## SANT GADGE BABA AMRAVATI UNIVERSITY BACHELOR OF ENGINEERING SEMESTER VII (CGS) EXAMINATION OF S-2020

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## H.V.P.Mandal's College of Engineering & Technology, Amravati Department of Mechanical Engineering

Academic Session: 2019-20 Semesters: VII
Unit- I ,II ,III, IV ,V,VI Date: 30/10/2020
Subject Name: Energy Conversion-II Subject Code:

**Max Marks:** 

Note: Solve any 2 Questions out of 4 Question.
All question Carry equal marks

	Ques 01	
a.	List out the applications of compressed air.	(03M)
b.	Briefly describe about 'rotary compressor'?	(03M)
c.	What Will Be The Relative Humidity At Saturation Point?	(01M)
d	What are the merits and demerits of gas turbine plant	(01M)
e.	How Energy Is Generated In Nuclear Power Plant?	(01M)
f.	What do you mean by M.H.D. generator	(01M)
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<u>Ques 02</u>		
a.	Define the term isothermal compression efficiency.	(03M)
b.	What are the limitations of a centrifugal compressor operation?	(03M)
c.	Difference between the Refrigeration and Heat Pump?	(01M)
d	Describe the operation of the gas turbine. What are the principal	(01M)
	factors affecting its power and efficiency?	
e.	What Are The Particles Used In Nuclear Fission?	(01M)
f.	What are different renewable source of energy	(01M)
Ques 03		
a.	Define volumetric efficiency of an air compressor and write the	(03M)
	expression for volumetric efficiency.	
b.	What is stagnation temperature?	(03M)
c.	Classify The Different Refrigeration Systems	(01M)
d	What is the efficiency of a gas turbine plant	(01M)
e.	What Is Chain Reaction And How It Is Controlled In Nuclear Reactor?	(01M)
f.	What are the different types of wind mill.	(01M)
Ques 04		
a.	Why clearance is necessary and what is the effect on performance of	(03M)
	reciprocating compressor.	
b.	Define the term work done by impeller with its equation.	(03M)
c.	What Is The Unit Of Refrigeration?	(01M)
d	What are the stages of gas turbine plant	(01M)
e.	What is Candu reactor in a nuclear reactor	(01M)
f.	What is fuel cells	(01M)