TED (10)-1004

(REVISION-2010)

Reg. No.

Signature

FIRST SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY OCTOBER, 2012

GENERAL ENGINEERING

(Common-except DCP and CABM)

[*Time* : 3 hours

(Maximum marks: 100)

PART—A

Marks

 $(5 \times 2 = 10)$

 $(5 \times 6 = 30)$

- I Answer the following questions in one or two sentences. Each question carries 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.
 - 5. Give two applications of 3G.

PART-B

- 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.
 - 7. List the applications of LED.

PART-C

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

UNIT-I

- III (a) Explain the different types of Bricks.
 - (b) Write the essential requirements of a good foundation.

Or

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IV (a) Write short note on Ashlar masonry.(b) Explain about English bond with diagram.(c) What are the instruments used in chain surveying ?		5
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	ro electric power plant.	
Unit—II	ro electric power plant.	
V (a) With the help of a diagram explain working of Hyd		3
(b) Compare Petrol Engine and Diesel Engine.	7	7
. Or		
VI (a) Explain the working of two stroke engine.	10	1
(b) Explain the working of diesel engine Power plant.	. 5	i
UNIT-III		
VII (a) Explain the system of distribution of electrical energy the consumers circuit with diagram.	gy from the supply mains to 10	
. (b) Write short note on earth leakage circuit breaker.	5	
Or		
VIII (a) Calculate the reactance of a $4\mu F$ capacitor at a free	quency at 50Hz. 5	
(b) Explain the main characteristics parallel circuits.	5	
(c) A 100 W lamp is connected to 240 V supply. How from the supply? How much electric energy is us		
Unit—IV		
IX (a) Explain about compact fluorescent lights.	5	ă
(b) Draw the diagram of full wave rectifier circuit and a	explain its working. 10	
Or		
X (a) Draw the block diagram of DC regulated power su working.	apply system and explain its 10	
(b) Write note on applications of micro controllers.	5	

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