

Q :) Select the determinate structure from the following. [DMRC 2020]

(a): Fixed beams

(b): Two-hinged arches

(c): Continuous beams

(d): Cantilever beams



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Q :) Select the option that represents the correct matching of items from List A and B. [DMRC 2020]

List – A	List – B
1. Manometer	(a) Velocity of flow in a pipe
2. Pitot tube	(b) Discharge through small canal
3. Venturimetre	(c) Pressure at point in pipe
4. Notches	(d) Discharge through pipe

(a): 1-c;2-d;3-a;4-b

(b): 1-c;2-a;3-d;4-b

(c): 1-d;2-c;3-b;4-d

(d): 1-b;2-d;3-a;4-c

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Q :) Bernoulli's equation is NOT applicable for: [LMRC JE 2020]

(a) Flow of ideal fluid with zero viscosity

(b) Incompressible flow

(c) One dimensional flow

(d) Rotational flow



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Q :) The design strength of member under axial tension is given by _____ . [LMRC AE 2020]

(a) $T_{dg} = A_g \times f_y$

(b) $T_{dg} = A_g \times f_y \times \gamma_{mo}$

(c) $T_{dg} = A_g \times f_y / \gamma_{mo}$

(d) $T_{dg} = A_g / f_y \times \gamma_{mo}$



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Q :) The velocity component of a two-dimensional fluid flow is given by $v = Axy$. The unknown velocity component such that continuity equation is satisfied is equal to: [LMRC AE 2020]

- (a) $0.5 Ax^2 + f(y)$
- (b) $-Ay^2 /x + f(y)$
- (c) $-0.5 Ay/x + f(y)$
- (d) $Ay^2/x + f(y)$



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Q :) If the pump head is 75 m, discharge is $0.464 \text{ m}^3/\text{s}$ and the motor speed is 1440 rpm at rated condition, the specific speed of the pump is about

[JPSE 2020]

- (a) 4
- (b) 26
- (c) 38
- (d) 1440



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Q :) Water flows through a 100 mm diameter pipe with a velocity of 0.015 m/sec. If the kinematic viscosity of water is 1.13×10^{-6} m²/sec, the friction factor of the pipe material is [JPSE 2020]

- (a) 0.0015
- (b) 0.032
- (c) 0.037
- (d) 0.048



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Q :) The unit of inertia of an area is [ISRO 2020]

(a): Kg/m

(b): Kg/sq.m

(c): m^4

(d): m^3



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Q :) A steel rod of 30 mm diameter and 3 m length is subjected to an axial pull of 50 kN. If $E = 200 \times 10^9$ pa, the elongation of the rod will be

[ISRO 2020]

(a): 2.225 mm

(b): 1.062 mm

(c): 0.525 mm

(d): 3.152 mm



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Q :) I.S. Code of practice for design of raft foundation is: [UPPCL 2020]

(a): IS 456: 2000

(b): IS 2950: 1981

(c): IS 1904: 1986

(d): IS 1080: 1985



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Q :) The shortest distance from the root of the fillet weld to the face of the weld is called as: [UPPCL 2020]

(a): Effective length

(b): Effective Throat thickness

(c): Effective area

(d): Effective depth



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Q :) How much is the Carbon Content (%) in hard-steel?

[MPSC PAPER-I 2019]

- (a) 0.5 – 0.8
- (b) 0.8 – 1.5
- (c) 0.3 – 0.5
- (d) 0.15 – 0.3



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Q :) The volume of groundwater extracted by gravity drainage from a saturated water bearing material is known as [MPSC PAPER- II 2019]

- (a) Field capacity
- (b) Specific retention
- (c) Specific capacity
- (d) Yield



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Q :) The distance from the centre of a pumped well to the point, where the drawdown is zero or is inappreciable, is known as

[MPSC PAPER- II 2019]

- (a) Drawdown
- (b) Cone of pressure
- (c) Radius of influence
- (d) Piezometric surface

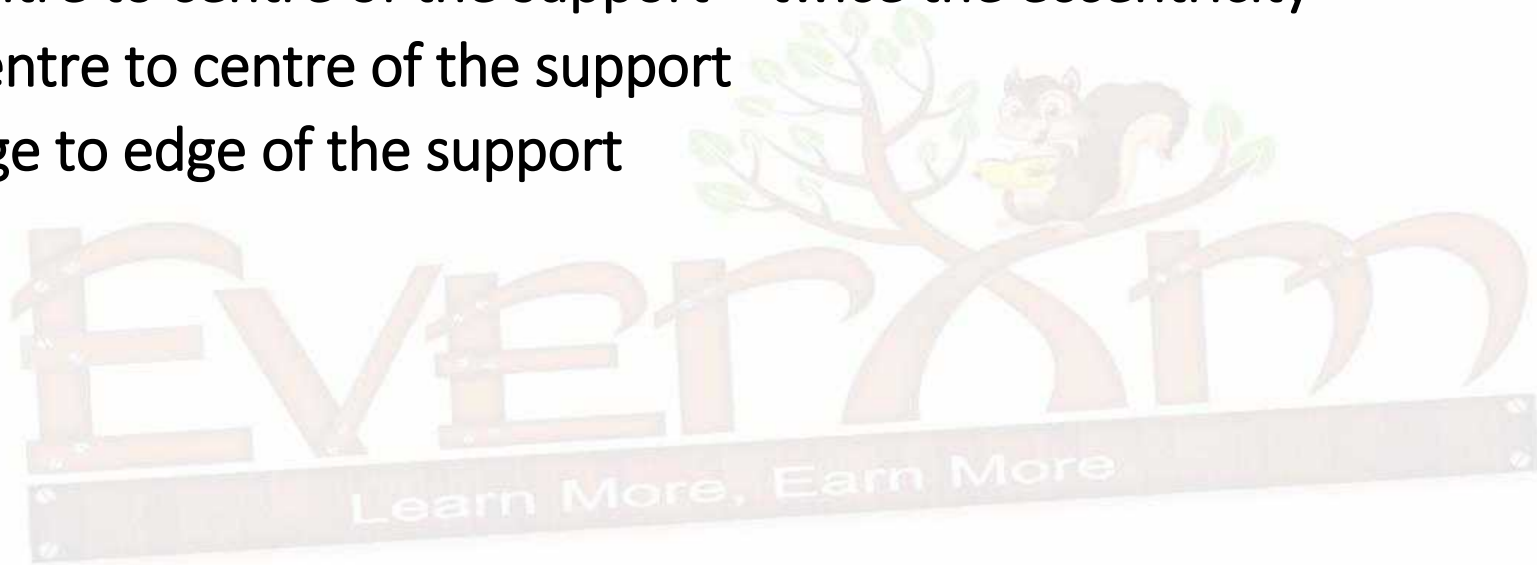


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Q :) According to IS 800, in case of structural steel design, the span length of a flexural member in a continuous frame system shall be taken as the distance between: [CIL 2016-17]

- (a): Diametrically opposite ends of the support
- (b): Centre to centre of the support + twice the eccentricity
- (c): Centre to centre of the support
- (d): Edge to edge of the support



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Q :) Which of the following equals the number of unknown to be determined, in stiffness method of structural analysis? [CIL 2016-17]

(a): Kinetic indeterminacy

(b): Static indeterminacy

(c): Kinematic indeterminacy

(d): Sum of static and kinematic indeterminacy



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