

# SSC JE PRE 2021

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JUNE 2022



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# CIVIL ENGINEERING



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**CIVIL ENGINEERING**

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**Q : 1) As per Indian standard code 1077, the burnt building bricks having compressive strength less than \_\_\_\_\_ N/mm<sup>2</sup> are known as common burnt clay bricks**

**A** 3.5

**B** 12.5

**C** 30

**D** 40

**Q : 2) Maximum slenderness ratio as per Indian standard for an unreinforced load bearing wall (using Portland cement or Portland cement mortar) is**

**A** 13

**B** 20

**C** 27

**D** 35

**Q : 3) The test conducted for the calculation of basic compressive stress of masonry is:**

- A** Vibration test
- B** Prism test
- C** CBR test
- D** Slump cone test

**Q : 4) Cement used for railway sleepers is designated as**

**A** 40-S

**B** 53-S

**C** 46-S

**D** 48-S



**Q : 5) The artificial seasoning method that causes timber to become brittle and easy to break is**

**A** Boiling

**B** Chemical seasoning

**C** Electrical seasoning

**D** Kiln seasoning

**Q : 6) A statistically indeterminate structure is the one which**

- A** Cannot be analysed using equations of statics alone
- B** Cannot be analysed at all
- C** Is not stable for general loading
- D** Can be analysed with the equations of statics along

**Q : 7) The ratio of maximum deflection to maximum flexural stress in a simple supported beam of span  $l$  and depth  $d$  subjected to a concentrated load at mid-span is**

**A**

$$\frac{l^2}{(6Ed)}$$

**B**

$$\frac{l^2}{(8Ed)}$$

**C**

$$\frac{l^2}{(16Ed)}$$

**D**

$$\frac{l^2}{(60Ed)}$$



**Q : 8) The influence line for deflection at the free end of cantilever is**

**A**

A triangle with zero ordinate at fixed end and maximum ordinate at free end

**B**

A constant line

**C**

A cubic parabola with zero ordinate at fixed end and maximum ordinate at free end

**D**

A parabola with zero ordinate at fixed end and maximum ordinate at free end

**Q : 9) A temperature rise in a two hinged symmetric and parabolic arched rib causes**

- A** A uniform bending moment in the rib
- B** No bending moment in the rib
- C** A maximum bending moment at the crown of the arch
- D** A minimum bending moment at the crown of the arch

**Q : 10) A three-span continuous beam is fixed at the ends and supported by unyielding roller supports in between. What is the size of the stiffness matrix?**

**A**  $2 \times 2$

**B**  $3 \times 3$

**C**  $1 \times 1$

**D**  $4 \times 4$



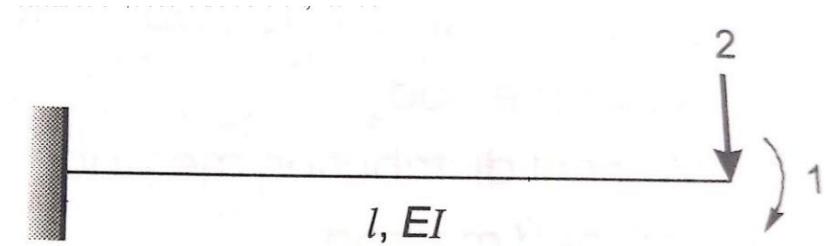
**Q : 11) For the structure shown, the elements of the flexibility matrix are**

**A**  $f_{11} = \frac{l}{EI}; f_{21} = \frac{l^2}{2EI}; f_{12} = \frac{l^2}{2EI}; f_{22} = \frac{l^2}{3EI}$

**B**  $f_{11} = \frac{l^3}{3EI}; f_{21} = \frac{l^2}{2EI}; f_{12} = \frac{l^2}{2EI}; f_{22} = \frac{l}{EI}$

**C**  $f_{11} = \frac{l}{EI}; f_{21} = \frac{l^2}{2EI}; f_{12} = \frac{l^2}{EI}; f_{22} = \frac{l^3}{3EI}$

**D**  $f_{11} = \frac{l}{EI}; f_{21} = \frac{l^2}{2EI}; f_{12} = \frac{l^2}{2EI}; f_{22} = \frac{l^3}{4EI}$



**Q : 12) The angles of dispersion of a concentrated load on the flange to the web plate of a steel beam is**

**A** 70 degree with horizontal

**B** 60 degree with vertical

**C** 45 degrees with vertical

**D** 30 degrees with vertical

**Q : 13) The eddy's theorem is valid for**

- A** Vertical loads only
- B** Horizontal loads only
- C** Dynamic loads only
- D** All loads



