

Government of India
Central Public Works Department
Departmental Examination for Assistant Executive Engineers (Civil)

Civil Engineering Paper – I (December 2022)
(Without Books)

Instructions: Attempt all questions. Marks have been indicated against each question.

Maximum Marks -100

Time: 3 Hours

1. Draft Analysis of Rates for

(10 Marks)

(i) Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

(Assume rates and coefficients. Only procedure will be checked for evaluation of Marks)

2. What is the time period prescribed in normal circumstances in CPWD Specification for removal of formwork where various types of cements are used?

(10 Marks)

3. Describe how these tests are carried out, frequency of testing and acceptance criteria

(2 X 5 Marks)

- (i) Efflorescence test of Bricks
- (ii) Silt content of sand

4. Explain the following terms with help of suitable sketch

(4 X 5 Marks)

- (i) Water Seal
- (ii) Rain Water Harvesting
- (iii) Holder Bat Clamps
- (iv) Weep Hole

5. Describe specification for item of Wall Painting on new surface With Plastic Emulsion Paint.

(10 Marks)

6. Write short notes on

(10 X 2 Marks)

- (i) Raking
- (ii) Bond Stone
- (iii) Marucona
- (iv) Spandrel
- (v) Air Valve
- (vi) Tack Coat
- (vii) Caulking
- (viii) Union
- (ix) Mullion
- (x) Pebble dash finish

7. What is Primavera Network management tool and how it is used in Projects.

(10 Marks)

8. Briefly explain about classification of buildings as per National Building Code of India (NBC) 2016.

(10 Marks)