TED (10) – 1004	Reg. No.
	Signature
(REVISION —2010)	
FIRST SEMESTER DIPLOMA EXAMINATION TECHNOLOGY — MARCH, 20	
GENERAL ENGINEERING	and the second section is the second
(Common except DCP and CABM	0
	[Time: 3 hours
(Maximum marks: 100)	was take altered
The second of th	and the state of t
	Marks
PART—A	
(Maximum marks : 10)	
I Answer the following questions in one or two sentence 2 marks.	s. Each question carries
<ol> <li>List the different types of sand.</li> </ol>	
2. What is meant by a four stroke engine?	
3. Name different electrical circuits.	
4. What is a micro controller?	
5. What is CDMA?	(5x2=10)
PART—B	
(Maximum marks : 30)	no name transported that they
II Answer any five of the following questions. Each question	n carries 6 marks.
1. Explain characteristics of good bricks.	figuress, ANA 61
2. Name 6 constituents of cement and their properties.	
3. List any 6 classification of IC engine.	DENSEMBLE DE
4. Briefly describe the functions of following component	s of IC engine:
	Camshaft
5. Write short note on:	
(a) Inductance (b) Capacitance	
6. Briefly describe:	
(a) Fuel cells (b) Solar cell	
7. Explain about switch mode power supply with the he	elp of a block diagram. (5x6=30)
	(340-30)

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## PART—C

## (Maximum marks: 60)

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

## Unit - I

III	(a)	Explain the different type bricks.	8
	(b)	Write the essential requirements of a good foundation.	7
		OR	
IV	· (a)	Describe about any 4 instruments used in chain survey.	8
	(b)	Explain the different steps associated with the preparation of concrete.	7
		Unit – II	
V	(a)	With the help of a sketch explain the working of hydro electric power plant.	8
	(b)	Compare petrol engine and diesel engine by listing 7 points.	7
		OR .	
VI	(a)	Explain the working of four stroke diesel engine with the help of necessary sketches.	8
	(b)	With the help of a diagram explain the working of steam power plant.	7
		Unit - III	
VII	(a)	Explain the system of distribution of electrical energy from the supply mains to	
		the consumers with circuit diagram.	7
	(b)	An AC series circuit consist of a resistance of 18 ohms and an inductive	
THI.		reactance of 28.4 ohms. If it is supplied by a voltage of 240V and 50Hz. Calculate:	
		(i) Impedance (iii) Power factor	
		(ii) Current (iv) Power of the circuit	8
		OR	
ЛII	(a)		
		(i) Phase difference (ii) RMS value	7
	(b)	An AC series circuit consists of 480 ohms resistor a 9.5MF capacitor and 2.91H inductor. If the supply voltage is 230V at 50Hz Calculate:	
	6	(i) Capacitive reactance (iii) Total impedance	
1		(ii) Inductive reactance (iv) Power factor	8
		Unit – IV	
IX	(a)	Compare inverter and UPS by listing any 4 points.	8
	(b)	Write short note on:	
		(i) FDMA (ii) TDMA	7
		OR	
X	(a)	Write short note on:	
	4	(i) Integrated circuit (ii) Micro controllers	8
	(b)	List 7 internal parts of a Micro controller with a block diagram.	7