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JKSSB JE

Previous Year Paper
Civil (Jal Shakti) 06 Dec
2022 Shift 2



JKSSB 06th Dec 2022 Shift 2
(Candidate Response Sheet)

Roll Number

**Name of the
Candidate**

Examination Name JKSSB Junior Civil Engineer Set 04

Exam Date & Time 06-12-2022 02:30:00

Subject : JCE04_JKSSB_NOV22

Question ID:- 33

___ is the property of water which exist in the surface film of water tending to contract the contained volume into a form having a minimum superficial area possible.

Options:-

- Capillary rise, Option ID :- 129,
- Capillary tension, Option ID :- 130,
- Capillary potential, Option ID :- 131,
- Surface tension, Option ID :- 132,

Answer Given:- Capillary potential, Option ID : -131

Correct Answer :- Surface tension Option ID :- 132

Question ID:- 110

In India, for broad gauge track, the maximum height of a loaded goods wagon is fixed as:

Options:-

- 3.4 m, Option ID :- 437,
- 4.72 m, Option ID :- 438,
- 5.32 m, Option ID :- 439,
- 5.87 m, Option ID :- 440,

Answer Given:- 5.32 m, Option ID : -439

Correct Answer :- 4.72 m Option ID :- 438

Question ID:- 78

Which of the following is not commonly used as a filter material in the treatment of water?

Options:-

- Garnet sand, Option ID :- 309,
- Crushed rock, Option ID :- 310,
- Sand, Option ID :- 311,
- Anthracite, Option ID :- 312,

Answer Given:- Anthracite, Option ID : -312

Correct Answer :- Crushed rock Option ID :- 310

Question ID:- 47

Which of the following are NOT the methods for finding the slope and deflection of beams:

- a. Double integration method

- c. Macaulay's method
- d. Conjugate beam method
- e. Unit load method

Options:-

- a, b, c and d only, Option ID :- 185,
- b, c and d only, Option ID :- 186,
- Only e, Option ID :- 187,
- Only a, Option ID :- 188,

Answer Given:- Only e, Option ID : -187

Correct Answer :- Only e Option ID :- 187

Question ID:- 20

_____ is that load which has a 95 % probability of not being exceeded during the life of the structure.

Options:-

- Dead load, Option ID :- 77,
- Snow load, Option ID :- 78,
- Live load, Option ID :- 79,
- Characteristic load, Option ID :- 80,

Answer Given:- Characteristic load, Option ID : -80

Correct Answer :- Characteristic load Option ID :- 80

Question ID:- 104

The equilibrium super – elevation is given by which of the following formula?

Options:-

- $\frac{v^2}{R}$,
Option ID :- 413,

- $\frac{v^2}{g.R}$,
Option ID :- 414,

- $\frac{v^2}{127R}$,
Option ID :- 415,

- $\frac{v^2}{15R}$,
Option ID :- 416,

Answer Given:- $\frac{v^2}{127R}$, Option ID : -415

Correct Answer :- $\frac{v^2}{g.R}$ Option ID :- 414

Question ID:- 13

_____ should be used in concrete for aggregates.

Options:-

- Wet condition, Option ID :- 49,

- Saturated Surface dry condition, Option ID :- 50,
- Moist surface condition, Option ID :- 51,
- None of these, Option ID :- 52,

Answer Given:- Moist surface condition, Option ID : -51

Correct Answer :- Saturated Surface dry condition Option ID :- 50

Question ID:- 108

The value of group index of a soil varies from:

Options:-

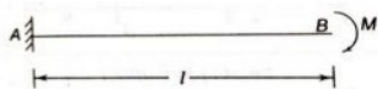
- 0 to 10, Option ID :- 429,
- 20 to 30, Option ID :- 430,
- 30 to 40, Option ID :- 431,
- 0 to 20, Option ID :- 432,

Answer Given:- 0 to 20, Option ID : -432

Correct Answer :- 0 to 20 Option ID :- 432

Question ID:- 42

What is the Shear force for given figure, of a cantilever beam and loading?



Options:-

- -M, Option ID :- 165,
- 0, Option ID :- 166,
- +M, Option ID :- 167,
- None of these, Option ID :- 168,

Answer Given:- 0, Option ID : -166

Correct Answer :- 0 Option ID :- 166

Question ID:- 7

In India what is the problem for artificial channels?

Options:-

- Formation of Depressions, Option ID :- 25,
- Formation of Alluvial Soil, Option ID :- 26,
- Untimely Rains, Option ID :- 27,
- Improper Usage of Channels, Option ID :- 28,

Answer Given:- Formation of Alluvial Soil, Option ID : -26

Correct Answer :- Formation of Alluvial Soil Option ID :- 26

Question ID:- 23

Which type of slabs are commonly used in single storey buildings?

Options:-

- Slabs simply supported on the four edges, with corners not held down and carrying uniformly distributed load., Option ID :- 89,
- Slabs with edges fixed or continuous and carrying uniformly distributed load., Option ID :- 90,
- Slabs simply supported on the four edges, with corners held down and carrying uniformly distributed load., Option ID :- 91,

▪ None of these, Option ID :- 92,

Answer Given:- Slabs simply supported on the four edges, with corners not held down and carrying uniformly distributed load., Option ID : -89

Correct Answer :- Slabs simply supported on the four edges, with corners not held down and carrying uniformly distributed load. Option ID :- 89

Question ID:- 73

The minimum furrow grade to assure surface drainage is:

Options:-

▪ 0.09%, Option ID :- 289,

▪ 0.02%, Option ID :- 290,

▪ 0.07%, Option ID :- 291,

▪ 0.05%, Option ID :- 292,

Answer Given:- 0.02%, Option ID : -290

Correct Answer :- 0.02% Option ID :- 290

Question ID:- 65

Among of the following Which is the good quality of a irrigation method ?

Options:-

▪ Increased Yield, Option ID :- 257,

▪ Drainage Troubles, Option ID :- 258,

▪ Leached Fertilizers, Option ID :- 259,

▪ Soil Erosion, Option ID :- 260,

Answer Given:- Increased Yield, Option ID : -257

Correct Answer :- Increased Yield Option ID :- 257

Question ID:- 117

According to railway code formula, the length of transition curve is equal to:

Options:-

▪ $1.4 \times \sqrt{R}$, Option ID :- 465,

▪ $2.4 \times \sqrt{R}$, Option ID :- 466,

▪ $3.4 \times \sqrt{R}$, Option ID :- 467,

▪ $4.4 \times \sqrt{R}$, Option ID :- 468,

Answer Given:- $3.4 \times \sqrt{R}$, Option ID : -467

Correct Answer :- $4.4 \times \sqrt{R}$ Option ID :- 468

Question ID:- 39

What is the Poisson's ratio?

