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COLLEGE OF ENGINEERING & TECHNOLOGY,
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING **SET-B**
Cycle Test – II

Academic Year: 2021-2022 (EVEN SEM)
 Program offered: B.Tech
 Year / Sem : I/II
 Course Code and Title: 18EES101J/ BASIC ELECTRICAL
 AND ELECTRONICS ENGINEERING
 Maximum Marks: 50
 Part A Duration: 20 mins [8.00-8:20 AM]

Learning Assessment (CLA 1)			
Levels	Level of Thinking	Weightage Required (%)	Weightage Provided(%)
1	Remember	40%	36%
	Understand		
2	Apply	60%	64%
	Analyze		
	Create		

PART A (Answer all the questions)

10x1 MARK=10 MARKS

Q. No.	Questions [BUBBLE (ROUND) THE CORRECT ANSWER, DO ROUGH WORK IN MAIN ANSWER SHEET]	Refer ence to CO	Ref er ence to PO	Bloom's Taxonomy	Mark s Allott ed	Marks Scored
1.	The maximum positive or negative value of an alternating quantity is termed as <input type="radio"/> Amplitude <input type="radio"/> Cycle <input type="radio"/> Phase <input type="radio"/> Waveform	CO2	1	Understand	1	
2.	In a circuit with purely inductance <input type="radio"/> Voltage and current are 180 degree out of phase <input type="radio"/> Current lags the voltage by 90 degree <input type="radio"/> Voltage and current are in phase <input type="radio"/> Current leads the voltage by 90 degree	CO2	1,2	Understand	1	
3.	----- is the source of producing the magnetic flux in a magnetic circuit. <input type="radio"/> Reluctance <input type="radio"/> Flux density <input type="radio"/> Magneto Motive Force <input type="radio"/> Electro Motive Force	CO2	1,2	Understand	1	
4.	In D.C generator lamination of core material are generally made up of <input type="radio"/> Cast iron <input type="radio"/> Stainless steel <input type="radio"/> Carbon <input type="radio"/> Silicon Steel	CO2	1,2	Understand	1	
5.	The interaction of armature flux with field flux is called as <input type="radio"/> armature reaction <input type="radio"/> Rectification <input type="radio"/> Residual magnetism <input type="radio"/> demagnetization	CO2	1,2	Understand	1	

6.	<p>Zener diode is generally used in</p> <ul style="list-style-type: none"> ○ LED ○ Clippers ○ Voltage regulators ○ Rectifiers 	CO3	1,2	Understand	1	
7.	<p>Moving Iron instruments can be used for the measurement of</p> <ul style="list-style-type: none"> ○ AC Only ○ DC Only ○ Both AC and DC ○ Neither AC nor DC 	CO3	1,2	Understand	1	
8.	<p>The transformer ratings are usually expressed in terms of</p> <ul style="list-style-type: none"> ○ KW ○ KVAR ○ KVA ○ Volts 	CO3	1,2	Understand	1	
9.	<p>In a BJT,</p> <ul style="list-style-type: none"> ○ Emitter current – Base Current = Collector Current ○ Collector current – Base Current = Emitter Current ○ Emitter current – Collector Current = Base Current ○ Emitter current = Base Current = Collector Current 	CO3	1,2	Understand	1	
10.	<p>A circuit with predetermined DC level is added to output voltage is called</p> <ul style="list-style-type: none"> ○ Positive clipper ○ Clamper ○ Half wave rectifier ○ Full wave rectifier 	CO3	1	Understand	1	

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Date : 03-06-2022

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SET-B

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Duration: 1 hr 40 mins [8.00-9.40 AM]

PART B(Answer all the questions)

4x4 MARKS=16 MARKS

Q. No.	Questions	Refer ence to CO	Refer ence to PO	Blooms Taxonomy	Mar ks Allot ted	Marks Scored
11.	Calculate Average value of sinusoidal waveform.	CO2	1,2	Apply	4	
12.	Why the single phase induction motor is not self starting and how to start the motor?	CO2	1	Apply	4	
13.	What is meant by earthing? Briefly explain about plate earthing with a neat sketch .	CO3	1	Understand	4	
14.	What is Clamper? Explain positive clamper with suitable circuit.	CO3	1	Understand	4	

PART C(Answer all the questions)

2x12 MARKS=24 MARKS

Q. No.	Questions	Refer ence to CO	Refer ence to PO	Blooms Taxonomy	Mark s Allott ed	Marks Scored
15. a	The number of turns in a coil is 250. When a current of 2 A flows in this coil, the flux in the coil is 0.3 m Wb. When this current is reduced to zero in 2 m sec., the voltage induced in another coil is 63.75 V. If the coefficient of coupling between the two coils is 0.75, find the self inductances of the two coils, mutual inductance and the number of turns in the second coil.	CO2	1,2	Apply	12	
	OR					
15. b	Explain the Characteristics of DC Shunt and Series generator with a neat sketch and mention its applications.	CO2	1,2	Apply	12	
16. a	Explain the operation of a measuring instrument which is used to measure DC quantities with neat diagram.	CO3	1,2	Apply	12	
	OR					
16. b	(i)Explain the construction of MOSFET and its operation .Mention its applications. (ii)Compare BJT and FET.Any Two .	CO3	1,2	Apply	10+2	

Total Marks Scored:

Signature of the Faculty