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Q:) The resultant force on a sluice gate, $F = \underline{\hspace{2cm}}$ where, $F_1 =$ Pressure force on the upstream side of sluice gate $F_2 =$ Pressure force on the downstream side of the sluice gate. [DSSSB 2019]

A : F_1/F_2

B : $F_1.F_2$

C : $F_1 \times F_2$

D : $F_1 + F_2$



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Q:) In ribbed slab system, the thickness of floor slab generally varies from [DSSSB 2019]

A : 100 mm - 200 mm

B : 50 mm - 100 mm

C : 10 mm - 30 mm

D : 150 mm - 250



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Q:) Who published the moment distribution method? [DSSSB 2019]

A : Castiglioni

B : Hardy cross

C : Bernoulli

D : Euler



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Q:) The horizontal distance from one support to another is called as _____ . [DSSSB 2019]

A : Span

B : Crown

C : Rise

D : Abutment



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Q:) If Yield point does not exist, the working stress is taken as that of a
_____ proof stress. [DSSSB 2019]

A : 0.1

B : 0.2

C : 0.3

D : 0.15



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Q:) Strain energy method is also called as _____. [DSSSB 2019]

A : Virtual work load method

B : Real work method

C : Castiglioni's method

D : Euler's method



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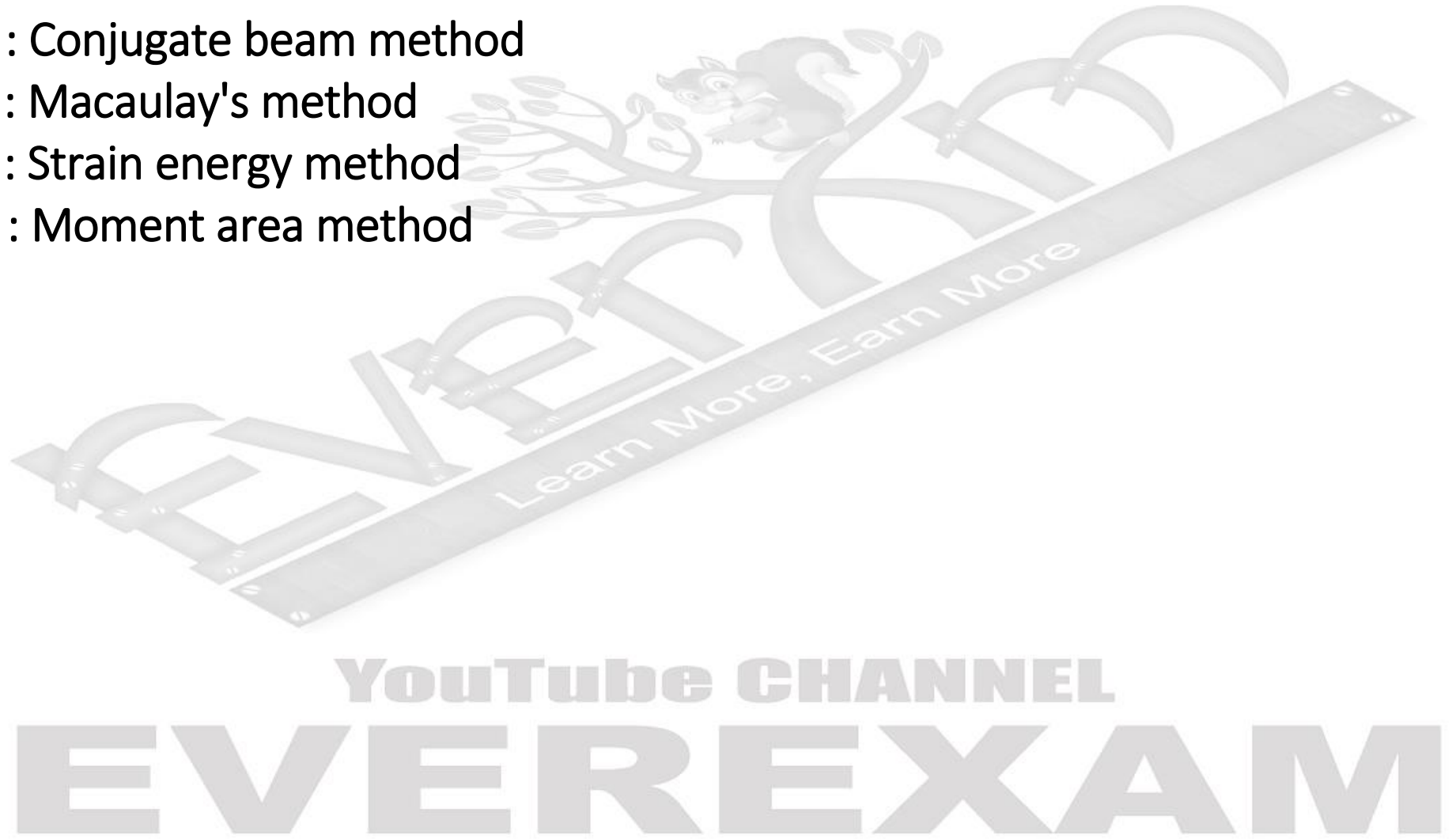
Q:) Which method uses the theorem which states that the change in the slope between two points on a straight member under flexure is equal to the area of M/EI diagram between those two points? [DSSSB 2019]