Options:-

▪ Ratio of longitudinal strain to lateral strain, Option ID :- 153,

▪ Ratio of lateral strain to longitudinal strain, Option ID :- 154,

▪ Ratio of tangential strain to compressive strain, Option ID :- 155,

▪ Ratio of compressive strain to tangential strain, Option ID :- 156,

Answer Given:- Ratio of lateral strain to longitudinal strain, Option ID : -154

Correct Answer :- Ratio of lateral strain to longitudinal strain Option ID :- 154

Question ID:- 77

Zero hardness of water is achieved by

Options:-

- using lime soda process, Option ID :- 305,
- excess lime treatment, Option ID :- 306,
- ion exchange method, Option ID :- 307,
- using excess alum dosage, Option ID :- 308,

Answer Given:- ion exchange method, Option ID : -307

Correct Answer :- using lime soda process Option ID :- 305

Question ID:- 61

If Reynolds number is more than 2000, then the flow is called

Options:-

- Turbulent, Option ID :- 241,
- Transitional, Option ID :- 242,
- Laminar, Option ID :- 243,
- None of these, Option ID :- 244,

Answer Given:- Transitional, Option ID : -242

Correct Answer :- Turbulent Option ID :- 241

Question ID:- 100

The central portion of a road for high speed vehicle is known as:

Options:-

- Express way , Option ID :- 397,
- Highway , Option ID :- 398,
- Urban road , Option ID :- 399,
- Semi-urban road , Option ID :- 400,

Answer Given:- Highway , Option ID : -398

Correct Answer :- Express way Option ID :- 397

Question ID:- 62

Which of the following are the classifications of centrifugal pumps?

Options:-

- Working heads, Option ID :- 245,
- Specific speed, Option ID :- 246,
- Disposition of shaft, Option ID :- 247,
- All of these, Option ID :- 248,

Answer Given:- Working heads, Option ID : -245

Correct Answer :- All of these Option ID :- 248

Question ID:- 91

A bar chart is drawn for

Options:-

- time versus activity, Option ID :- 361,
- activity versus resources, Option ID :- 362,
- resources versus progress, Option ID :- 363,
- progress versus time, Option ID :- 364,

Answer Given:- time versus activity, Option ID : -361

Correct Answer :- time versus activity Option ID :- 361

Question ID:- 92

The earliest method used for planning of projects was

Options:-

- CPM , Option ID :- 365,
- PERT , Option ID :- 366,
- Bar chart , Option ID :- 367,
- Milestone chart , Option ID :- 368,

Answer Given:- Bar chart , Option ID : -367

Correct Answer :- Bar chart Option ID :- 367

Question ID:- 11

Minimum period before striking formwork in vertical face of columns and beams are

Options:-

- 30 minutes, Option ID :- 41,
- 10 hrs, Option ID :- 42,
- 16 hrs, Option ID :- 43,
- 3 days, Option ID :- 44,

Answer Given:- 16 hrs, Option ID : -43

Correct Answer :- 16 hrs Option ID :- 43

Question ID:- 94

PERT requires

Options:-

- single time estimate, Option ID :- 373,
- double time estimate, Option ID :- 374,
- triple time estimate, Option ID :- 375,
- none of the given options, Option ID :- 376,

Answer Given:- double time estimate, Option ID : -374

Correct Answer :- triple time estimate Option ID :- 375

Question ID:- 121

Which of the following Indian standard codes provides conservatively imposed loads for buildings and structures.

Options:-

- IS 875 (part 2)-1987, Option ID :- 481,
- IS 875 (part 1)-1987, Option ID :- 482,
- IS 875 (part 3)-1987, Option ID :- 483,
- IS 875 (part 4)-1987, Option ID :- 484,

Answer Given:- IS 875 (part 4)-1987, Option ID : -484

Correct Answer :- IS 875 (part 2)-1987 Option ID :- 481

Question ID:- 85

In construction work, the controlling function aims at:

Options:-

- keeping a watch over the physical progress of each activity of the work, Option ID :- 337,

- controlling the expenditure on each item of work, Option ID :- 338,
- controlling the use of machines and materials, Option ID :- 339,
- all of the given options, Option ID :- 340,

Answer Given:- keeping a watch over the physical progress of each activity of the work, Option ID : -337

Correct Answer :- all of the given options Option ID :- 340

Question ID:- 66

The element that causes both intermittent and ongoing waterlogging is

Options:-

- Submergence due to Floods, Option ID :- 261,
- Impervious Obstruction, Option ID :- 262,
- Flat Topography, Option ID :- 263,
- Excessive Rains, Option ID :- 264,

Answer Given:- Submergence due to Floods, Option ID : -261

Correct Answer :- Excessive Rains Option ID :- 264

Question ID:- 55

What is the SI unit of specific gravity

Options:-

- Kg/m³, Option ID :- 217,
- kN/m³, Option ID :- 218,
- m³/kg, Option ID :- 219,
- No units, Option ID :- 220,

Answer Given:- No units, Option ID : -220

Correct Answer :- No units Option ID :- 220

Question ID:- 76

Which of the following statement(s) is/are correct for pyrolysis?

Options:-

- It is a thermal decomposition, Option ID :- 301,
- It is carried out in the presence of free oxygen, Option ID :- 302,
- Typically, temperature ranges from 50⁰C to 100⁰C, Option ID :- 303,
- All of the given options, Option ID :- 304,

Answer Given:- It is a thermal decomposition, Option ID : -301

Correct Answer :- It is a thermal decomposition Option ID :- 301

Question ID:- 18

According to IS 456-1978, for footing on piles, the thickness at the edge shall be not less than_____ above the tops of piles.

Options:-

- 300 mm (30cm), Option ID :- 69,
- 150 mm (15cm), Option ID :- 70,
- 100 mm (10cm), Option ID :- 71,
- 50 mm (5cm), Option ID :- 72,

Answer Given:- 150 mm (15cm), Option ID : -70

Correct Answer :- 300 mm (30cm) Option ID :- 69

Question ID:- 43

The theory of pure bending can be expressed by _____?

Options:-

- Bending Movement Equation, Option ID :- 169,
- Castigliano's Theorem, Option ID :- 170,
- Bernoulli's Equation, Option ID :- 171,
- Lamé's Theory, Option ID :- 172,

Answer Given:- Bending Movement Equation, Option ID : -169

Correct Answer :- Bernoulli's Equation Option ID :- 171

Question ID:- 67

How many types of rain gauges?

