



SSC JE MAINS 2019

Civil Engineering

At Just

₹3499/-

Free
8 Test Series
Worth rps 799/-



Starting 10 November



Validity : 4 Months

 **Telegram Channel**
EVEREXAM TECH

DOWNLOAD
EVEREXAM APP



www.everexam.org

8595517959



SSC JE PRE 2020

- ✓ PDF Notes
- ✓ Validity 5 Months
- ✓ With **Free 3000+** Question Practice Batch

At Just **2199/-**

SSC JE MAINS 2019

- ✓ PDF Notes
- ✓ Validity 4 Months
- ✓ With **Free 8** Test Series Worth rps **799/-**

At Just **3499/-**

Combo Pack **Diwali** Offer

~~@ 5698/-~~ @ 4499/-



TELEGRAM CHANNEL
EVEREXAM TECH

DOWNLOAD
EVEREXAM APP



www.everexam.org

8595517959

Q) Which of the following range of pigment volume concentration number is recommended for paint for prime coat on metal?

A: 40-50

B: 50-60

C: 60-70

D: 25-40

Q) The best season for felling of trees for timber production in hilly area:

A: Summer

B: Monsoon

C: Winter

D: Spring

Q) Which of the following Indian standard is referred to determine zone of fine aggregate?

A: IS 1237

B: IS 456

C: IS 383

D: IS 1893

Q) A dummy activity in a project network does not consume.

A: Time

B: Material

C: Money

D: All the above

Q) Maximum permissible wear in stones for road work is:

A: 4%

B: 2%

C: 1%

D: 3%

Q) A good brick earth can be rolled without breaking in small thread of diameter:

A: 6 mm

B: 1 mm

C: 10 mm

D: 3 mm

Q) Fat lime is used for best performance in

A: Plaster work

B: Lime concrete

C: Masonry mortar

D: None of above

Q) Which of the following grades of concrete in R.C.C. is recommended for severe exposure condition by BIS?

A: M20

B: M25

C: M30

D: M15

Q) Which of the following minerals has more than 50% share in rapid hardening cement:

A: C_2S

B: C_3A

C: C_3S

D: C_4AF

Q) The reading of differential manometer of a venturimeter placed at 45° to the horizontal is 11 cm. If the venturimeter is turned to horizontal position, the manometer reading will be:

A: $11\sqrt{2}$ cm

B: Zero

C: $\frac{11}{\sqrt{2}}$ cm

D: 11 cm

Q) The cippoletti weir is a Weir.

A: Triangular

B: Trapezoidal

C: Circular

D: Rectangular

Q) The power transmitted through the pipe is maximum when the head loss due friction is equal to:

A: $\frac{1}{4}$ th of the total supply head

B: $\frac{1}{2}$ th of the total supply head

C: $\frac{1}{3}$ th of the total supply head

D: $\frac{2}{3}$ th of the total supply head

Q) Due to aging of a pipe line, its carrying capacity has decreased by 25%. The corresponding increase in the Darcy weisbach friction factor f is %

A: 63%

B: 77%

C: 56%

D: None of the above

Q) The friction factor of laminar liquid flow in a circular pipe is proportional to:

A: Square root of the Reynold's number

B: Inveresely to the Reynold's number

C: Reynold's number

D: Square to the Reynold's number

Q) Surface tension is due to:

A: Cohesion and adhesion

B: Cohesion only

C: Adhesion only

D: None of the above

Q) The absolute pressure is equal to:

A: Atmospheric pressure – Vacuum pressure

B: Gauge pressure + Atmospheric pressure

C: Gauge pressure – Vacuum pressure

D: gauge pressure + Vacuum pressure

Q) The centre of gravity of the volume of the liquid displaced is called:

A: Centre of buoyancy

B: Meta centre

C: Centre of pressure

D: None of the above

Q) Which of the following function represent the velocity potential of a function?

A: $\phi = x^3 - y^3$

B: $\phi = x^2 + y^2$

C: $\phi = x^2 - y^2$

D: $\phi = 2x^2 y^2$

Q) The point on the celestial sphere vertically below the observer's position is called:

A: Zenith

B: Pole

C: Nadir

D: Celestial point

Q) The most widely used antenna is GPS is:

A: Horn antenna

B: Microstrip antenna

C: Slotted antenna

D: Parabolic antenna

Q) In long and short wall method of estimation, the length of long wall is the centre of centre distance between the walls and plus.:

A: Breadth of the wall

B: Half breadth of wall on each side

C: One fourth breadth of wall on each side

D: None of these

Q) The local mean time at a place located in longitude $90^{\circ} 40' E$ when the standard time is 6 hours and 30 minutes and the standard meridian is $82^{\circ}30' E$ is:

A: 5 hours, 2 minutes and 40 seconds

B: 6 hours, 47 minutes and 20 seconds

C: 5 hours, 47 minutes and 20 seconds

D: 7 hours, 02 minutes and 40 seconds

Q) The survey in which the earth's curvature is also considered is called:

A: Preliminary survey

B: Topographical survey

C: Plain survey

D: Geodetic survey

Q) The latitude and departure of a line AB are + 78 m and -45. 1m, respectively. The whole circle bearing of the line AB is:

A: 30°

B: 120°

C: 150°

D: 330°

Q) A series of closed contour lines on the map with lower to higher values inside then, represents a:

A: Hill

B: Depression

C: Ridge

D: Steep slope

Q) Two-point problem and three-point problem are method of:

A: Resection

B: Orientation

C: Orientation and resection

D: None of these

Q) Given that for a soil deposit

K_0 = earth pressure coefficient at rest

K_a = active earth pressure coefficient

K_p = passive earth pressure coefficient

μ = poisson's ratio

The value of $(1 - \mu)/\mu$ is given by:

$(1 - \mu)$

A: K_p/K_a

B: K_0

C: $1/k_0$

D: K/K_p

Q) A gross bearing capacity of a 2.0m wide strip footing at a depth of 1.5m is 450 kN/m². If $\gamma = 20 \text{ kN/m}^3$, what is the net bearing capacity?

