

Name:	 UPES <small>UNIVERSITY OF TOMORROW</small>
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: Water Resources & Hydro-Power Mgt.
Program: BBA Green Energy & Sustainability

Semester: II
Time : 03 hrs.

Course Code: OGET 2006

Max. Marks: 100

Instructions: Set 1

SECTION A
10Qx2M=20Marks

S. No.	Question	Marks	CO
Q 1	Complete the Abbreviations a. UJVNL b. NHPC c. CWC d. CEA	2	CO1
Q2.	Name two states having highest Hydro Power resources in India.	2	CO1
Q3	Differentiate among Micro, Mini & Small Hydro Power Plant.	2	CO1
Q4	Why Hydro Power Plants are called as multi-purpose projects.	2	CO1
Q5	What is HPO proposed in India? Explain.	2	CO1
Q6	Who is current Chairman of NHPC and UJVNL respectively? Name.	2	CO1
Q7	How much is Installed Hydro-Power Generation capacity in India at present including Small Hydro?	2	CO1
Q8	Name Minister for Power and MNRE in India.	2	CO1
Q9	1 MWhr is equal to how many Units of Electricity? What is India potential for Hydro-Power Plants?	2	CO1
Q10	How much is overall Installed Generation Capacity in India at present? What is expected target for 2030?	2	CO1

SECTION B
4Qx5M= 20 Marks

Q 11	What are Advantages and Disadvantages of Hydro Power Plants?	5	CO2
Q 12	What are the characteristics of Renewable Energy? Explain with five examples.	5	CO2
Q 13	What do you mean by Sustainability and Sustainable Development? Explain.	5	CO2

Q 14	Explain water resources in India.	5	CO2
SECTION-C 3Qx10M=30 Marks			
Q 15	How Hydro Power Plant works? Explain it with a neat diagram.	10	CO3
Q 16	Critically review after stating Hydro-Power scenario in India at present with suggestions for betterment in future.	10	CO3
Q 17	What are different types of Hydro Electric Power Plants or Nuclear Power Plants with their relative applications and benefits? Analyze.	10	CO3
SECTION-D 2Qx15M= 30 Marks			
Q 18	“Uttarakhand should go for large scale Hydro-power” - Critically analyze this statement with your valuable suggestions for its implementation.	15	CO4
Q 19.	Calculate tariff for a 500 MW Hydro Power Plant in your state assuming all data as per SERC norms and regulation.	15	CO4