A : Conjugate beam method

B : Macaulay's method

C : Strain energy method

D : Moment area method



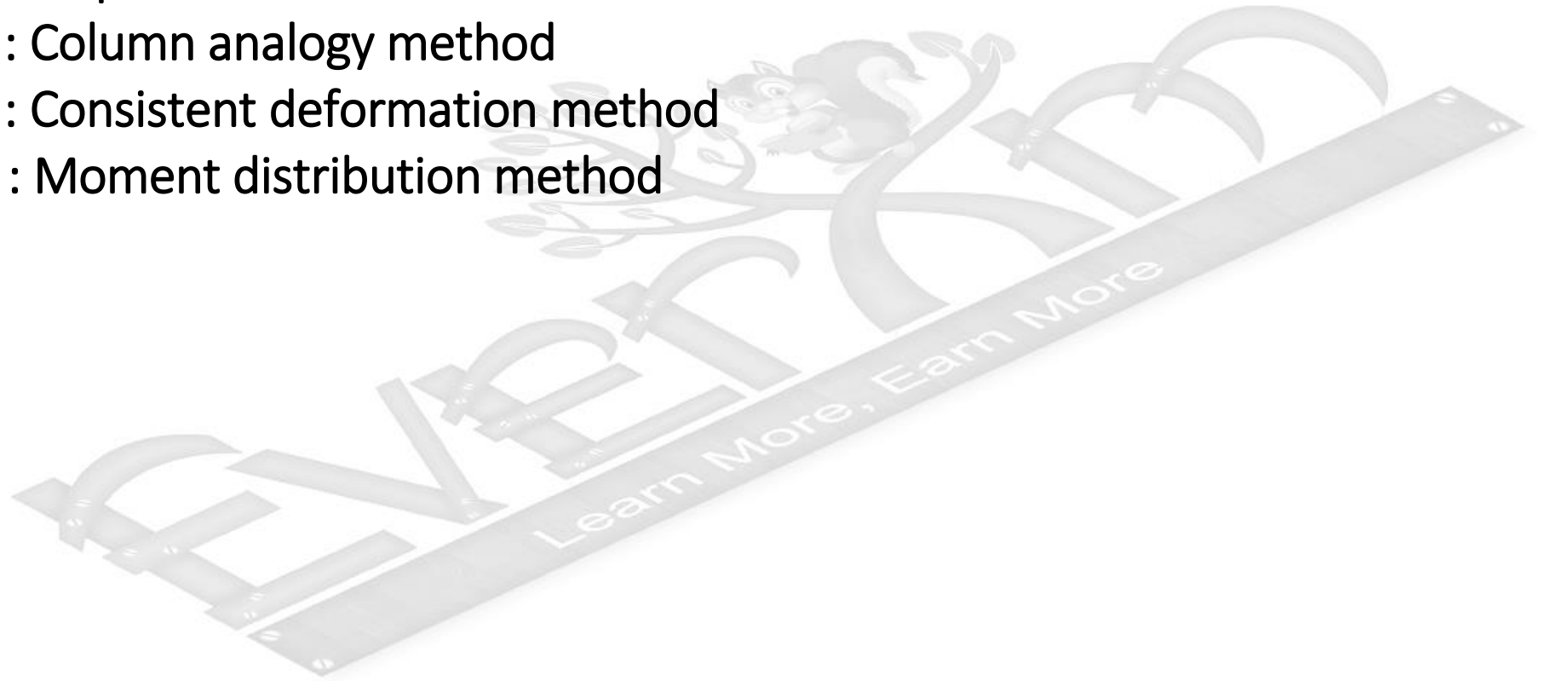
Q:) Which was the first method developed to analyze the indeterminate structure? [DSSSB 2019]

