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Q : 1) The relation between void ratio 'e', water content 'W', specific gravity 'G' and degree of saturation 'Sr' for a soil sample is:

A : $e = \frac{WG}{Sr}$

B : $e = \frac{W Sr}{G}$

C : $e = \frac{W}{G Sr}$

D : None of the above

Q : 2) Undisturbed soil samples are obtained by:

A : Thick walled samplers

B : Direct excavations

C : Thin walled samplers

D : Augers

Q : 3) A soil sample has bulk density of 21 kN/m³ and water content 8%. Dry density of the sample is:

A : 19.00 kN/m³

B : 18.44 Kn/m³

C : 22.68 kN/m³

D : 19.44 kN/m³

Q : 4) A load of 4000 kN is uniformly distributed over an area of $3\text{m} \times 3\text{m}$. Average vertical stress at a depth of 2m below will be (assuming 2 vertical : 1 horizontal distribution) :

A : 250 kN/m^2

B : 160 kN/m^2

C : 200 kN/m^2

D : 220 kN/m^2

Q : 5) The permeability of a soil sample will be _____ if entrapped air is present in the sample.

A : Decreased

B : Unaffected

C : Increased

D : None of the above

Q : 6) Most suitable method for drainage of fine grained soil is:

A : Well point system

B : Vacuum method

C : Electro-osmosis method

D : Deep well system

Q : 7) A cantilever sheet pile derives its stability from :

A : Self-weight of sheet pile

B : Lateral resistance of soil

C : Anchor road

D : None of the above

Q : 8) If a weak plane exists above the toe of typical slope, the probable failure of the slope is excepted as (considering the stability of the slope):

A : Slope failure

B : Base failure

C : Transitional failure

D : Toe failure

Q : 9) According to Terzaghi's equation, the bearing capacity of strip footing resting on cohesive soil ($C = 10 \text{ kN/m}^2$) per unit depth and unit width ($N_c = 5.7$) will be:

A : 47 kN/m^2

B : 67 kN/m^2

C : 57 kN/m^2

D : 77 kN/m^2

Q : 10) The maximum differential settlement in isolated footings on sandy soils shall not exceed:-

A : 40 mm

B : 100 mm

C : 65 mm

D : 25 mm

Q : 11) The major loss of hydraulic energy in pipe flow occurs in long pipe due to:

A : Sudden enlargement

B : Friction

C : Sudden contraction

D : Gradual enlargement or contraction

Q : 12) The best hydraulic channel cross-section should have:

A : Least cost

B : Minimum wetted perimeter

C : Maximum area for a given flow

D : Minimum roughness coefficient

Q : 13) The conditions for the flow of fluid in Bernoulli's equation are assumed as:

A : Steady, incompressible and ideal

B : Steady, irrotational and uniform

C : Steady, uniform and incompressible

D : None of the above

Q : 14) The gases are considered incompressible if Mach number is

A : = 0.50

B : > 0.30

C : = 1

D : < 0.20

Q : 15) The type of vortex for the flow of water in a wash basin, when it is being emptied through a central opening, is called:

- A : Forced vortex**
- B : Rotational vortex**
- C : Free vortex**
- D : Rankine vortex**

Q : 16) The expression for kinematic viscosity of a fluid is:

A : Dynamic viscosity x density

B : Dynamic viscosity / density

C : Dynamic viscosity x pressure

D : None of the above

Q : 17) Choose the most correct statement for pipe in series problems:

A : The discharge is same through each pipe

B : The discharge through each pipe is additive to total discharge

C : The head loss is the same through each pipe

D : None of the above

Q : 18) Surge tank in a pipe line is used to:

A : Reduce the loss of head due to friction in pipe

B : Make the flow uniform in pipe

C : Release the pressure due to water hammer

C : None of the above

Q : 19) For turbulent flow through rough pipe, the factor $\frac{Re\sqrt{f}}{R/k}$ is (Notation have their usual meaning):

A : > 16

B : > 400

C : > 70

D : < 70

Q : 20) Notches are used to measure:

