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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

Q : 1) In a double riveted double covered butt joint, the strength of the joint per pitch length in shearing the rivets P_d and strength of one rivet in single shear P_s are related as:

A : $P_d = 2.5 P_s$

B : $P_d = 3 P_s$

C : $P_d = 2 P_s$

D : $P_d = 4 P_s$

Q : 2) The characteristics of air pollution control mechanism is given below.

- 1. Uses electrical force to move the particles out of the flowing gas stream onto collector plates.**
- 2. The particles are removed from the plate by rapping and collected in a hopper below the unit.**

Identify the control mechanism.

A : Electrostatic Precipitators

B : Venturi Scrubbers

C : Settling Chambers

D : Cyclones

Q : 3) A steel rod of 20 mm diameter is used as a tie member in the roof bracing system and may be subjected to possible reversal of stress due to wind load. What is the maximum permissible length of the member?

A : 2250 mm

B : 2000 mm

C : 1750 mm

D : 3000 mm

Q : 4) A body submerged in equilibrium when:

A : Its meta center is above the center of buoyancy

B : Its center of gravity is above the center of buoyancy

C : Its meta center is above the center of gravity

D : Its center of buoyancy is above the center gravity

Q : 5) A reinforced concrete beam is subjected to the following bending moments:

**Moment due to Dead load = 60 kNm:
Moment due to live load = 90 kNm: Moment
due to Seismic load = 30 kNm. The design
bending moment for limit state of collapse
is:**

A : 225 kNm

B : 216 kNm

C : 180 kNm

D : 135 kNm

Q : 6) The recommended values of compressive strength (CS) and water absorption (WA) for heavy duty burnt clay bricks class 400 as per IS 2180 are respectively:

A : CS = 45 to 50 N/mm²; WA ≤ 20%

B : CS = 35 to 40 N/mm²; WA ≤ 15%

C : CS = 30 to 40 N/mm²; WA ≤ 12%

D : CS = 40 to 45 N/mm²; WA ≤ 10%

Q : 7) The maximum spacing of the shear reinforcement (as vertical stirrups) measured along the axis of a reinforced concrete beam of width 300 mm and effective depth 500 mm, with a span 6 m is:

- A : 300 mm**
- B : 375 mm**
- C : 200 mm**
- D : 337.5 mm**

Q : 8) A closed cylindrical tank of height 2 m is partly filled with oil of relative density 0.8 to a depth of 1m, is subjected to an air pressure of 20kN/m^2 above the oil. Determine the total pressure (in kN/m^2 units) at the bottom of the tank. Take unit weight of water as 1000 N/m^3

A : 12

B : 20

C : 28

D : 20.8

Q : 9) In plate girders intermediate vertical stiffeners are provided to safeguard:

A : Increase self-weight of plate girder

B : Web against shear buckling stress

C : Transfer concentrated loads on girder to the web

D : Web against bending buckling stress

Q : 10) In dealing with the problem of air pollution gravitational settling chambers are generally used to remove large, abrasive particles from:

A : Stack

B : Gas streams

C : Stack & ambient air

D : Ambient air

Q : 11) Identify the air pollutant which is not produced from automobile exhausted

A : Oxides of nitrogen

B : Hydrogen sulphide

C : Lead

D : Particulate dust

Q : 12) Water flows with a flow rate of 0.5 cumecs through a pipe AB of length 12 m length having a uniform cross-section. The end B of the pipe is above the end A and the pipe makes an angle of 30° to the horizontal. For a pressure of 20 kN/m^2 at the end B, the corresponding pressure at the end A (in kN/m^2 units): (Take unit weight of water as 10 kN/m^3)

A : 120

B : 32

C : 40

D : 80

Q : 13) The effective length of a steel compression member of length l , restrained against translation and rotation at one end, while the other end is restrained against translation and not restrained against rotation is :

A : $0.8 l$

B : $1.2 l$

C : $0.65 l$

D : $2 l$

Q : 14) Vortex flow of irrotational motion, without any external torque the rate of change of angular momentum must be

A : Zero

B : Two

C : One

D : Three

Q : 15) According to IS 456, under limit state of collapse condition, for assessing the strength of a structure, the values of partial safety factors for steel and concrete are respectively:

A : 1.15 and 1.65

B : 1.15 and 1.5

C : 0.87 and 1.2

D : 1.5 and 1.15

Q : 16) A steel Built up column is subjected to an axial force of 2000 kN. The lacing system has to be designed for resisting transverse shear of:

A : 40 kN

B : 20 kN

C : 80 kN

D : 50 kN

Q : 17) Web crippling in I section steel beams occurs at the points where:

A : Concentrated loads act

B : Bending moment is maximum

C : Deflection is maximum

D : Shear force is maximum

Q : 18) As per Newton's law of viscosity the stress acting between two layers of fluid is:

A : Directly proportional to the distance between them.

B : Inversely proportional to the square of the distance between them

C : Directly proportional to the square of the distance between them

D : Inversely proportional to the distance between them

Q : 19) For 2 way continuous slabs having shorter span (Less than 3.5 m), with high strength deformed bars of Fe415 grade, span to overall depth ratio of slab, to satisfy the vertical deflection limits for loading class upto 3 kN/m^2 , is:

A : 32

B : 40

C : 28

D : 35

Q : 20) Identify the one which does not belong to the category of secondary air pollutant?

A : Oxides of nitrogen

B : Ozone

C : Photochemical smog

D : PAN (Peroxy Acetyl Nitrate)

Q : 21) For a trapezoidal channel f specified side slope, the most economical cross-section for conveying the maximum discharge through the channel section is given by the condition:

A : Top width must be equal to one of the sloping of channel

B : Hydraulic radius must be equal to the depth of flow

C : Twice the top width must be equal to one of the sloping side of channel

D : Hydraulic radius must be equal to half the depth of flow

Q : 22) The addition of 50 decibel noise with another 50 decibel noise is equivalent to a noise of:

- A : 53 decibel**
- B : 73 decibel**
- C : 100 decibel**
- D : 83 decibel**

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