A : Slope deflection method

B : Column analogy method

C : Consistent deformation method

D : Moment distribution method



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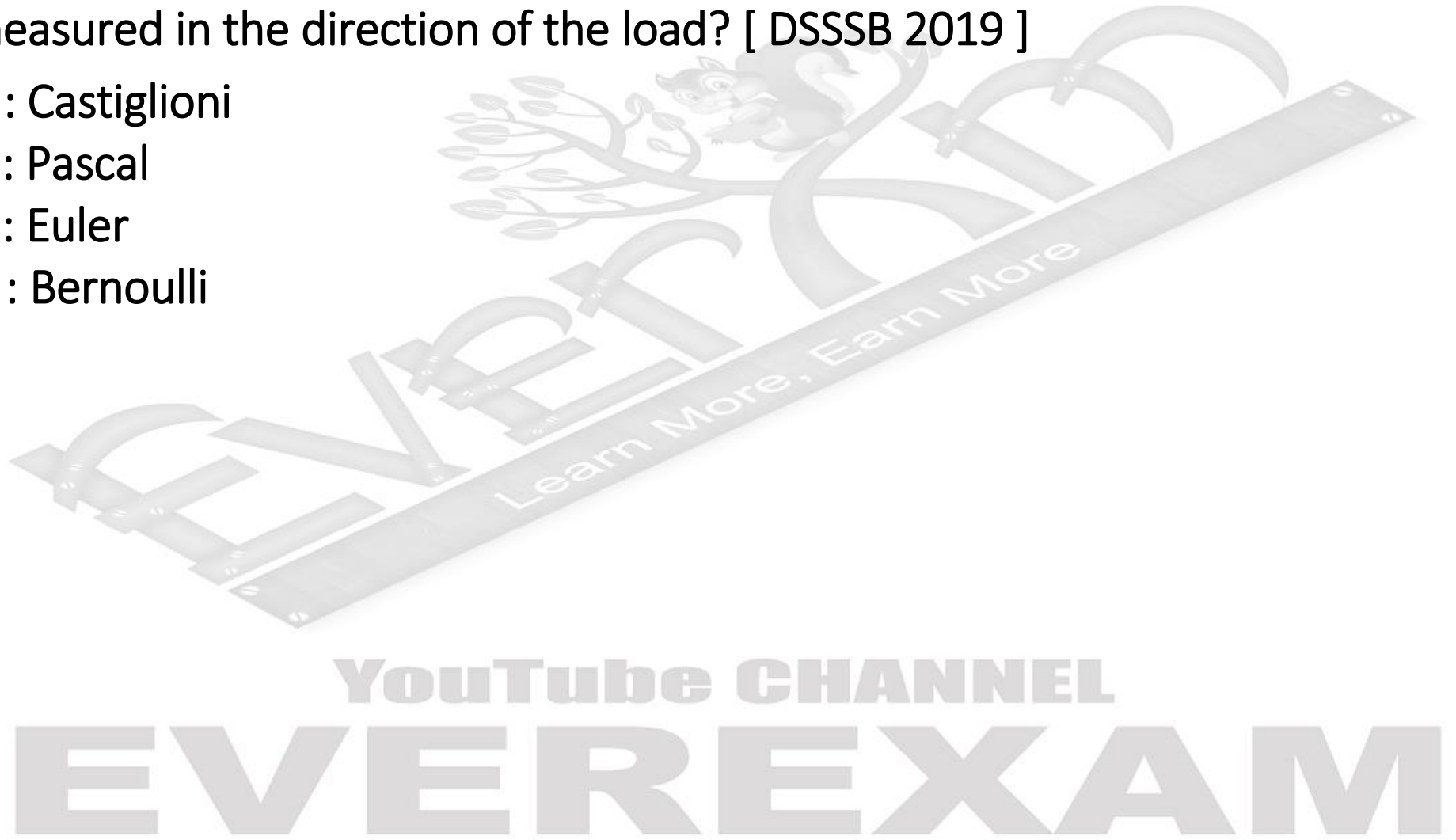
Q:) Who published the theorem which states a linearly elastic structure partial derivate of the strain energy with respect to a load is equal to the deflection of the point where the load is acting, the deflection being measured in the direction of the load? [DSSSB 2019]

A : Castiglioni

B : Pascal

C : Euler

D : Bernoulli



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Q:) Cumulative frequency curve that shows the percent of time specified discharge were equated or exceeded during a given period is known as _____. [DSSSB 2019]

A : Hydrograph

B : Mass duration curve

C : Power duration curve

D : Flow duration curve

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Q:) Hydraulic jump is said to be oscillating jump if its Froude number is _____. [DSSSB 2019]

