# 10/08\_EC-II\_FE\_Sem II (R-19)\_Inst Name

University of Mumbai

#### \* Required

### EC-II\_PART-B

### 1. Q1

	Solve any Three out of Five Questions	5 marks each
A	Write conventional and green synthesis of Indigo dye. Which principle of the green chemistry is supported by the green route?	
В	Explain protection of metallic object by impressed current method.	
С	A gaseous sample of the fuel has following composed $CH_4 = 13\%$ $C_2H_6 = 27\%$ $C_3H_8 = 35\%$ $C_4H_{10}$ CO = 5% Calculate volume of air required by 5 m <sup>3</sup> of this fu	= 10% O <sub>2</sub> $= 4%$ N <sub>2</sub> $= 6%$
D	Differentiate between: Galvanizing and Tinning.	
E	Calculate EMF of the following Galvanic cell. [Given: $E^{\circ} Ag = 0.799V$ and $E^{\circ} Cr = -0.740 V$ ] (-) $Cr (s) / Cr^{3+} (0.1M, aq.) // Ag^{+} (0.01M, aq.) / Ag (s) (+)$	

Files submitted:

2. Q2

	Solve any Three out of Five Questions	5 marks each
А	Write a short note on Galvanic Corrosion.	
В	Write general reaction and explain synthe advantages?	esis of biodiesel. What are it
С	4 g of coal was heated at 110 degree Celsius for mass of 3.75 g. This when heated at 950 degree of 3.35 g. This upon further heating at 750 degree	Celsius for 7 minutes gave mass ee Celsius in air for an hour left
	behind residue of constant mass of 0.150g. Calc analysis.	culate the results of proximate
D		culate the results of proximate

Files submitted:

3. Have you uploaded the required correct files \*

Mark only one oval.

Yes

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