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| **Name:**<br>**Enrolment No:** | |

**UPES**

**End Semester Examination, May 2024**

**Course:** Water Resources & Hydro-Power Mgt. **Semester: II**

**Program: BBA Green Energy & Sustainability** **Time : 03 hrs.**

**Course Code: OGET 2006** **Max. Marks: 100**

**Instructions:**

**SECTION A**

**10Qx2M=20Marks**

| S. No. | | Marks | CO |
|---|---|---|---|
| Q 1 | Complete any two Abbreviations<br>a. UJVNL<br>b. NHPC<br>c. CWC<br>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**<br>**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** |

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| Q 14 | Explain water resources in India. | **5** | **CO2** |
| **SECTION-C**<br>**3Qx10M=30 Marks** | | | |
| Q 15 | How Hydro Power Plant works? Explain it with a neat diagram.<br><br>OR<br><br>Critically evaluate National Hydrogen Mission and National Green Hydrogen Policy. | **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**<br>**2Qx15M= 30 Marks** | | | |
| Q 18 | "Uttrakhand 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** |