C

# **Question Paper Code: U2726**

### B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

#### Second Semester

### Electrical and Electronics Engineering

	21	UME226- Basic Civil an	nd Mechanical Engineer	ring	
		(Regulati	ons 2021)		
Dura	ation: Three hours		M	aximum: 100 Mar	ks
		Answer Al	l Questions		
		PART A - (52	x 1 = 5  Marks		
1.	In a mortar, the binding material is			(	CO1- U
	(a) Cement	(b) Sand	(c) Cinder	(d) Surkhi	
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 surfa	ces
3.	The most abundant	tly available fossil fuel in	ı India is	_	CO3- U
	(a) Coal	(b) Natural Gas	(c) Petroleum	(d) Oil	
4.	What is the combustion in spark ignition engine?				
	(a) Heterogeneous	(b) Laminar	(c) Homogeneous	(d) None of the	above
5.	Function of the evaporator is			(	CO5- U
	(a) To absorb heat		(b) To decrease the refrigeration effect		
	(c) To reject heat		(d) To improve C.O.P		
		PART - B (5 :	x 3= 15Marks)		
6.	Define the principl	es of Surveying		CO1-	U
7.	Classify the types of bricks.			CO2- App	
8.	Point out the functi	CO3-	App		
9.	Explain the function	CO4- U			
10.	Define Ton of Refi	CO5- 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.	CO4-U	(16)
	(b)	Or 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)
	(b)	Or Explain with neat sketch the working principle of window type room air conditioner	CO5-U	(16)