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Q:) Which of the following grades of concrete is recommended by BIS for moderate exposure condition?

A : M10

B : M15

C : M20

D : M25

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Q:) Slack in a PERT network refers to

A : Activity

B : Event

C : Dummy Activity

D : None of these.

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Q:) In a CPM network latest finish time for an event I is 8 weeks. Activity I-J takes 4 weeks for compeletion Event j star after 12 weeks. Float for activity I-J is

A : 4 weeks

B : 8 weeks

C : 12 weeks

D : 0 weeks

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Q:) If for a fluid in motion, pressure at a point is same in all direction, then the fluid is

A : A real fluid

B : A newtonian fluid

C : An ideal fluid

D : A non-newtonian fluid

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Q:) In an iceberg, 15% of the volume project above the sea surface. If the specific weight of sea water is 10.5 kN/m^3, the specific weight of iceberg in kN/m^3

A : 12.52

B : 9.81

C : 8.93

D : 7.83

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Q:) A body floating in a liquid is said to be in neutral equilibrium, if its metacentre

A : Coincides with the centre of gravity

B : Lies above is centre of gravity

C : Lies below its centre of gravity

D : Lies between the centre of buoyancy and centre of gravity

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Q:) A stream function is given by:

$\psi = 2x^2y+(x+1)y^2$

The flow rate accross a line joining points A (3,0) and B (0,2)is

A : 0.4 units

B : 1.1 units

C : 5.0 units

D : 4.0 units

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Q:) Euler's equation in the differential form the motion of liquids is given by

A : edp + g.dz + v.dv = 0

B : dp/e + g.dz + v.dv = 0

C : dp/e - g.dz + v.dv = 0

D : edp - g.dz + v.dv = 0

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Q:) Two small orifies A and B of dia. 1 cm and 2 cm respectively,are placed on sides of a tank at depth of h1 and h2 below the open liquid surface. If discharge throngh A and B are equal, then ratio of h1 and h2 (assuming equal cd value) will be

A : 16:1

B : 8:1

C : 4:1

D : 2:1

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Q:) The francis formula for the discharge over cippoletti weir is

A : $1.84LH^{1/2}$

B : 1.84 LH

C : $1.84LH^{3/2}$

D : $1.84LH^{5/2}$

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Q:) A nozzle is generally made of

A : Cyliderical shape

B : Convergent shape

C : Divergent shape

D : Convergent - divergent shape

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Q:) The magnitude of water hammer depends upon the

A : Speed at which the valve is closed

B : Elastic properties of the pipe material

C : Elastic properties of the liquid flowing through pipe

D : All of the above

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Q:) In a particular catchment area, an accurate estimate of average rainfall can be obtained by

A : Isohytal method

B : Arithmetic mean method

C : Thiessen method

D : Normal ratio method

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Q:) Laysimeter is used to measure

A : Infiltration

B : Evaporation

C : Vapour pressure

D : Evapotranspiration

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Q:) Which of the following is a non-recording rain gauge?

A : Floating type rain gauge

B : Steven's weighing type rain gauge

C : Simon's rain gauge

D : Tipping bucket type rain gauge

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Q:) Infiltration rate is always

A : Less than the filtration capacity

B : equal to or less than the infiltration capacity

C : equal to or more than the infiltration capacity

D : more than the infiltration capacity

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Q:) A catchment area of 80 hectare has a run-off coefficient of 0.5. A storm of duration larger than time of concentration of the catchment and of intensity 3.6 cm /hr create peck discharge of

A : 0.04 m^3/sec

B : 0.40 m^3/sec

C : 4.00 m^3/sec

D : 40.0 m^3/sec

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Q:) The head loss due to sudden expansion is expressed by

A : $\frac{v_1^2 - v_2^2}{2g}$

B : $\left(\frac{v_1 - v_2}{2g} \right)^2$

C : $\frac{(v_1 - v_2)^2}{g}$

D : $\frac{(v_1 - v_2)^2}{2g}$

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