



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) Which one of the followings causes global warming?
i) carbon dioxide, ii) Oxygen, iii) Nitrogen, iv) Hydrogen.
- (ii) The industrial revolution led to an increase in _____.
i) Population in city, ii) Import in business, iii) Free time activity, iv) none of the above.
- (iii) Disinfection of water in our country is mainly done by _____.
a) Oxygenation b) Hydration c) Chlorination d) Filtration
- (iv) Who measures Global warming rates?
i) Astrologer, ii) Physicists, iii) Philosopher iv) Climatologist
- (v) Carbon footprint can be measured by _____.
- (vi) How many types of ecological pyramids are there?
- (vii) Urbanisation and occupation of river banks and flood plains lead to periodic exposure to _____.
- (viii) Disinfection of water in our country is mainly done by _____.
- (ix) For a gold LEED certification, how many points are required?
- (x) Wastewater can become septic by the loss of _____.
a) Dissolved oxygen content b) Carbon content c) Organic compounds d) Water content
- (xi) The accumulation of water on the outer surface of the concrete is called _____.
- (xii) Portion of dam in contact with ground at downstream side is called _____.

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

2. What are global challenges in Civil Engineering? [5]
3. What do you mean by sustainable development? Describe in detail. [5]
4. What is Smart city? What are the six essential pillars of a smart city? [5]
5. What are structural marvels? Explain with an example. [5]
6. Describe briefly Human development Index. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

7. (a) What are the role and ways of transportation system? [5]
(b) What is the futuristic vision of Civil Engineering in shaping the world? [10]
8. (a) What are the alternative energy sources? [5]
(b) Explain any three of them. [10]
9. (a) What was industrial revolution? [5]
(b) Describe first and second industrial revolution. [10]
10. (a) What do you mean by Facility Management ? [8]

- ✓(b) What are the essentials of facility management ? [7]
11. (a) Write short notes on global warming. How global warming is measured and controlled? [7]
- (b) Describe ecological footprint of India. [8]

*** END OF PAPER ***

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