red	(10)	~ 1016 B	Reg. No	
		2010)	Signature	
INE V		IPLOMA EXAMINATION IN ENGINEERING MANAGEMENT/COMMERCIAL PRACTICE	G/TECHNOL — APRIL, 20	OGY/ 18
		APPLIED SCIENCE - II (Chemistry		
				ne: 1½ hours
		(Maximum marks : 50)		
		PART — A (Maximum marks : 4)		
		(mannan mana)		Marks
ı	Ans	swer all questions in one or two sentences. Each question	carries 2 marks.	. •
	(a)	Mention the monomer units of the following polymers.		
		(i) P V C (ii) Polythene		
	(b)	What is galvanisation?		$(2\times 2 = 4)$
		PART — B		
	, gi	(Maximum marks : 16)		
		(Answer any two full questions. Each question carri	es 8 marks.)	
11	(a)	Distinguish between absorption and adsorption.	•	4
	(b)	Distinguish between strong and weak electrolytes.		4
111	(a)	What is electrochemical series? Mention any two applicati	ons of it.	4
	(b)	What is vulcanization ? What are its advantages ?		. 4
IV	(a)	Mention any four differences between organic and inorganic	compounds.	4
	(b)	Distinguish between thermoplastic and thermosetting plastic.		4

[258]

[P.T.O.

PART — C

(Maximum marks: 30)

(Answer one full question from each unit. Each full question carries 15 marks.)

Unit — I

V	(a)	Mention four applications of adsorption.	6
	(b)	Illustrate the electrolysis taking molten NaCl as electrolyte.	5
	(c)	Distinguish between galvanic cell and electrolytic cell.	4
		OR	
VI	(a)	What is the chemical form of rust? Mention the conditions for rusting.	6
	(b)	Distinguish between primary cell and secondary cell. Give one example for each.	5
: 2	(c)	What are fuel cells ? What are its advantages ?	4 .
,•		Unit — II	
VII	(a)	Compare solid, liquid and gaseous fuels.	6
	(b)	What are functional groups? Show the functional groups of	* * T , T
		(i) acid (ii) ester (iii) alcohol	5
	(c)	What is the uniqueness of carbon atom ?	4
		OR	
VIII	(a)	What are the major impacts of air pollution? Explain briefly.	6
	(b)	What are the sources of water pollution?	5
	(c)	What are the important qualities of a good fuel?	4