Reg. No. :

Question Paper Code: 59713

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Agriculture Engineering

15UAG920 – ENERGY AUDITING AND MANAGEMENT

(Regulation 2015)

Duration: One hour

Maximum: 30Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

(Answer any six of the following questions)

1.	Liquid fuel density is measured by an instrument called						
	(a) Tachometer	(b) Hygrometer	(c) Anemometer	(d) None of the	above		
2.	Trapped heat inside the earth is known as				CO1- R		
	(a) Heat energy	(b) Kinetic energy	(c) Geothermal energy	(d) Thermal energy			
3.	Which instrument i	strument is used to monitor O2, CO in flue gas?					
	(a) Combustion	(b) Power analyzer	(c) Pyrometer	(d) Pyrite			
4.	The judicious and effective use of energy to maximize profits and enhance CO competitive positions". This can be the definition of						
	(a) Energy conserve	ation	(b) Energy management				
	(c) Energy policy		(d) Energy Audit				
5	Desirable boiler we	Desirable boiler water pH should be?					
5.	Desirable boller wa	tier pri should be?			CO3- R		
5.	(a) 5 - 7	•	(c) 9 - 11	(d) None of the			
5. 6.	(a) 5 - 7	•		(d) None of the			
	(a) 5 - 7	(b) 7 - 9		(d) None of the (d) 45 %	above		
	(a) 5 - 7Thermal efficiency(a) 15 %	(b) 7 - 9 of a thermal power pl	ant is of the order of		above		
6.	(a) 5 - 7Thermal efficiency(a) 15 %	(b) 7 - 9of a thermal power pl(b) 20 %	ant is of the order of		above CO3- R CO4- R		
6.	 (a) 5 - 7 Thermal efficiency (a) 15 % Maximum demand (a) kWh 	 (b) 7 - 9 of a thermal power pl (b) 20 % charges are given in (b) kVA 	ant is of the order of (c) 30 %	(d) 45 % (d) All of the ab	above CO3- R CO4- R pove		
6. 7.	 (a) 5 - 7 Thermal efficiency (a) 15 % Maximum demand (a) kWh The ratio of current 	 (b) 7 - 9 of a thermal power pl (b) 20 % charges are given in (b) kVA 	ant is of the order of (c) 30 % (c) kVAr	(d) 45 % (d) All of the ab	above CO3- R CO4- R pove		

9.	Which of the following is not a financial indicator									
	(a) CPM	(b) IRR	(c) NPV	(d) ROI						
10.	Proposed new technologies, process modifications, equipment replacements are the elements of									
	(a) Financing	(b) Contracting	(c) Technical design	(d) Imple	ementation					
	PART - B (3 x 8 = 24 Marks)									
(Answer any three of the following questions)										
11.	Explain Prototype Carbon Fund.					(8)				
12.	Compare 'preliminary energy audit' and 'detailed energy audit'.					a (8)				
13.	Explain various losses in Boiler.				CO3- U	(8)				
14.	Build the energy co	onservation opportu	inities in motors.		CO4- Ana	a (8)				
15.	Summarize the industrial energy auditing and conservation measures.					(8)				