Options:-

- 4, Option ID :- 265,
- 2, Option ID :- 266,
- 5, Option ID :- 267,
- 3, Option ID :- 268,

Answer Given:- 3, Option ID : -268

Correct Answer :- 2 Option ID :- 266

Question ID:- 54

The ratio of the actual discharge from an orifice to the theoretical discharge from the orifice, is known as

Options:-

- Co-efficient of discharge, C_d , Option ID :- 213,
- Co-efficient of contraction, C_c , Option ID :- 214,
- Co-efficient of velocity, C_v , Option ID :- 215,
- None of these, Option ID :- 216,

Answer Given:- Co-efficient of contraction, C_c , Option ID : -214

Correct Answer :- Co-efficient of discharge, C_d Option ID :- 213

Question ID:- 26

Indian standard specifies _____ as the specific temperature for reporting the specific gravity

Options:-

- 28°C , Option ID :- 101,
- 25°C , Option ID :- 102,
- 26°C , Option ID :- 103,
- 27°C , Option ID :- 104,

Answer Given:- 28°C , Option ID : -101

Correct Answer :- 27°C Option ID :- 104

Question ID:- 86

The construction of belongs to industrial construction.

Options:-

- transit sheds, Option ID :- 341,

- tunnels, Option ID :- 342,
 - dams, Option ID :- 343,
 - chemicals plants, Option ID :- 344,
- Answer Given:- chemicals plants, Option ID : -344**
Correct Answer :- chemicals plants Option ID :- 344

Question ID:- 83

What will be the resultant of two noise levels of 81 dB and 90 dB generated by two independent sources?

Options:-

- ~96 dB, Option ID :- 329,
 - ~91 dB, Option ID :- 330,
 - ~98 dB, Option ID :- 331,
 - ~118 dB, Option ID :- 332,
- Answer Given:- ~96 dB, Option ID : -329**
Correct Answer :- ~91 dB Option ID :- 330

Question ID:- 22

According to IS: 456-1978, the basic rules for design a slab are

Options:-

- Effective span, Option ID :- 85,
 - Control of deflection, Option ID :- 86,
 - Minimum reinforcement, Option ID :- 87,
 - All of these, Option ID :- 88,
- Answer Given:- Control of deflection, Option ID : -86**
Correct Answer :- All of these Option ID :- 88

Question ID:- 81

Which of the following is an aerosol?

Options:-

- Pollen grain, Option ID :- 321,
 - SO₂, Option ID :- 322,
 - Moist, Option ID :- 323,
 - HCl, Option ID :- 324,
- Answer Given:- Moist, Option ID : -323**
Correct Answer :- Moist Option ID :- 323

Question ID:- 69

Find the delta of the crop if It is said that a particular type of crop requires a depth of 6 cm of water every 24 days and the crop period is 168 days.

Options:-

- 42 cm, Option ID :- 273,
 - 50 cm, Option ID :- 274,
 - 20 cm, Option ID :- 275,
 - 95 cm, Option ID :- 276,
- Answer Given:- 42 cm, Option ID : -273**
Correct Answer :- 42 cm Option ID :- 273

Question ID:- 82

Due to which pollution, hearing becomes impaired in living beings?

Options:-

- Air pollution, Option ID :- 325,
- Soil pollution, Option ID :- 326,
- Noise pollution, Option ID :- 327,
- Water pollution, Option ID :- 328,

Answer Given:- Noise pollution, Option ID : -327

Correct Answer :- Noise pollution Option ID :- 327

Question ID:- 74

Which of the following is also known as uniformity coefficient ?

Options:-

- Water conveyance efficiency, Option ID :- 293,
- Consumptive use efficiency, Option ID :- 294,
- Water distribution efficiency, Option ID :- 295,
- Water storage efficiency, Option ID :- 296,

Answer Given:- Consumptive use efficiency, Option ID : -294

Correct Answer :- Water distribution efficiency Option ID :- 295

Question ID:- 44

_____ is the resistance offered by the internal stresses to the bending.

Options:-

- Failure Stresses, Option ID :- 173,
- Impact Stresses, Option ID :- 174,
- Bending Stresses, Option ID :- 175,
- Fatigue Stresses, Option ID :- 176,

Answer Given:- Bending Stresses, Option ID : -175

Correct Answer :- Bending Stresses Option ID :- 175

Question ID:- 102

The opportunities to cross slow moving traffic at intervals is not provided in case of:

Options:-

- Two – lane highways, Option ID :- 405,
- Three – lane highways, Option ID :- 406,
- Four – lane highways, Option ID :- 407,
- Eight – lane highways, Option ID :- 408,

Answer Given:- Two – lane highways, Option ID : -405

Correct Answer :- Four – lane highways Option ID :- 407

Question ID:- 75

The dissolved oxygen in water changes from 9 mg/l to 3 mg/l after 5 days. If the dilution factor is 3:50 then will be the BOD_5 (in mg/l) of the solution?

Options:-

- 50, Option ID :- 297,
- 100, Option ID :- 298,
- 150, Option ID :- 299,
- 200, Option ID :- 300,

Answer Given:- Not Attempted
Correct Answer :- 100 Option ID :- 298

Question ID:- 14

In limit state method, the maximum strain in tension reinforcement in the section at failure shall not be less than

Options:-

▪ $\frac{f_y}{1.15 E_s} + 0.002$,

Option ID :- 53,

▪ $\frac{f_y}{1.15 E_s} + 0.0035$,

Option ID :- 54,

▪ $\frac{f_y}{1.15 E_s} + 0.02$,

Option ID :- 55,

▪ $\frac{f_y}{1.15 E_s} + 0.035$,

Option ID :- 56,

Answer Given:- $\frac{f_y}{1.15 E_s} + 0.002$, **Option ID :- 53**

Correct Answer :- $\frac{f_y}{1.15 E_s} + 0.002$ **Option ID :- 53**

Question ID:- 53

How many types of hydraulic coefficient are there

Options:-

▪ Two, Option ID :- 209,

▪ Three, Option ID :- 210,

▪ Four, Option ID :- 211,

▪ One, Option ID :- 212,

Answer Given:- Two, Option ID :- 209

Correct Answer :- Three Option ID :- 210

Question ID:- 45

Identify the type of truss shown below:



Options:-

▪ Roof truss, Option ID :- 177,

▪ Bridge truss, Option ID :- 178,

- Perfect truss, Option ID :- 179,
 - None of these, Option ID :- 180,
- Answer Given:- Bridge truss, Option ID : -178**
Correct Answer :- Roof truss Option ID :- 177

Question ID:- 27

As per Darcy's Law in saturated soil

Options:-

- rate of flow per unit time is proportional to total cross section area of soil mass, Option ID :- 105,
- rate of flow per unit time is proportional to hydraulic gradient, Option ID :- 106,
- rate of flow per unit time is proportional to height of capillary rise, Option ID :- 107,
- rate of flow per unit time is proportional to atmospheric pressure, Option ID :- 108,

Answer Given:- rate of flow per unit time is proportional to hydraulic gradient, Option ID : -106

Correct Answer :- rate of flow per unit time is proportional to hydraulic gradient Option ID :- 106

Question ID:- 84

Hardness of water is due to the presence of ____.