**Q : 14) As per IS-875, where access is not provided except for maintenance, live load on roods, while designing a truss, in respect of its plan area is adopted as**

**A** 100 N/sq.m

**B** 400 N/sq.m

**C** 750 N/sq.m

**D** 1500 N/sq.m

**Q : 15) An electric pole 5 m high is fixed into the foundation. It carries a wire at the top and is free to move sideways. The effective length of the pole is**

**A** 3.25 m

**B** 4 m

**C** 5 m

**D** 10 m

## Q : 16) In Pagenaud's coefficient method for the analysis of an interior panel of a T-beam bridge

A

Notation for coefficient as  $\alpha x4$  and  $\alpha y4$  includes suffix 4 since panel is continues on all the 4 edges

B

Poisson's ratio of concrete has no contribution

C

Applicability is restricted, to the case when wheel load is centrally placed

D

Dispersion of load is considered through wearing coat only

**Q : 17) As per IS-800, the minimum pitch of bolts in a row of bolts is recommended as the diameter of the bolt times**

**A**

2

**B**

2.5

**C**

3

**D**

4

**Q : 18) Loss of stress with time at constant strain in steel is called**

**A** Relaxation

**B** Creep

**C** Shrinkage

**D** Ductility



**Q : 19) In a footing, it is usual to assume that the maximum value of transverse bending will occur at a distance, equal to (measured from the face of the column)**

- A** Half the effective depth
- B** Effective depth
- C** Twice the effective depth
- D** None of the given answers

**Q : 20) The minimum and maximum % of reinforcement in RCC short column are**

**A** 0.8 and 6

**B** 6 and 0.8

**C** 0.8 and 4

**D** 4 and 6

**Q : 21) The neutral axis of the reinforced beam passes through**

- A** Centre of gravity of the concrete section
- B** Meta-centre of the concrete section
- C** Centroid of the transformed section
- D** Centroid of the concrete section

**Q : 22) In a slab, the transverse reinforcement is provided at \_\_\_\_\_ to the span of the slab.**

**A** 45 degrees

**B** 60 degrees

**C** 75 degrees

**D** Right angle

**Q : 23) What type of stresses are artificially induced by prestressed concrete in a structure before it is loaded?**

- A** Tensile
- B** Torsional
- C** Shear
- D** Compressive



**A : 24) Drops are provided in flat slab to resist primarily**

**A** Bending moment

**B** Trust

**C** Shear

**D** Torsion

**Q : 25) Total amount of shrinkage strain for a pretensioned member is**

**A**  $3 \times 10^{-4}$

**B**  $3 \times 10^{-5}$

**C**  $3 \times 10^{-6}$

**D**  $3 \times 10^{-7}$

**Q : 26) Fulkerson's rule stands for**

- A** Planning the events
- B** Scheduling the events
- C** Numbering the events
- D** Controlling the events

Q : 27) If the values of  $t_0$ ,  $t_l$ ,  $t_p$ , are 8, 12 and 18 the values of  $t_e$  is

A 12.1

B 12.3

C 12.6

D 13

**Q : 28) If the values of  $t_o$ ,  $t_p$  of an activity are 4 and 15, what is the variance of the activity?**

**A** 3.22

**B** 3.36

**C** 3.87

**D** 3.92



**Q : 29) The difference between the total float and free float is known as**

- A** Free float
- B** Total float
- C** Independent float
- D** Interfering float

**Q : 30) The difference between the latest allowable time and earliest expected time of an event is known as**

**A** Float

**B** Normal deviate

**C** Free float

**D** Slack

**Q : 31) With the increase of time, the direct costs of the project**

- A** Increase
- B** Decrease
- C** Remain constant
- D** Decrease and then increase

**Q : 32) Resource smoothing will be adopted when**

**A** Resources are unlimited

**B** Resources are limited

**C** Resources are constant

**D** In all the cases

**Q : 33) For irrigation, water having SAR above 26**

- A** Can be used for all soils and for all crops
- B** Can be used for all soils except fine textured soils
- C** Can be used for all soils if some precautions are taken
- D** Is not used for any irrigation



**Q : 34) As per IS 4987,  $N = \left(\frac{C_r}{P}\right)^2$  where N = optimum number of rain gauge in a basin,  $C_v$  = coefficient of variation of the rainfall values of the existing rain gauge stations, then P is**

- A** Highest discharge at the basin outlet
- B** Annual average of the basin
- C** Desired degree of percentage error in the estimate of the basin mean rainfall.
- D** Highest rainfall recorded in the basin

**Q : 35) Defective air circulation in plant's root zone is an effect of**

- A** Mixed cropping
- B** Fall in soil moisture content
- C** Water logging
- D** High temperatures



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