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BET-013

DIPLOMA IN CIVIL ENGINEERING DCLE(G) / DIPLOMA IN MECHANICAL ENGINEERING (DME) / DCLEVI / DMEVI / DELVI / DECVI / DCSVI / ACCLEVI / ACMEVI / ACELVI / ACECVI / ACCSVI

Term-End Examination

June, 2018

00203

BET-013 : CHEMISTRY

Time : 2 hours

Maximum Marks : 70

- Note: Question number 1 is compulsory. Answer any other four questions from question numbers 2 to 8. All questions carry equal marks.
- 1. (a) Write the electronic configuration of He and Na [Atomic number of He = 2 and Na = 11].
 - (b) Name two important zones of the Atmosphere.
 - (c) What is Law of Octaves?
 - (d) What is an alloy ? Give two examples.
 - (e) Name four important ores of iron.
 - (f) What is crude oil?

 (g) Define Addition Polymer.
 7×2=14

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	2.	(a)	Discuss in detail about Modern Periodic Table.	10
		(b)	Which one is larger : Na or Na ⁺ ? Explain.	4
	3.	(a)	Write a detailed note on preparation, properties and uses of chlorine.	7
		(b)	Explain the Open Hearth Process with a neat diagram.	7
	4.	(a)	Explain the functioning of a Blast furnace with diagram.	7
		(b)	What is Froth Flotation ?	4
i,		(c)	What are Ceramics ?	3
	5.	(a)	What do you understand by sludge and scale formation in Boilers ?	5
		(b)	pH of a solution is 3. What is the pOH of the solution ? ($pK_w = 14$)	4
		(c)	What is water gas ? How is it prepared ? List its uses.	5
	6.	(a)	 Write the composition and uses of following alloys : (i) Bronze (ii) Brass 	4
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	(b)	What is desalination ?	4
	(c)	How do you determine the fire and flash points of a lubricant ?	6
7.	(a)	Enlist four gaseous fuels.	4
	(b)	Write short notes on stereochemistry of polymers.	4
	(c)	Explain about any two varieties of glasses.	6
8.	(a)	Explain cationic polymerisation.	4
	(b)	What do you understand by moulding of plastics.	4
	(c)	Why is glazing of ceramics required ? List different methods of glazing.	6

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