A : Flow rate

B : Velocity

C : Pressure

D : All above

Q : 21) In laminar flow between parallel plates, the ratio of maximum velocity and average velocity of flow is:

- A : 2.0**
- B : 1.33**
- C : 1.5**
- D : 1.0**

Q : 22) Pitot tube measures:

A : Pressure head only

B : Total head only

C : Velocity head only

D : Above all

Q : 23) The loss of energy due to sudden enlargement in a pipe is given by:

A : $V^2/2g$

B : $kV^2/2g$

C : $0.5V^2/2g$

D : $(V_1 - V_2)^2/2g$

(Where symbols have their usual meanings)

Q : 24) A model of a spillway with scale ratio 1 : 9 is to be tested in a laboratory. What will be the discharging capacity of the model if the discharge over prototype spillway is $486 \text{ m}^3/\text{sec}$?

A : $0.25 \text{ m}^3/\text{sec}$

B : $1.0 \text{ m}^3/\text{sec}$

C : $2 \text{ m}^3/\text{sec}$

D : $2.5 \text{ m}^3/\text{sec}$

Q : 25) If the flow around a sphere is taking place with Reynolds number is just greater than 500×10^3 , the value of C_D will be: (C_D = Drag coefficient):

A : 0.50

B : 0.20

C : 0.25

D : 0.10

Q : 26) For flows through porous media, Darcy's law is applicable when Reynold's number is:

A : ≤ 2

B : $= 0.1$

C : > 1

D : ≤ 1

Q : 27) Cavitation in a pipe is caused when:

A : High velocity

B : Pressure approaches vapour pressure

C : Low velocity

D : None of the above

Q : 28) Continuity equation is based on the principle of:

A : Conservation of mass

B : Conservation of energy

C : Conservation of momentum

D : None of the above

Q : 29) If V_s is the tangential velocity of flow around a curved path and R is the radius of curvature, the normal acceleration for the flow will be:

A : V_s/R

B : V_s/R^2

C : V^2_s/R

D : V^2_s/R^2

Q : 30) A spherical particle of diameter 0.4 mm is falling in water with a velocity of 0.4 m/sec, the drag coefficient for the particle will be:

A : 1.50

B : 15.00

C : 180.00

D : 150.00

Q : 31) Moody's diagram is drawn between :

A : Friction factor and Reynold's number

B : Friction factor, Reynold's number and relative roughness

C : Friction factor and relative roughness

D : None of the above

Q : 32) To avoid an interruption in flow of a syphon, an air vessel is provided:

A : At the summit

B : At the inlet

C : At the outlet

D : At any point between inlet and outlet

Q : 33) If the conjugate depth before and after the jump are 0.5 m and 2.5 m respectively, the loss of energy in the hydraulic jump will be:

A : 0.80 m

B : 3.20 m

C : 6.40 m

D : 1.60 m

Q : 34) For a two dimensional flow, the stream function is given by $\psi = 2xy$. The velocity at a point (3, 4) is equal to:

A : 6m/sec

B : 8m/sec

C : 10m/sec

D : 12m/sec

Q : 35) Mach number is the ratio of:

A : Inertia force to viscous force

B : Characteristic velocity to velocity of sound

C : Viscous force to inertia force

D : Velocity of sound to characteristic velocity

Q : 36) The pressure rise due to water hammer depends upto:

A : Velocity of flow of water in pipe

B : Length of pipe

C : Time taken to close the valve

D : All the above

Q : 37) Dimension of the kinematic viscosity is:

A : L^2T^{-1}

B : $ML^{-2}T^2$

C : $ML^{-1}T^{-1}$

D : None of the above

Q : 38) The coefficient of discharge, C_d in terms of C_v and C_c is given by (Notations have their usual meaning):-

A : $C_d =$

B : $C_d = C_v \times C_c$

C : $C_d = \frac{C_c}{C_v}$

D : None of the above

Q : 39) For laminar flow in a circular conduits, the energy correction factor α is taken as:

A : 1.33

B : 1.03

C : 2.00

D : 2.50

Q : 40) To study the cruising of supersonic missiles in air by using dimensional analysis technique, which of the two dimensionless numbers will be of significance:

