C

Question Paper Code: U2726

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Second Semester

Electrical and Electronics Engineering

	21	UME226- Basic Civil ar	nd Mechanical Engineer	ring	
		(Regulation	ons 2021)		
Dura	ation: Three hours	Iaximum: 100 Marks			
		Answer Al	l Questions		
		PART A - (52	x 1 = 5 Marks		
1.	In a mortar, the bir	nding material is	·		CO1- U
	(a) Cement	(b) Sand	(c) Cinder	(d) Surkh	ni
2.	Failure of the stability of slopes, generally occurs along			·	CO2- U
	(a) Slip plane	(b) a horizontal surface	(c) a curved surface	(d) all the su	ırfaces
3.	The most abundan	tly available fossil fuel in	India is		CO3- U
	(a) Coal	(b) Natural Gas	(c) Petroleum	(d) Oil	
4.	What is the combustion in spark ignition engine?				CO4- U
	(a) Heterogeneous	(b) Laminar	(c) Homogeneous	(d) None of	the above
5.	Function of the eva	aporator is			CO5- U
	(a) To absorb heat (b) To decrease the refrigeration effect			et	
	(c) To reject heat		(d) To improve C.O.P		
		PART - B (5 :	x 3= 15Marks)		
6.	Define bearing cap	eacity of soil.		C	O1- U
7.	Classify the types	of bricks.		C	O2- App
8.	Point out the function of Draft tube in hydroelectric power plant.				O3- App
9.	Explain the function of spark plug and fuel plug CO				
10.	Define Ton of Ref	rigeration.		C	O5- U

PART – C (5 x 16= 80 Marks)

11.	(a)	Explain the factors to be considered for the site preparation for construction.	CO1-U	(16)
		Or		
	(b)	Describe in details the different types of bond in brick wall.	CO1-U	(16)
12.	(a)	Explain with neat sketch of a reinforced cement concrete column. Or	CO2-U	(16)
	(b)	List the six important points to be considered while selecting a site for construction of Dam.	CO2-U	(16)
13.	(a)	Describe the functions, advantages and disadvantages of a hydroelectric power plant with neat sketch. Or	CO3-U	(16)
	(b)	Describe the functions, advantages and disadvantages of a Steam power plant with sketch.	CO3-U	(16)
14.	(a)	Describe the principle, parts and functions of a Two Stroke Petrol engine with neat sketch. Or	CO4-U	(16)
	(b)	Describe the principle, parts and functions of a Four Stroke Compression ignition (CI) engine with neat sketch.	CO4-U	(16)
15.	(a)	Describe with neat sketch of vapour absorption refrigeration system.	CO5-U	(16)
		Or		
	(b)	Explain with neat sketch the working principle of window type room air conditioner	CO5-U	(16)