



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : CE(HS)302 Introduction to Civil Engineering

UPID : 003505

CS/B.TECH(N)/ODD/SEM-3/3505/2022-2023/1203

Time Allotted : 3 Hours

Full Marks :70

The Figures in the margin indicate full marks.
Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (i) The major use of high density concrete in ----- industry
- (ii) What do you mean by GPS?
- (iii) What is the minimum PPE requirements for safety at construction site?
- (iv) The Compound pulley was invented by -----
- (v) The crushing strength of good brick is not less than -----
- (vi) Pile foundation is considered as a ----- foundation
- (vii) A ----- is a very useful equipment and it can be used for construction work like to clear the site of work to make the land level .
- (viii) For which type of fluid flow Bernoulli's equation cannot be applied ?
- (ix) What do you mean by Penstocks ?
- (x) What are the conditions for the selection of repairing materials?
- (xi) The construction of ----- might be considered the first example of large structure constructions
- (xii) Light weight mortars are those which have bulk density less than -----

Group-B (Short Answer Type Question)

Answer any three of the following

[5 x 3 = 15]

2. Describe in brief about the different branches of civil Engg. [5]
3. What are the features of LEED rating? [5]
4. What are the characteristics of good bricks? [5]
5. What are the different types of fluid based on viscosity? [5]
6. How experimental stresses are classified ? [5]

Group-C (Long Answer Type Question)

Answer any three of the following

[15 x 3 = 45]

7. (a) What are the roles and responsibilities of architect in construction? [8]
(b) What are the civil engg. aspects of a smart city? [7]
8. (a) What do you mean by waste water treatment? [5]
(b) Describe the process of waste water treatment step by step. [10]
9. (a) What are the properties of first class, second class and third-class bricks? [9]
(b) What are the characteristics of a good mortar? [6]
10. (a) What are the different methods of underground construction? [5]
(b) What are the requirements of a good water supply distribution system? [5]
(c) Write a short note on multi-purpose reservoir project. [5]
11. (a) What are the different types of bridges? [5]
(b) Give a brief detail about them. [10]