

https://shikshamentor.com/elements-ofelectrical-engg-sem-ii-msbte-k-scheme/ 312315 - Elements of Electrical Engg. (Sem II) As per MSBTE's K Scheme EJ / ET / AO / DE / EX / IC / IE / IS / MU / TE

Unit I Magnetic circuits		Marks - 12	
S. N.	MSBTE Board Asked Questions	Exam Year	Marks
1.	Define Reluctance. What is its units?	W-2018	2
2.	Explain self induced emf and mutually induced emf with neat sketch.	W-2018	4
3.	Compare magnetic circuit and electric circuit on any four points.	W-2018	4
4.	Explain B-H curve and draw with all parameters	W-2018	4
5.	Define Faraday's first law of electromagnetic induction.	S-2018	2
6.	Explain with neat diagram series and parallel magnetic circuits.	S-2018	4
7.	Explain dynamic and static induced emf. with neat diagram.	S-2018	4
8.	State Fleming's right hand rule	S-2019	2
9.	Compare electric and magnetic circuit on any four points	S-2019	4
10.	Define- (i) Flux density (ii) Field strength (iii) Permeability (iv) Reluctance	S-2019	4

	A coil of 500 turns wound uniformly on an iron ring of mean		
11.	circumference 50 cm and cross sectional area of 4/p cm2, carries	S-2019	1
	a current of 1 A. find (i) MMF (ii) Field strength (iii) Reluctance		4
	(iv) Flux Take mr = 1000		
12.	State Faraday's law of Electromagnetic Induction	W-2019	2
13.	Draw and explain B-H curve of magnetic material.	W-2019	4
	Explain with neat diagram Lenz's law. State its any two	W-2010	4
14.	applications.	W-2017	т
15.	Explain how Fleming's right hand rule helps to deciding direction	W-2019	4
	of induced EMF.	W 2017	Т
16.	Draw series and parallel magnetic circuit.	S-2022	2
17.	Draw and explain Hysteresis Loop		4
	Define each of the following terms : (i) Magnetic flux (ii) Magnetic		
18.	flux Density (iii) Reluctance (iv) Permeability	S-2022	4
	An iron ring of mean circumference of 90 cm is uniformly wound		
10	with 600 number of turns of wire. Calculate the value of flux	S-2022	4
19.	density that a current of 1.5 A would produce in the ring. Assume		
	relative permeability of 1400.		
20.	Define term : (i) Permeability (ii) Reluctance	W-2022	2
21.	Explain Faraday's law of electromagnetic induction.	W-2022	4
22.	Explain static and dynamic induced emf with neat diagram	W-2022	4
23.	Draw and explain B-H curve for magnetic material.	W-2022	4
24.	Define Magnetic circuit.	SampleQP	2

25.	Compare Electric Circuit and Magnetic Circuit on any four points.	SampleQP	4
26.	Explain with neat diagram Static and Dynamic Induced EMF.	SampleQP	4
27.	A non-magnetic ring has a mean diameter of 44.5 cm and a cross- sectional area of 12 cm2 . It is uniformly wound with 500 turns. Calculate the field strength and total flux produced in the ring by a current of 1Amp.	SampleQP	4
28.	Explain Faraday's law of electromagnetic induction.	W-2023	2
29.	Compare Electric Circuit and Magnetic Circuit on any four points.	W-2023	4
30.	Define each of the following terms : (i) Magnetic flux (ii) Magnetic flux Density (iii) Reluctance (iv) Permeability.	W-2023	4
31.	Draw and explain B-H curve for magnetic material.	W-2023	4

Thank You

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