Options:-

- Calcium carbonates, Option ID :- 333,
- Magnesium sulphates, Option ID :- 334,
- Magnesium carbonates, Option ID :- 335,
- All of the given options, Option ID :- 336,

Answer Given:- Calcium carbonates, Option ID : -333

Correct Answer :- All of the given options Option ID :- 336

Question ID:- 88

The pre-tender stage of construction requires

Options:-

- selection of site, Option ID :- 349,
- acquisition of land, Option ID :- 350,
- finalisation of designs, Option ID :- 351,
- all of the given options, Option ID :- 352,

Answer Given:- finalisation of designs, Option ID : -351

Correct Answer :- all of the given options Option ID :- 352

Question ID:- 79

In which of the following process earthworms decompose biodegradable solid waste?

Options:-

- Composting, Option ID :- 313,
- Land fills, Option ID :- 314,
- Shredding, Option ID :- 315,
- Vermi-composting, Option ID :- 316,

Answer Given:- Vermi-composting, Option ID : -316

Correct Answer :- Vermi-composting Option ID :- 316

Question ID:- 95

In CPM, the cost slope is determined by

Options:-

- $\frac{\text{Crash cost}}{\text{Normal cost}}$,
- $\frac{\text{Crash cost} - \text{Normal cost}}{\text{Normal time} - \text{Crash time}}$,

Option ID :- 377,

Option ID :- 378,

- $\frac{\text{Normal cost}}{\text{Crash cost}}$,

Option ID :- 379,

- $\frac{\text{Normal time} - \text{Crash time}}{\text{Crash cost} - \text{Normal cost}}$,

Option ID :- 380,

Answer Given:- $\frac{\text{Crash cost} - \text{Normal cost}}{\text{Normal time} - \text{Crash time}}$, Option ID : -378

Correct Answer :- $\frac{\text{Crash cost} - \text{Normal cost}}{\text{Normal time} - \text{Crash time}}$ Option ID :- 378

Question ID:- 63

According to the heads of centrifugal pump: gross head, effective head or dynamic head are the another name of ____

Options:-

- Static head, Option ID :- 249,
- Total head, Option ID :- 250,
- Manometric head, Option ID :- 251,
- Suction head, Option ID :- 252,

Answer Given:- Suction head, Option ID : -252

Correct Answer :- Total head Option ID :- 250

Question ID:- 89

F.W. Taylor introduced a system of organization known as

Options:-

- line organisation, Option ID :- 353,
- functional organisation, Option ID :- 354,
- line and staff organization, Option ID :- 355,
- none of the given options, Option ID :- 356,

Answer Given:- line and staff organization, Option ID : -355

Correct Answer :- functional organisation Option ID :- 354

Question ID:- 29

Compaction is a

Options:-

- gradual process of volume reduction under sustained loading , Option ID :- 113,
- process by which soil particle are naturally rearranged a packed together into closer state of contact , Option ID :- 114,
- process by which soil particle are artificially rearranged an packed together into closer state of contact by mechanical mean , Option ID :- 115,
- none of these , Option ID :- 116,

Answer Given:- process by which soil particle are artificially rearranged an packed together into closer state of contact by mechanical mean , Option ID : -115
Correct Answer :- process by which soil particle are artificially rearranged an packed together into closer state of contact by mechanical mean Option ID :- 115

Question ID:- 3

In which of the following theodolite the telescope can be rotated in a vertical plane?

Options:-

- Vernier theodolite, Option ID :- 9,
- Non-Transit theodolite, Option ID :- 10,
- Reverse theodolite, Option ID :- 11,
- None of these, Option ID :- 12,

Answer Given:- Reverse theodolite, Option ID : -11

Correct Answer :- Vernier theodolite Option ID :- 9

Question ID:- 98

A dummy activity in a net work:

Options:-

- is represented by a dotted line, Option ID :- 389,
- is an artificial activity, Option ID :- 390,
- does not consume time or resources, Option ID :- 391,
- all of the given options, Option ID :- 392,

Answer Given:- all of the given options, Option ID : -392

Correct Answer :- all of the given options Option ID :- 392

Question ID:- 31

When the soil mass is saturated, its bulk density is called

Options:-

- Dry density, Option ID :- 121,
- Density of solids, Option ID :- 122,
- Saturated density, Option ID :- 123,
- Submerged density, Option ID :- 124,

Answer Given:- Saturated density, Option ID : -123

Correct Answer :- Saturated density Option ID :- 123

Question ID:- 72

Calculate conveyance efficiency. The quantity of water pumped into the farm distribution system is 2 cumec. 1.6 cumec is delivered to the turn-out which is at a distance of 1 km from the well.

Options:-

- 80%, Option ID :- 285,
- 20%, Option ID :- 286,
- 50%, Option ID :- 287,
- 60%, Option ID :- 288,

Answer Given:- 60%, Option ID : -288

Correct Answer :- 80% Option ID :- 285

Question ID:- 119

The system of signalling used on single line working is known as:

Options:-

- Absolute block system, Option ID :- 473,
- Space interval system, Option ID :- 474,
- Time interval system, Option ID :- 475,
- Pilot guard system, Option ID :- 476,

Answer Given:- Space interval system, Option ID : -474

Correct Answer :- Space interval system Option ID :- 474

Question ID:- 111

The joint generally not used in Indian railways is:

Options:-

- Supported joint, Option ID :- 441,
- Suspended joint, Option ID :- 442,
- Base joint, Option ID :- 443,
- Bridge joint, Option ID :- 444,

Answer Given:- Suspended joint, Option ID : -442

Correct Answer :- Bridge joint Option ID :- 444

Question ID:- 8

The whole circle bearing of a traverse are recorded as given below. Convert these to reduced bearings for BC & CD.

