carries THREE marks.

- 9 (a) Write any six characteristics of metals.

OR

- (b) Write any three significances of electrochemical series.

- 10 (a) Write a method of preparation and two uses of polystyrene.

OR

- (b) Classify the air pollutants based on origin and give examples.

- 11 (a) Write any three differences between electrolytic cell and galvanic cell. <http://www.sbtetonline.com>

OR

- (b) Write the electrode reaction of lead storage battery during discharging.

- 12 (a) Write a short note on green house effect.

OR

- (b) Write a note on ozone layer depletion.

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[Contd...

- Instructions : (1) Answer any **FOUR** questions.
(2) Each question carries **FIVE** marks.

- 13 (a) Explain the formation of composition cell and stress cell.

OR

- (b) Describe the construction and working principle of Leclanche cell.

- 14 (a) Calculate the mass and volume of oxygen required for the complete combustion of 15 g of ethane (C_2H_6)

OR

- (b) Explain the causes of water pollution.

- 15 (a) Explain the construction and functioning of Galvanic cell.

OR

- (b) Explain working principle of H_2O_2 Fuel cell.

- 16 (a) Explain the control methods of water pollution.

OR

- (b) Explain the control methods of air pollution.

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