Reg. No.:					

Question Paper Code: 41725

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Second Semester

Computer Science and Engineering

14UME205 – BASIC CIVIL AND MECHANICAL ENGINEERING

(Common to EEE, ECE, EIE, ICE, MECH and IT)

		(Regulat	ion 2014)				
Du	ration: Three hours		Ν	Maximum: 100 Marks			
		Answer AL	L Questions.				
		PART A - (10	x 1 = 10 Marks)				
1.	The process of d Levelling.	etermining the relative	in the verti	cal plane is referred as			
	(a) length	(b) height	(c) breadth	(d) angle			
2.	Steel sections are g	generally made of low	carbon steel or mild st	teel with less than 0.25			
	(a) calcium	(b) nitrogen	(c) hydrogen	(d) carbon			
3.	The internal forces cause internal distributed throughout the material of the body						
	(a) stress	(b) strain	(c) stress and strain	(d) none of these			
4.	The unit for strain is	3					
	(a) Newton	(b) mm/mm	(c) mm	(d) N/mm			
5.	Coal is used in	power plant.					
	(a) Thermal	(b) Hydo electric	(c) Nuclear	(d) Diesel			
6.	For emergency need of power we use power plant.						
	(a) Gas	(b) Steam	(c) Diesel	(d) Hydro Electric			
7.	Boiler is used to pro	oduce					
	-	(b) steam	(c) ice	(d) gas			

8.	The other name for Po	C			
	(a) SI Engine	(b) CI Engine	(c) Diesel	(d) Gas Turbin	ie
9.	In a vapor-compression the	on refrigeration syst	em, the abrupt reduction	of pressure takes	place in
	(a) compressor	(b) condenser	(c) throttle valve	(d) evaporator	
10.	Rating of domestic re	_			
	(a) 5 tons	(b) 10 tons	(c) 0.1 tons	(d) 40 tons	
		PART - B (S	$5 \times 2 = 10 \text{ Marks}$		
11.	Classify the types of l	Bricks?			
12.	Differentiate Substruc	cture and Superstruc	ture.		
13.	List three solid/liquid	/gaseous fuels			
14.	Define IC Engines.				
15.	What is Refrigeration	?			
		PART - C (5	x 16 = 80 Marks)		
16.	(a) Explain in detail	about the types, clas	sifications, and principle	s of surveying.	(16)
			Or		
	(b) Discuss in detail	about the types, prop	perties and uses of cemer	nt.	(16)
17.	(a) Explain the vario	us types of foundation	ons.		(16)
			Or		
	(b) Briefly explain th	e types of flooring.			(16)
18.	(a) Explain in detail	about Nuclear Powe	r plant with merits and d	emerits.	(16)
			Or		
	(b) Discuss the work	ring principle of sing	gle acting and double ac	ting Reciprocating	pumps. (16)
19.	(a) Explain in detail	about four stroke pe	trol engines with a neat s	ketch.	(16)
			Or		
	(b) Compare Four str	okes and two stroke	s Engine.		(16)

20.	(a)	Explain in detail about the Principle of vapour compression and absorption system.	
			(16)
		Or	
	(b)	Briefly explain the layout of Split type room Air conditioner with a sketch.	
			(16)