Line	AB	BC	CD	DA
bearing	70° 30'	120° 45'	223° 30'	320° 47'

Options:-

- S59° 15' E & N53° 30' W , Option ID :- 29,
- S59° 15' E & S53° 30' W , Option ID :- 30,
- S59° 15' W & S53° 30' E , Option ID :- 31,
- N120° 45' E & S53° 30' E , Option ID :- 32,

Answer Given:- S59° 15' E & S53° 30' W , Option ID : -30

Correct Answer :- S59° 15' E & S53° 30' W Option ID :- 30

Question ID:- 96

The total activity slack is equal to:

Options:-

- Late start time - Early start time, Option ID :- 381,
- Late finish time - Early finish time, Option ID :- 382,
- Latest allowable event occurrence time - Early finish time, Option ID :- 383,
- All of the given options, Option ID :- 384,

Answer Given:- Late finish time - Early finish time, Option ID : -382

Correct Answer :- All of the given options Option ID :- 384

Question ID:- 105

The width of class 9 road is:

Options:-

- 2.45 m, Option ID :- 417,
- 3.65 m, Option ID :- 418,

▪ 4.9 m, Option ID :- 419,

▪ 6 m, Option ID :- 420,

Answer Given:- 3.65 m, Option ID : -418

Correct Answer :- 6 m Option ID :- 420

Question ID:- 70

What does the inverted filter defend the weir from in a protection arrangement?

Options:-

▪ Scouring Action, Option ID :- 277,

▪ Silting, Option ID :- 278,

▪ Piping, Option ID :- 279,

▪ Leakage Problems, Option ID :- 280,

Answer Given:- Scouring Action, Option ID : -277

Correct Answer :- Piping Option ID :- 279

Question ID:- 30

In Seepage pressure, if the flow occurs in downward direction, the effective pressure will be

Options:-

▪ Decrease, Option ID :- 117,

▪ No change, Option ID :- 118,

▪ Increase, Option ID :- 119,

▪ Double, Option ID :- 120,

Answer Given:- Increase, Option ID : -119

Correct Answer :- Increase Option ID :- 119

Question ID:- 46

What type of irrigation system is irrigation from wells?

Options:-

▪ Lift Irrigation, Option ID :- 181,

▪ Flow Irrigation, Option ID :- 182,

▪ Direct Irrigation, Option ID :- 183,

▪ Tank Irrigation, Option ID :- 184,

Answer Given:- Lift Irrigation, Option ID : -181

Correct Answer :- Lift Irrigation Option ID :- 181

Question ID:- 49

Macaulay's method is used to find

Options:-

▪ Strength of beam, Option ID :- 193,

▪ Quality of beam, Option ID :- 194,

▪ Uniformity of beam, Option ID :- 195,

▪ Deflection of beam, Option ID :- 196,

Answer Given:- Deflection of beam, Option ID : -196

Correct Answer :- Deflection of beam Option ID :- 196

Question ID:- 120

The bulking of sand is due to

- a) Viscosity
- b) Airvoid
- c) Surface Moisture

Options:-

- Only a, Option ID :- 477,
 - Only c, Option ID :- 478,
 - Only b & c, Option ID :- 479,
 - Only a & c, Option ID :- 480,
- Answer Given:- Only a & c, Option ID : -480**
Correct Answer :- Only c Option ID :- 478

Question ID:- 28

For Terzaghi theory of one-dimensional consolidation out of following assumption is not-correct

Options:-

- Darcy's law for velocity of flow of water through soil is perfectly valid., Option ID :- 109,
- Excess pore water drains only in the lateral direction, Option ID :- 110,
- Soil is restrained against vertical direction, Option ID :- 111,
- The change in thickness of the layer during consolidation is due entirely to permeability of soil, Option ID :- 112,

Answer Given:- Soil is restrained against vertical direction, Option ID : -111
Correct Answer :- Excess pore water drains only in the lateral direction Option ID :- 110

Question ID:- 101

When the bearing capacity of the soil is poor and the intensity of traffic is high, an additional layer is provided between the soling and sub – grade. This addition layer is called:

Options:-

- Sub-grade , Option ID :- 401,
 - Sub-base , Option ID :- 402,
 - Base , Option ID :- 403,
 - Wearing course , Option ID :- 404,
- Answer Given:- Sub-base , Option ID : -402**
Correct Answer :- Sub-base Option ID :- 402

Question ID:- 97

Which of the following statement is correct?

Options:-

- When float of an activity is zero, it falls only on critical path. , Option ID :- 385,
- CPM technique is useful to minimise the direct and indirect expenses. , Option ID :- 386,
- Critical path of a net work represents the minimum time required for completion of project , Option ID :- 387,
- All of the the given options , Option ID :- 388,

Answer Given:- When float of an activity is zero, it falls only on critical path. , Option ID : -385
Correct Answer :- All of the the given options Option ID :- 388

Question ID:- 56

Which are the following are the types of flow?

Options:-

- Steady flow, Option ID :- 221,
- Uniform flow, Option ID :- 222,
- Compressible flow, Option ID :- 223,
- All of these, Option ID :- 224,

Answer Given:- All of these, Option ID : -224

Correct Answer :- All of these Option ID :- 224

Question ID:- 112

The distance between two adjoining axles fixed in a rigid frame is known as:

Options:-

- Gauge, Option ID :- 445,
- Wheel base distance, Option ID :- 446,
- Creep, Option ID :- 447,
- None of the given options, Option ID :- 448,

Answer Given:- Wheel base distance, Option ID : -446

Correct Answer :- Wheel base distance Option ID :- 446

Question ID:- 5

Which of the following is not the Equipment for *Plane Table Survey*?

Options:-

- Plumbing, Option ID :- 17,
- Spirit level, Option ID :- 18,
- Compass, Option ID :- 19,
- All of these, Option ID :- 20,

Answer Given:- Spirit level, Option ID : -18

Correct Answer :- All of these Option ID :- 20

Question ID:- 106

A cement grouted road is an example of which type of pavement?

Options:-

- Semi - rigid, Option ID :- 421,
- Rigid, Option ID :- 422,
- Flexible, Option ID :- 423,
- Semi - flexible, Option ID :- 424,

Answer Given:- Flexible, Option ID : -423

Correct Answer :- Semi - rigid Option ID :- 421

Question ID:- 40

Which strain is known as dilatation strain?

Options:-

- Lateral strain, Option ID :- 157,
- Shear strain, Option ID :- 158,
- Longitudinal strain, Option ID :- 159,

▪ Volumetric strain, Option ID :- 160,
Answer Given:- Volumetric strain, Option ID : -160
Correct Answer :- Volumetric strain Option ID :- 160

Question ID:- 41

Which method is used to obtain Yield point?

