

MAY 2022 - ENDSEM EXAM
B. TECH. (MECHANICAL) (SEMESTER - II)
COURSE NAME: DESIGN OF THERMAL SYSTEM
COURSE CODE: MEUA40181D
(PATTERN 2018)
Marking Scheme

Question No.	Question Description	Marks
Q.1 a	Enlisting different technique	2
	Discussion	2
Q.1 b	Characteristic length	1
	Overall efficiency	2
	Heat Transfer Rate	3
Q2 a	Justification of part 1	2
	Justification of part 2	2
Q2 b	Calculating m	1
	Efficiency	2
	The temperature at the tip	3
Q.3 a	Diagram	2
	Discussion	2
Q.3 b	Gas mass velocity (G)	2
	Reynold number	2
	Heat transfer coefficient	2
Q.4 a	Diagram	2
	Discussion	2
Q.4 b	Gas mass velocity (G)	3
	Pressure drop	3
Q.5 a	Diagram	1
	Discussion	3
Q.5 b	h for inline	2
	h for staggered	2
	h for 5 th tube	2
Q.6 a	Diagram	2
	Discussion	2
Q.6 b	T _{c2}	2
	Heat Transfer Rate	2
	Length of tube	2