

Name.		Printed Pages:01		
Student Admission No.:				
School of Backlog Examination, December 2022 [Programme:] [Semester:]				
Course Title: ENERGY SYSTEM & TECHNOLOGY		Max Marks: 50		
Course Code: BTME 4001		Time:3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
SECTION-A(10 Marks)2Marks each				
1.	DISCUSS THE COMPRESSOR AND ITS APPLICATION.	CO1	K1/K2	2
2.	WRITE THE DIFFERENT FLOW OF COMPRESSORS WITH SUITABLE SCHEMATIC.	CO2	K1/K2	2
3.	DISCUSS THE RE-HEATING POWER CYCLE	CO3	K3/K4	2
4.	DISCUSS THE HYDRAULIC TURBINES	CO4	K3/K4	2
5.	DISCUSS THE WIND ENERGY SYSTEMS	CO5	K4	2
SECTION-B(16 MARKS)				
6.	DISCUSS THE CONSTRUCTION AND WORKING DETAIL OF CF COMPRESSOR	CO1	K3/K4	5
7.	DISCUSS THE CENTRIFUGAL COMPRESSOR WITH SUITABLE SCHEMATIC	CO2	K3/K4	5
8.	ILLUSTRATE THE SUPER-CRITICAL POWER GENERATION SYSTEMS WITH A SUITABLE THERMAL CYCLE DIAGRAM.	CO6	K6	6
SECTION-C (24 MARKS)8MARKS EACH				
9.	ILLUSTRATE THE REGENERATION-REHEATING RANINE CYCLE WITH SUITABLE THERMAODYAMIC CYCLE DIAGRAM, PLANT DIAGRAM, AND ITS EFFICIENCY	CO3	K4/K5	8
10.	CLASSIFY THE HYDRAULIC TURBINES IN DIFFERENT ASPECTS.	CO4	K4/K5	8
11.	ILLUSTRATE THE SOLAR-REFRIGERATION SYSTEM.	CO5	K5/K6	8