Options:-

▪ On-set method, Option ID :- 161,
▪ Off-set method, Option ID :- 162,
▪ Yield stress, Option ID :- 163,
▪ None of these, Option ID :- 164,
Answer Given:- On-set method, Option ID : -161
Correct Answer :- Off-set method Option ID :- 162

Question ID:- 21

Which of the given following method is ensured adequate safety by suitably restricting the stress in the materials (i.e. concrete and steel) induced by the expected working loads on the structures.

Options:-

▪ Working stress method, Option ID :- 81,
▪ Ultimate load method, Option ID :- 82,
▪ Limit state method, Option ID :- 83,
▪ None of these, Option ID :- 84,
Answer Given:- Working stress method, Option ID : -81
Correct Answer :- Working stress method Option ID :- 81

Question ID:- 37

The Centre of gravity of a triangle lies along its central radius at a distance of

Options:-

▪ $h/3$, Option ID :- 145,
▪ $h/2$, Option ID :- 146,
▪ 0, Option ID :- 147,
▪ $2h/3$, Option ID :- 148,
Answer Given:- $h/3$, Option ID : -145
Correct Answer :- $h/3$ Option ID :- 145

Question ID:- 35

What are the basic quantities required to define the force?

Options:-

▪ Magnitude, Option ID :- 137,
▪ Point of application, Option ID :- 138,
▪ Direction of application, Option ID :- 139,
▪ All of these, Option ID :- 140,
Answer Given:- All of these, Option ID : -140
Correct Answer :- All of these Option ID :- 140

Question ID:- 10

The maximum permissible limit of solids (inorganic) for water to be used mixing shall

be

Options:-

- 200mg/l, Option ID :- 37,
- 400mg/l, Option ID :- 38,
- 3000mg/l, Option ID :- 39,
- 2000mg/l, Option ID :- 40,

Answer Given:- 2000mg/l, Option ID : -40

Correct Answer :- 3000mg/l Option ID :- 39

Question ID:- 68

Diversion scheme, comes under which type of irrigation system?

Options:-

- Direct Irrigation, Option ID :- 269,
- Storage Irrigation, Option ID :- 270,
- Flow Irrigation, Option ID :- 271,
- Inundation Irrigation, Option ID :- 272,

Answer Given:- Direct Irrigation, Option ID : -269

Correct Answer :- Direct Irrigation Option ID :- 269

Question ID:- 38

What is the relation between stress and strain, as material behaves elastically?

Options:-

- Stress is inversely proportional to Strain, Option ID :- 149,
- Stress is inversely proportional to square of Strain, Option ID :- 150,
- Stress is directly proportional to Strain, Option ID :- 151,
- Stress is directly proportional to square of Strain, Option ID :- 152,

Answer Given:- Stress is directly proportional to Strain, Option ID : -151

Correct Answer :- Stress is directly proportional to Strain Option ID :- 151

Question ID:- 12

The Minimum grade of concrete can be made using nominal mix concrete shall be

Options:-

- M7.5, Option ID :- 45,
- M10, Option ID :- 46,
- M15, Option ID :- 47,
- M5, Option ID :- 48,

Answer Given:- M5, Option ID : -48

Correct Answer :- M5 Option ID :- 48

Question ID:- 17

As per codal provisions of IS 3370, minimum grade of concrete for the RCC and PCC water tank are respectively

Options:-

- M20, M30, Option ID :- 65,
- M30, M20, Option ID :- 66,
- M30, M25, Option ID :- 67,
- M25, M20, Option ID :- 68,

Answer Given:- M25, M20, Option ID : -68

Correct Answer :- M30, M20 Option ID :- 66

Question ID:- 71

_____ soils are generally found in a mountainous region.

Options:-

- Alluvial soils, Option ID :- 281,
- Non-Alluvial soil, Option ID :- 282,
- Black soil, Option ID :- 283,
- None of the given options, Option ID :- 284,

Answer Given:- Non-Alluvial soil, Option ID : -282

Correct Answer :- Non-Alluvial soil Option ID :- 282

Question ID:- 90

The process of calculating the resource requirement of a project is known as

Options:-

- scheduling, Option ID :- 357,
- co-ordinating, Option ID :- 358,
- resource aggregation, Option ID :- 359,
- all of the given options, Option ID :- 360,

Answer Given:- scheduling, Option ID : -357

Correct Answer :- resource aggregation Option ID :- 359

Question ID:- 9

When the straight lines which the two curves connect are nearly parallel or intersect at a small angle. For this which type of curve used

Options:-

- Simple curve, Option ID :- 33,
- Compound curve, Option ID :- 34,
- Reverse curve, Option ID :- 35,
- Transition curve, Option ID :- 36,

Answer Given:- Transition curve, Option ID : -36

Correct Answer :- Reverse curve Option ID :- 35

Question ID:- 25

Moisture content of soil is defined as the

Options:-

- ratio of weight of solids to weight of water, Option ID :- 97,
- ratio of weight of voids to weight of water, Option ID :- 98,
- ratio of weight of water to weight of solids, Option ID :- 99,
- ratio of weight of water to weight of voids, Option ID :- 100,

Answer Given:- ratio of weight of water to weight of solids, Option ID : -99

Correct Answer :- ratio of weight of solids to weight of water Option ID :- 97

Question ID:- 93

An activity requires

Options:-

- events, Option ID :- 369,
- resources, Option ID :- 370,

▪ time and resources, Option ID :- 371,

▪ energy, Option ID :- 372,

Answer Given:- time and resources, Option ID : -371

Correct Answer :- time and resources Option ID :- 371

Question ID:- 32

Which statement is true for the purpose of soil exploration

Options:-

▪ Occurrence and extent of soil and rock strata needed, Option ID :- 125,

▪ Nature and engineering property of soil and rock information needed, Option ID :- 126,

▪ The location of ground water and its variation needed, Option ID :- 127,

▪ All of these, Option ID :- 128,

Answer Given:- All of these, Option ID : -128

Correct Answer :- All of these Option ID :- 128

Question ID:- 64

The ratio of inertia force and gravitational force is called

Options:-

▪ Euler's number, Option ID :- 253,

▪ Froude's number, Option ID :- 254,

▪ Reynolds number, Option ID :- 255,

▪ Stokes number, Option ID :- 256,

Answer Given:- Froude's number, Option ID : -254

Correct Answer :- Froude's number Option ID :- 254

Question ID:- 58

The loss of head due to various pipe fittings such as valves and couplings is expressed as

