MASTER OF ARCHITECTURE (SUSTAINABLE ARCHITECTURE) (CBCS - 2018 COURSE) M. Arch. (S.A.) Semester-II :WINTER - 2021

SUBJECT: ENERGY SYSTEMS & UTILITIES (UE)

Day	Tuesday 21 -12-2021		Ti W-19790-2021		Ti	ime: _10:00 AM-12:30 PM Max. Marks: 60		
Date					Max. Mark	.S. 00		
N.B. :			<u></u>					
	1) All questions are COMPULSORY .							
	2) Both the sections should be written in SEPARAT					ΓE an	swer books.	
	3) Figures to the right indicate FULL marks.						1	
	4) Assume suitable data and draw figures if necessar							
SECTION-I								
Q.1		Write short	notes on AN	Y TV	VO of the following:			(10)
	a)	Storage of I	Tuel Oil					
	b)	_	sulation Mat	erials				
	c)							
Q.2		Explain in b	orief (ANY 1	(WO) :			(10)
	`	II4	WIID 4	.•				
	a)		ump as WHR device. saving opportunities in steam systems. nance evaluation of boilers.					
	b) c)							
	C)	1 CHOITHAIC	c cvaruation	OI OO	11013.			
Q.3		Answer AN	Y ONE of the	lowing			(10)	
	a)	Stoichiome	etric combustion of fuel oil.					
	b)	Explain in o			Heat pipe	ii)	Heat wheels	
	,	1		,	1 1	,		
SECTION-II								
Q.4		Write short notes on ANY TWO of the following:						(10)
	a)	Motor Char	acteristics					
	b)	Heat Transfer Loops in Refrigeration System.						
	c)	´ <u>-</u>						
Q.5		Explain in brief (ANY TWO):						(10)
(
	a)	What is max	ximum dema	ind co	ntrol?			
	b)	,						
	c)	What are ECBC guidelines for HVAC?						
Q.6		Answer ANY ONE of the following						(10)
	٠,	W/lea4 and 41-	a amanar as	i	mantanitias in fan arret	am a0		
	a) b)				pportunities in fan syst tegies in pumps?	ems?		
	u)	vv nat alt til	. HOW COURT	n sua	regres in pumps:			