A : Reynolds number and Froude's number

B : Weber number and Mach number

C : Weber number and Froude's number

D : Reynolds number and Mach number

Q : 41) Lining of a canal is necessary:

A : To prevent erosion of bed and sides due to high velocities

B : To minimize the seepage of looses

C : To increase the discharge by increasing velocity

D : All of the above

Q : 42) A channel designed using Lacey's theory has mean velocity of 1m/sec and silt of one, the hydraulic radius for channel will be :

A : 2 m

B : 2.5 m

C : 1.0 m

D : 0.50 m

Q : 43) The purpose of cross regulator in a canal is:

A : To regulate water supply in the off-taking channel

B : To regulate water supply in the main channel

C : To head up water for adequate supply into the off-taking channel

D : To regulate excessive flood water

Q : 44) Entry of silt into the canal is controlled by:

A : Silt excluder

B : Silt extractor

C : Silt ejector

D : Head regulator

Q : 45) In the hydraulic jump, the flow condition is:

A : Gradually varied

B : Rapid

C : Un-steady

D : None of the above

Q : 46) The maximum compressive force in a gravity dam exists _____ When the reservoir is full:

A : At the heel

B : At the centre of base

C : Within middle third of base

D : At the toe

Q : 47) The most adverse condition for stability of slope for the upstream face of an earthen dam is:

A : Steady seepage

B : Reservoir empty

C : Sudden draw down

D : None of the above

Q : 48) In a river, spurs are provided:

A : To train the flow along a specified course

B : To confine the width of river

C : To reduce the flood peak

D : None of the above

Q : 49) At the site where an aqueduct is constructed, the width of river is 111 m. If there are 6 piers (each of width 1 m), the width of water way will be:

A : 5 m

B : 10 m

C : 15 m

D : 20 m

Q : 50) Which of the following dams of India is an example of arch dam?

A : Tehri dam

B : Idukki dam

C : Bhakra dam

D : Sardar Sarovar dam

Q : 51) For uniform flow in a rectangular channel which one is correct statement (S_o = bed slope, S_f = energy slope, and S_w = water surface slope):

A : $S_b = S_f > S_w$

B : $S_b > S_f > S_w$

C : $S_b = S_f = S_w$

D : $S_f > S_b > S_w$

Q : 52) Lacey's regime equation for longitudinal slope, 'S' of canal is given by (Q = discharge, f = Lacey's factor and R = Hydraulic mean radius):-

A : $S = f^{3/2} / 8980 R^{1/2}$

B : $S = f^{5/3} / 8990 R^{1/2}$

C : $S = f^{5/3} / 3340 Q^{1/6}$

D : None of these

Q : 53) A soil composed of loose granular graded material which can be scoured off with the same ease with which it is deposited is known as :

A : Silty loam

B : Incoherent alluvium

C : Sandy clay

D : Regime silt

Q : 54) The discharge per unit draw down at the well is known as :

A : Specific yield

B : Specific storage

C : Specific retention

D : Specific capacity

Q : 55) According to Khosla's theory, the exit in the absence of a downstream cutoff is:

A : Zero

B : Unity

C : Infinity

D : Very large

Q : 56) In a sarda type fall, rectangular crest is used for discharge upto:

A : 6 cumecs

B : 14 cumecs

C : 10 cumecs

D : 20 cumecs

**Q : 57) If the sediment size is 0.81 mm
the silt factor will be:**

A : 1.721

B : 1.010

C : 0.900

D : 1.584

Q : 58) In case of non-availability of space due to topography, the most suitable spillway in this condition is-

A : Straight drop spillway

B : Chute spillway

C : Shaft spillway

D : Ogee spillway

Q : 59) If critical velocity ratio C.V.R is 2.0, one of the following will occur.

A : Silting in canal

B : Scouring in canal

C : Both silting & scouring

D : None of the above

Q : 60) By using Bligh's theory for the design of floor if residual head at any section is 0.42 m and specific gravity of material is 2.4, what will be thickness of floor?

A : 0.50 m

B : 0.40 m

C : 0.25 m

D : 0.30 m

Result : **SSC JE 2019**

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