Options:-

▪ $h_{fit} = \frac{k}{2g} V$,

Option ID :- 229,

▪ $h_{fit} = \frac{k}{2g} V^2$,

Option ID :- 230,

▪ $h_{fit} = \frac{k}{4g} V^2$,

Option ID :- 231,

▪ $h_{fit} = \frac{k}{2g} V^3$,

Option ID :- 232,

$h_{fit} = \frac{k}{2g} V^2$

Answer Given:- , Option ID : -230

$h_{fit} = \frac{k}{2g} V^2$

Correct Answer :- Option ID :- 230

Question ID:- 16

Fineness of 33 grade ordinary Portland cement should not be less than

Options:-

- 2500 cm²/g, Option ID :- 61,
- 2000 cm²/g, Option ID :- 62,
- 3250 cm²/g, Option ID :- 63,
- 2250 cm²/g, Option ID :- 64,

Answer Given:- 2250 cm²/g, Option ID : -64

Correct Answer :- 2250 cm²/g Option ID :- 64

Question ID:- 99

Which of the following is a basic form of a truss?

Options:-

- Hexagonal, Option ID :- 393,
- Triangle, Option ID :- 394,
- Square, Option ID :- 395,
- Straight line, Option ID :- 396,

Answer Given:- Triangle, Option ID : -394

Correct Answer :- Triangle Option ID :- 394

Question ID:- 113

The best possible wood for sleepers is:

Options:-

- Sal, Option ID :- 449,
- Deodar, Option ID :- 450,
- Teak, Option ID :- 451,
- Chir, Option ID :- 452,

Answer Given:- Sal, Option ID : -449

Correct Answer :- Teak Option ID :- 451

Question ID:- 57

_____ tends to occur in large diameter pipes in which fluid flows with high velocity.

Options:-

- Turbulent flow, Option ID :- 225,
- Laminar flow, Option ID :- 226,
- Both Turbulent flow & Laminar flow, Option ID :- 227,
- None of these, Option ID :- 228,

Answer Given:- Turbulent flow, Option ID : -225

Correct Answer :- Turbulent flow Option ID :- 225

Question ID:- 24

Which of the following Indian standard codes provides design snow loads for buildings and structures.

Options:-

- IS 875 (part 2)-1987, Option ID :- 93,
- IS 875 (part 1)-1987, Option ID :- 94,

▪ IS 875 (part 3)-1987, Option ID :- 95,

▪ IS 875 (part 4)-1987, Option ID :- 96,

Answer Given:- IS 875 (part 3)-1987, Option ID : -95

Correct Answer :- IS 875 (part 4)-1987 Option ID :- 96

Question ID:- 59

The Dupit's equation tells, if the length of equivalent pipe is known, the diameter of equivalent pipe can be calculated or vice versa. According to this equation which of the following equation is correct?

Options:-

▪ $L/d = L_1/d_1 + L_2/d_2 + L_3/d_3$, Option ID :- 233,

▪ $L/d^2 = L_1/d_1^2 + L_2/d_2^2 + L_3/d_3^2$, Option ID :- 234,

▪ $L/d^3 = L_1/d_1^3 + L_2/d_2^3 + L_3/d_3^3$, Option ID :- 235,

▪ $L/d^4 = L_1/d_1^4 + L_2/d_2^4 + L_3/d_3^4$, Option ID :- 236,

Answer Given:- $L/d^4 = L_1/d_1^4 + L_2/d_2^4 + L_3/d_3^4$, Option ID : -236

Correct Answer :- $L/d^2 = L_1/d_1^2 + L_2/d_2^2 + L_3/d_3^2$ Option ID :- 234

Question ID:- 51

Which type of meter is used to measure gauge pressure?

Options:-

▪ Multimeter, Option ID :- 201,

▪ Ammeter, Option ID :- 202,

▪ Piezometer, Option ID :- 203,

▪ None of these, Option ID :- 204,

Answer Given:- Piezometer, Option ID : -203

Correct Answer :- Piezometer Option ID :- 203

Question ID:- 34

Indirect methods to determine Coefficient of permeability is/are

Options:-

▪ Computation from grain size, Option ID :- 133,

▪ Horizontal capillarity test, Option ID :- 134,

▪ Consolidation test data, Option ID :- 135,

▪ All of these, Option ID :- 136,

Answer Given:- Consolidation test data, Option ID : -135

Correct Answer :- All of these Option ID :- 136

Question ID:- 87

A construction team includes

Options:-

▪ owner, Option ID :- 345,

▪ engineer, Option ID :- 346,

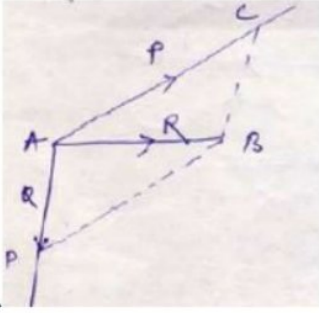
▪ architect, Option ID :- 347,

▪ all of the given options, Option ID :- 348,

Answer Given:- all of the given options, Option ID : -348

Correct Answer :- all of the given options Option ID :- 348

Question ID:- 36



In the following given question the parallelogram law of vector addition, the given figure shows?

Options:-

- Action and Reaction, Option ID :- 141,
- Resolution of a force, Option ID :- 142,
- Body in equilibrium, Option ID :- 143,
- Free body diagram, Option ID :- 144,

Answer Given:- Resolution of a force, Option ID : -142

Correct Answer :- Resolution of a force Option ID :- 142

Question ID:- 107

The formula for length of the tangent of a simple curve having angle of deflection θ and radius of curvature R, is equal to:

Options:-

- $R \sin \frac{\theta}{2}$,
- Option ID :- 425,**

- $R \cos \frac{\theta}{2}$,
- Option ID :- 426,**

- $R \tan \frac{\theta}{2}$,
- Option ID :- 427,**

- $R \cot \frac{\theta}{2}$,
- Option ID :- 428,**

Answer Given:- $R \tan \frac{\theta}{2}$, Option ID : -427

Correct Answer :- $R \tan \frac{\theta}{2}$ Option ID :- 427

Question ID:- 118

A triangle is used for:

Options:-

- Diverting trains from the main line to branch line, Option ID :- 469,
- Crossing over between parallel tracks, Option ID :- 470,
- Changing the direction of the engine, Option ID :- 471,

▪ All of the given options, Option ID :- 472,
Answer Given:- Diverting trains from the main line to branch line, Option ID : -469
Correct Answer :- Changing the direction of the engine Option ID :- 471

Question ID:- 2

Least count of prismatic compass and surveyor's compass is

Options:-

- 15minutes & 30minutes, Option ID :- 5,
- 30minutes & 30minutes, Option ID :- 6,
- 15minutes & 15minutes, Option ID :- 7,
- 30minutes & 15minutes, Option ID :- 8,

Answer Given:- 15minutes & 30minutes, Option ID : -5

Correct Answer :- 30minutes & 15minutes Option ID :- 8

Question ID:- 4

Which of the following is a simplest and inexpensive instrument?

