		Reg. No. :											
Question Paper Code: 52708													
B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020													
Second Semester													
Mechanical Engineering													
15UME208 - BASIC CIVIL AND MECHANICAL ENGINEERING													
(Common to ALL Branches)													
(Regulation 2015)													
Dur	Duration: 1:15hrs					Maximum: 30 Marks							
PART A - (6 x 1 = 6 Marks)													
(Answer any six of the following questions)													
1.	Hydrographic surveys deal with the mapping of CO1-)1-R					
	(a) Large water bodies			(b) Heavenly bodies									
	(c) Mountaineous region (d) Canal system						m						
2.	Which of the below is not a preliminary consideration for building a Construction?							CC	01-R				
	(a) Bearing capacity of soil(c) Settlement control			(b) Ground water condition									
				(d) Soil organisms									
3. The foundations are placed below ground level to increase							CO2-R						
	(a) Strength			(b) Workability									
	(c) Stability of structure			(d) All the above									
4.	A solid barrier constructed at a suitable location across a river valley to CO2- impound water is called)2-R					
	(a) Reservoir	(b) Dam	(0	c) Br	idge				((d) R	etair	ing	wall
5.	The following is not	he following is not a component of Thermal power plant						CO3-R)3-R		
	(a) Condenser (b) Cooling tower (c)				(d) Fuel					uel ta	ank		
6.	Which of the following pump is preferred for flood control and irrigation applications?								CC)3-R			
	(a) Centrifugal pump				(c) Axial flows pump								
	(b) Mixed flow pump			(d) Reciprocating pump									

7.	A two stroke cycle engases compared to the for	CO4-R								
	(a) Half	(b) Same	(c) Double	(d) Four times						
8.	The power developed	by a diesel engie is	not increased by	CO4-R						
	(a) higher compression	n ratio	(b) fine atomisation of fuel							
	(c) excess supply of a	excess supply of air (d) suppling air at increa								
9.	One tonne of refrigera	CO5-R								
	(a) 21/kJ/min	(b) 210/kJ/min	(c) 420/kJ/min	(d) 620/kJ	/min					
10.	Air conditioning mean	18			CO5-R					
	(a) Cooling		(b) Heating							
	(c) Dehumidifying		(d) All of these							
PART – B (3 x 8= 24 Marks)										
(Answer any three of the following questions)										
11.	Give the classification of surveys. List the advantages and disadvantages of chain surveying.				(8)					
12.	Discuss différent types of foundation with the help of neat sketches				(8)					
13.	Explain the working principle of steam power plant with neat sketch				(8)					
14.	Describe the principal engine with neat sketch	CO4-U	(8)							
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15. Explain the principle and working of vapour compression refrigeration CO5-U (8) system.