

: Instructions to Candidates:

- Pari—A: Short answer questions (up to 25 words) 5 × 2 marks = 10 marks. All five questions are compulsory.
- Part + B: Analytical/Problem solving questions 4×10 marks = 40 marks. Candidates have to answer four questions out of six
- Part C: Descriptive/Analytical/Problem Solving questions 2 × 15 marks = 30 marks. Candidates have to answer two questions out of three.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL 2 NIL 2

PART - A

Q.1

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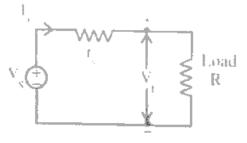


Figure - (1)

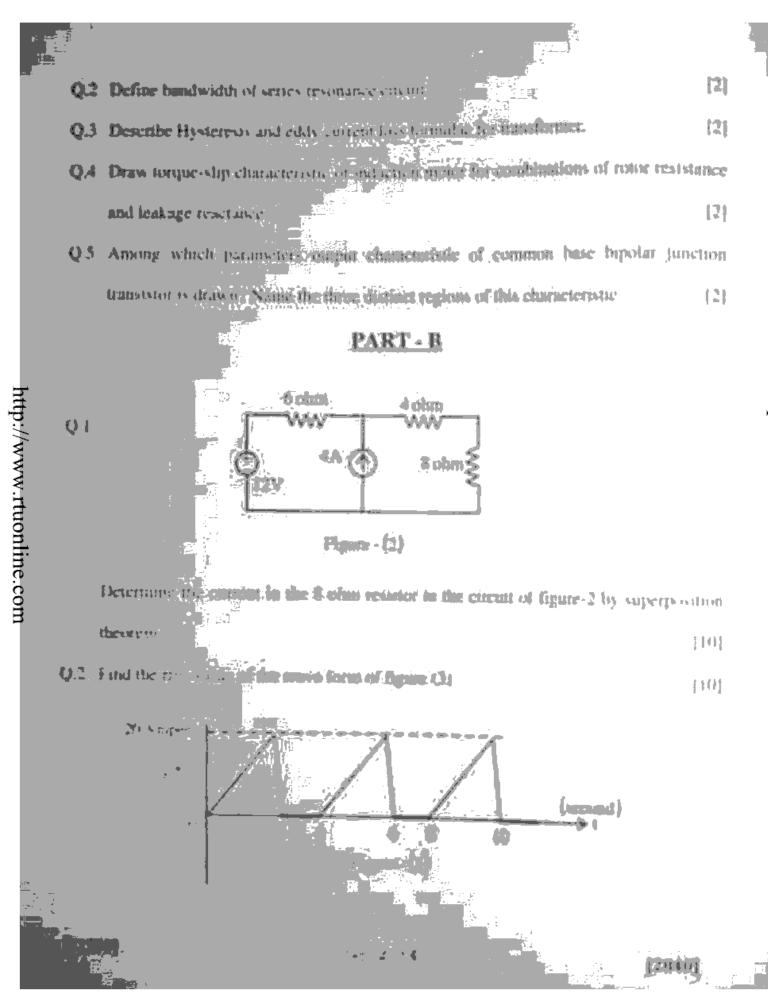
For the circuit of figure - (1), $V_S = 12 \text{ Volt. } r_S = 0.3 \text{ ohm and load current } (I_L) = 10$ Amorre: Calculate total power supplied by the practical source.

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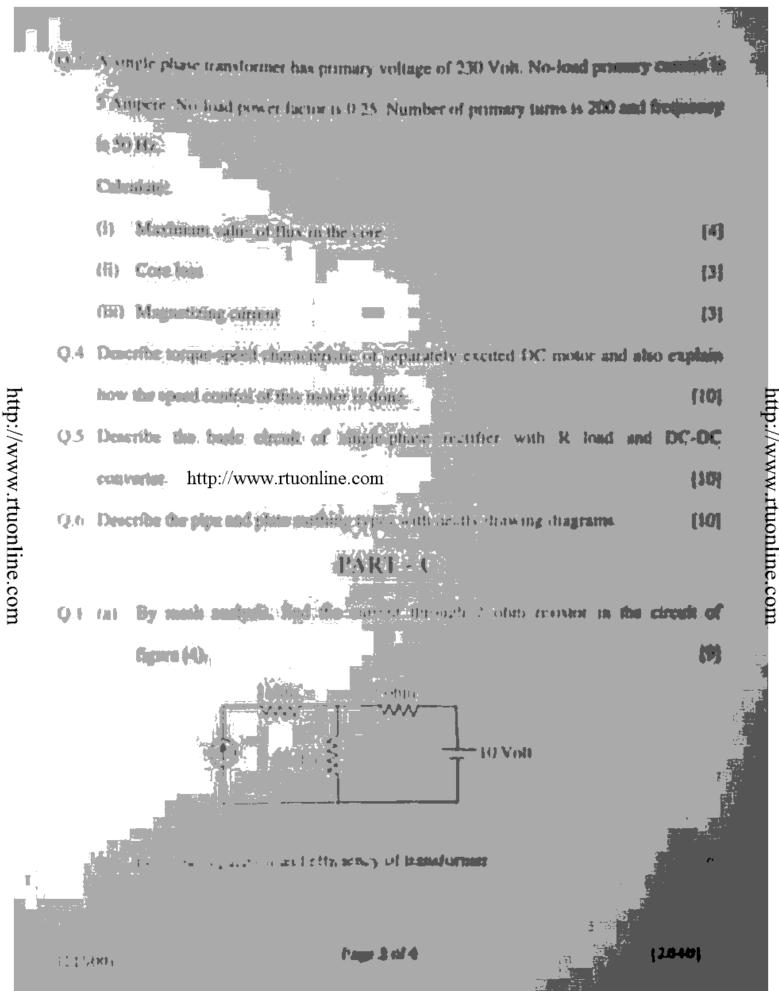
Page 1 of 4

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121



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Q.2 (a)		A voltage of 150 Volt, 50 Hz is applied to a coil of negligible resistance wid	
		inductance 0.2 Henry. Write the time equation for voltage and current.	193
	(b)	Describe the working of synchronous generator explaining its principle.	[6]
Q.3	(a)	What is meant by power transistor? Explain it in detail and also describe IGBT	
		with their applications.	[9]
	(b)	Describe any of pipe and plate earthing types drawing neat diagram.	161

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