Options:-

- Vernier theodolite, Option ID :- 13,
- Non-Transit theodolite, Option ID :- 14,
- Reverse theodolite, Option ID :- 15,
- None of these, Option ID :- 16,

Answer Given:- Non-Transit theodolite, Option ID : -14

Correct Answer :- Vernier theodolite Option ID :- 13

Question ID:- 116

The main purpose of using bearing plates is to:

Options:-

- Distribute the pressure over wider area, Option ID :- 461,
- Eliminate the adzing of wooden sleepers, Option ID :- 462,
- Prevent the widening of gauge of curves, Option ID :- 463,
- All of the given options, Option ID :- 464,

Answer Given:- All of the given options, Option ID : -464

Correct Answer :- All of the given options Option ID :- 464

Question ID:- 19

As per codal provisions of IS 3370, cracking of concrete can be controlled to some extent by maintain a slope filling rate of _____ at first time of filling.

Options:-

- 1m in 24 hour., Option ID :- 73,
- 1m in 48 hour., Option ID :- 74,
- 2 m in 24 hour., Option ID :- 75,
- 2 m in 48 hour., Option ID :- 76,

Answer Given:- 2 m in 24 hour., Option ID : -75

Correct Answer :- 1m in 24 hour. Option ID :- 73

Question ID:- 80

What is/are the method(s) to manage municipal waste?

Options:-

- Incineration, Option ID :- 317,
- Recovery, Option ID :- 318,
- Composting, Option ID :- 319,
- All of the given options, Option ID :- 320,

Answer Given:- Incineration, Option ID : -317

Correct Answer :- All of the given options Option ID :- 320

Question ID:- 48

_____ Method is used to find the deflection of beam.

Options:-

- 1) Macaulay's method, Option ID :- 189,
- 2) Double integration method, Option ID :- 190,
- 3) Unit load method, Option ID :- 191,
- 4) 1 and 2 only, Option ID :- 192,

Answer Given:- 4) 1 and 2 only, Option ID : -192

Correct Answer :- 4) 1 and 2 only Option ID :- 192

Question ID:- 52

A device used for measuring the rate of a flow of a fluid flowing through a pipe is known as

Options:-

- Orifice meter, Option ID :- 205,
- Venturi meter, Option ID :- 206,
- Pitot tube, Option ID :- 207,
- None of these, Option ID :- 208,

Answer Given:- Pitot tube, Option ID : -207

Correct Answer :- Venturi meter Option ID :- 206

Question ID:- 109

The bulk density of commonly available ordinary cement is:

Options:-

- 1440 Kg/m³, Option ID :- 433,
- 1360 Kg/m³, Option ID :- 434,
- 1400 Kg/m³, Option ID :- 435,
- 1640 Kg/m³, Option ID :- 436,

Answer Given:- 1440 Kg/m³, Option ID : -433

Correct Answer :- 1440 Kg/m³ Option ID :- 433

Question ID:- 114

The sleepers in the form of two bowls placed under each rail and connected together by a tie - bar are known as:

Options:-

- Pot sleepers, Option ID :- 453,
- Box sleepers, Option ID :- 454,
- Plate sleepers, Option ID :- 455,
- Duplex sleepers, Option ID :- 456,

Answer Given:- Pot sleepers, Option ID : -453

Correct Answer :- Pot sleepers Option ID :- 453

Question ID:- 60

The uniform flow in open channels is state that

Options:-

- The flow characteristics such as depth of flow, velocity of flow, rate of flow, at any point changes with respect to time., Option ID :- 237,
- For a given length of a channel, if the depth, slope, cross section and the velocity of the flow are constant., Option ID :- 238,
- The flow characteristics such as depth of flow, velocity of flow, rate of flow, at any point do not change with respect to time., Option ID :- 239,
- For a given length of a channel, if the depth, slope, cross section and the velocity of the flow are not constant., Option ID :- 240,

Answer Given:- The flow characteristics such as depth of flow, velocity of flow, rate of flow, at any point do not change with respect to time., Option ID : -239

Correct Answer :- For a given length of a channel, if the depth, slope, cross section and the velocity of the flow are constant. Option ID :- 238

Question ID:- 6

The plane table can be used for

Options:-

- Traversing, Option ID :- 21,
- Resection, Option ID :- 22,
- Intersection, Option ID :- 23,
- All of these, Option ID :- 24,

Answer Given:- All of these, Option ID : -24

Correct Answer :- All of these Option ID :- 24

Question ID:- 50

Viscosity of liquid ____ with the ____ of the temperature.

Options:-

- increases, increase, Option ID :- 197,
- decreases, decrease, Option ID :- 198,
- decreases, increase, Option ID :- 199,
- increases, decrease, Option ID :- 200,

Answer Given:- decreases, increase, Option ID : -199

Correct Answer :- decreases, increase Option ID :- 199

Question ID:- 15

The use of final pozzolana inhibits or prevents:

- a. Bleeding
- b. Increase heat of hydration
- c. Calcium hydroxide leaching
- d. De-passivation of steel

Options:-

- Only a, b and d , Option ID :- 57,
- Only a , Option ID :- 58,
- Only a and d , Option ID :- 59,

▪ Only a and c , Option ID :- 60,
Answer Given:- Only a and c , Option ID : -60
Correct Answer :- Only a and c Option ID :- 60

Question ID:- 115

Fish bolts are made of:

Options:-

- Cast iron, Option ID :- 457,
- Low carbon steel, Option ID :- 458,
- High carbon steel, Option ID :- 459,
- Stainless steel, Option ID :- 460,

Answer Given:- High carbon steel, Option ID : -459
Correct Answer :- High carbon steel Option ID :- 459

Question ID:- 103

A camber consisting of two straight slopes joining at the centre is called:

Options:-

- Barrel camber, Option ID :- 409,
- Sloped camber, Option ID :- 410,
- Composite camber, Option ID :- 411,
- Straight camber, Option ID :- 412,

Answer Given:- Straight camber, Option ID : -412
Correct Answer :- Sloped camber Option ID :- 410

