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| **AISSMS COLLEGE OF ENGINEERING PUNE**  **DEPARTMENT OF CIVIL ENGINEERING** |
| **UNIT TEST- 1 A.Y. 2023-24 TERM-II** |

**Class: BE (Civil Engineering) Semester: VII**

**Subject: Coastal Engineering Pattern: BE (2019 Course)**

**Maximum Marks: 30 Duration: 3:00 am to 4:00 am**

**Time: 3:00 PM Date:10/10/2023**

*Instruction for the students:*

1. *Assume suitable data if required*
2. *Figures to the right indicate full marks.*
3. *Use of a programmable calculator is allowed.*
4. *Write all necessary steps.*
5. *Answer Q.1 OR Q.2, Q.3 OR Q.4*

**Course Outcome Statements:**

**CO 3:- Understand basic characteristics of tides, tide producing forces, dynamic theory of tides.**

**CO 4:- Understand coastal process of erosion/accretion due to waves, bed forms, long shore transport (Littoral drift) and estimation of wave induced sediment quantity.**

**Taxonomy Levels:**

**I-Remember, II-Understand, III-Apply, IV-Analyze, V-Evaluate, VI- Create**

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| **Q. No** | **Questions** | **Marks** | **Taxonomy Level** |
| **Q.1** | **(a) Explain Process of generation of tide** | **[5]** | **1** |
| **(b) Describe various types of tides** | **[5]** | **1** |
|  | **(c) Illustrate with sketch tidal power** | **[5]** | **3** |
| **OR** | | |  |
| **Q.2** | **(a) Explain storm surges** | **[5]** | **2** |
| **(b) Explain Tide producing forces.** | **[5]** | **1** |
|  | **(c) Explain with sketch tides in rivers and estuaries** | **[5]** | **1** |
| **Q.3** | **(a) Explain effect of Tides on coast** | **[5]** | **2** |
| **(b) Explain Coastal process** | **[5]** | **1** |
|  | **(c) Explain bed forms, long shore transport** | **[5]** | **1** |
| **OR** | | |  |
| **Q.4** | **(a) Explain coastal structure** | **[5]** | **1** |
| **(b) Explain Effect of construction of coastal structures on stability of shoreline / beaches** | **[5]** | **1** |
|  | **(c) Explain types of sediment.** | **[5]** | **1** |

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