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**Tatyasaheb Kore Institute of Engineering & Technology, Warananagar
(An Autonomous Institute)**

F.Y. B. Tech (Sem-I), In Semester Examination –II, October 2023

Basic Mechanical Engineering

Day and Date: Tuesday, 31st October 2023

Marks: 30

Time : 9:15 am to 10:15 am

**Instructions: i) Use of non programmable calculator is allowed.
ii) Figures to the right indicate full marks.**

Q.1	Attempt any Three from the following questions.	Unit No	CO	
a)	Define 1) Refrigeration 2) Refrigerant. 3) Latent heat 4) Ton of refrigeration 5) Humidity	3	3	5
b)	Write desirable properties of good refrigerants.	3	3	5
c)	Explain with sketch working of vapour absorption refrigeration system	3	3	5
d)	Differentiate between VCRS and VARS	3	3	5
Q.2	Attempt any Three from the following questions.			
a)	Explain with sketch working of Steam power plant	4	4	5
b)	Explain with sketch working of PV cells	4	4	5
c)	Explain with sketch working of Wind Power plant	4	4	5
d)	Differentiate between Renewable and non-renewable energy sources	4	4	5