A: 430 kN/m²

B: 410 kN/m²

C: 400 kN/m²

D: 420 kN/m²

Q) The size of square bearing plate in the plat load test for determining the bearing capacity of soil should be:

A: Between 300 mm and 750 mm

B: Between 750 mm and 1.0 m

C: Greater than 1.0 m

D: Less than 300 mm

Q) A catchment consists of 40% area with run-off coefficient 0.30 with the remaining 60% area with run-off coefficient 0.50. The equivalent run-off coefficient will be:

A: 0.38

B: 0.48

C: 0.42

D: 0.52

Q) For calculating the maximum flood discharge in an alluvial stream, which is the best suited relation?

A: $V \propto D^{0.64}$

B: $V \propto R^{1/2} S^{1/2}$

C: $V \propto R^{2/3} S^{1/3}$

D: $V \propto R^{2/3} S^{1/2}$

Q) Discharge per unit drawdown at a well is called:

A: Specific capacity

B: Specific storage

C: Specific yield

D: None of the above

Q) Water present in an artesian aquifer is usually:

A: At 0.5 time of the atmospheric pressure

B: At sub atmospheric pressure

C: Above atmospheric pressure

D: At atmospheric pressure

Q) The water utilized by plants is available in the form of:

A: Capillary water

B: Chemical water

C: Hydroscopic water

D: Gravity water

Q) A canal has designed to supply the irrigation needs of 1000 ha of land growing rice of 140 days base period and having a delta of 126 cm. If the canal water is used to irrigate wheat of base period 120 days and having a delta of 60 cm, the area that can be irrigated is:

A: 2000 ha

B: 1600 ha

C: 2200 ha

D: 1800 ha

Q) In the alignment of an irrigation channel wherefrom off takes have to be provided at regular intervals, changes in the given channel parameters are made of. The correct sequence of the decreasing order of preference of these parameters is:

A: Width, depth, slope

B: Depth, width, slope

C: Depth, slope, width

D: Width, slope, depth

Q) A ridge is called a:

A: Contour canal

B: Side slope canal

C: Watershed canal

D: Across the contours

Q) Lacey's silt factor for medium silt whose average grain size is 0.25 mm, is likely to be:

A: 0.66

B: 0.88

C: 0.77

D: 0.99

Q) Garret's diagrams are based on:

A: Lacy's theory

B: Bligh's theory

C: Kennedy's theory

D: Khosla's theory

Q) Which of the following method is most accurate for the determination of the water content of soil:

A: Sand bath method

B: Calcium carbide method

C: Oven drying method

D: Pycnometer method

Q) The plastic limit and liquid limit of a soil sample are 35% and 70% respectively. The percentage of soil fraction with grain size finer than 0.002 mm is 25. The activity ratio of the soil sample is:

A: 0.6

B: 1.4

C: 1.0

D: 1.8

Q) The hydraulic head that would produce a quick sand condition in a sand stratum of thickness 1.8 m, specific gravity 2.65 and void ratio 0.65 is equal to:

A: 1.8 m

B: 1.2 m

C: 1.0 m

D: 1.6 m

Q) The hydrostatic pressure on the phreatic line within a dam section is:

A: Greater than atmospheric pressure

B: Equal to atmospheric pressure

C: Less than atmospheric pressure

D: None of the above

Q) Which code does not match?

Prajamandal

Founder

a) Jaisalmer

-

Meethala vyas

b) Kotah

-

Nayanuram sharma

c) Jaipur

-

Kapoorchand patani

d) Bundi

-

Gopilal Yadav

A: A

B: C

C: B

D: D

Q) Which district of rajasthan currently produces maximum quantity of gypsum?

A: Hanumangarh

B: Bikaner

C: Nagaur

D: Jaisalmer

Q) In which physical division of rajasthan are the mukandra hills located?

A: Bhorat plateau

B: Southern Aravalli

C: Shekhawati region

D: Hadoti plateau

Q) Which of the districts of rajasthan are benefited by Choudhary kumbha ram lift of Indira Gandhi canal?

A: Sikar and jhunjhunnu

B: Hanumangarh and churu

C: Jodhpur and nagaur

D: Ganganagar and Bikaner

Q) National highway of rajasthan which forms part of both then golden quadrant project as well as the east-west corridor:

A: NH No. 76

B: NH No. 15

C: NH No. 79

D: NH No. 8



Has Launched New Course

SSC JE PRE 2020



At Just ₹2199 With Free 3000+ Question Practice Batch



**TELEGRAM CHANNEL
EVEREXAM TECH**

**DOWNLOAD
EVEREXAM APP**



www.everexam.org

8595517959