TED ((10)–1004 Reg. No	
(REVIS	ION—2010) Signature	
FIF	RST SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/TECHNO OCTOBER, 2012	LOGY
	GENERAL ENGINEERING (Common-except DCP and CABM)	
	(Maximum marks : 100)	e: 3 hours
	tendered and departs to all the property of the	
	PART—A	Marks
I	Answer the following questions in one or two sentences. Each questions 2 marks.	
	1. List the different types of sand.	
	2. Give any two uses of steel in building works.	
	3. What is the function of differential?	
	4. Define impedance.	
0 =01	5. Give two applications of 3G.	(5×2=10)
	PART—B	8
II	Answer any five of the following. Each question carries 6 marks.	
	1. Explain characteristics of good brick.	
	2. Draw the line diagram of the power transmission system in an automobile.	
	3. Draw the diagram of steam power plant and explain its working.	
	4. What are the different types of cement used?	
	5. Explain with circuit diagram and vector diagram purely capacitive circuit.	
	6. Explain about Earthing.	
P	7. List the applications of LED.	(5×6=30)
	PART—C	
	(Answer one full question from each unit. Each question carries 15 marks.)	
	Unit—I	
III	(a) Explain the different types of Bricks.	8
	(b) Write the essential requirements of a good foundation.	7

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[279]

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	IV	(a)	Write short note on Ashlar masonry.	5
	700		Explain about English bond with diagram.	5
	1.30	(c)	What are the instruments used in chain surveying?	. 5
			Unit—II	
	V	(a)	With the help of a diagram explain working of Hydro electric power plant.	8
			Compare Petrol Engine and Diesel Engine.	V
		Mast	OR	
	VI	(a)	Explain the working of two stroke engine.	10
			Explain the working of diesel engine Power plant.	5
			UNIT—III	
	VII	(a)	Explain the system of distribution of electrical energy from the supply mains to the consumers circuit with diagram.	10
		(b)	Write short note on earth leakage circuit breaker.	5
			OR	
	VIII	(a)	Calculate the reactance of a 4µF capacitor at a frequency at 50Hz.	5
			Explain the main characteristics parallel circuits.	5
			A 100 W lamp is connected to 240 V supply. How much current does it drawn from the supply? How much electric energy is used by the lamp in 6 hrs?	5
			Unit—IV	
	IX	(a)	Explain about compact fluorescent lights.	5
			Draw the diagram of full wave rectifier circuit and explain its working.	10
			OR	
	X	(a)	Draw the block diagram of DC regulated power supply system and explain its working.	10
		(b)	Write note on applications of micro controllers.	5
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