A : Between 1.7 to 2.5

B : Between 4.5 to 9

C : Between 2.5 to 4.5

D : Equal to 1

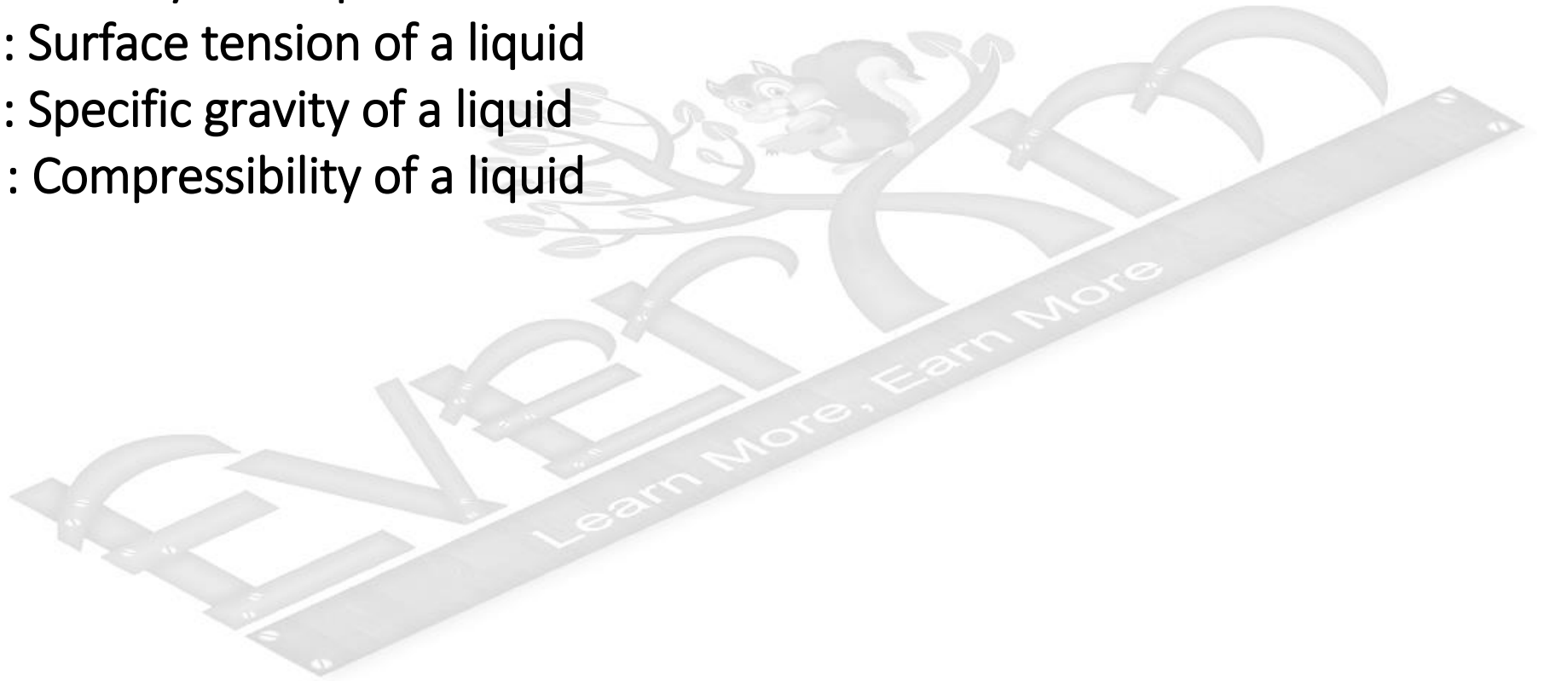


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Q:) The ratio of specific weight of a liquid to specific weight of pure water at standard temperature is called. [DSSSB 2019]

- A : Density of a liquid
- B : Surface tension of a liquid
- C : Specific gravity of a liquid
- D : Compressibility of a liquid



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Q:) The process in which the impeller of a centrifugal pump will get fully submerged in a liquid without any air trap inside is called _____
[DSSSB 2019]

- A : Pumping
- B : Gauging
- C : Primping
- D : Lifting



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Q:) In a frame structure which of the following transfer the load to column?

[DSSSB 2019]

A : Roof

B : Foundation

C : Slabs

D : Beams



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Q:) The variation in the volume of a liquid with the variation of pressure is calls. [DSSSB 2019]

A : Capillary

B : Compressibility

C : Surface tension

D : Viscosity



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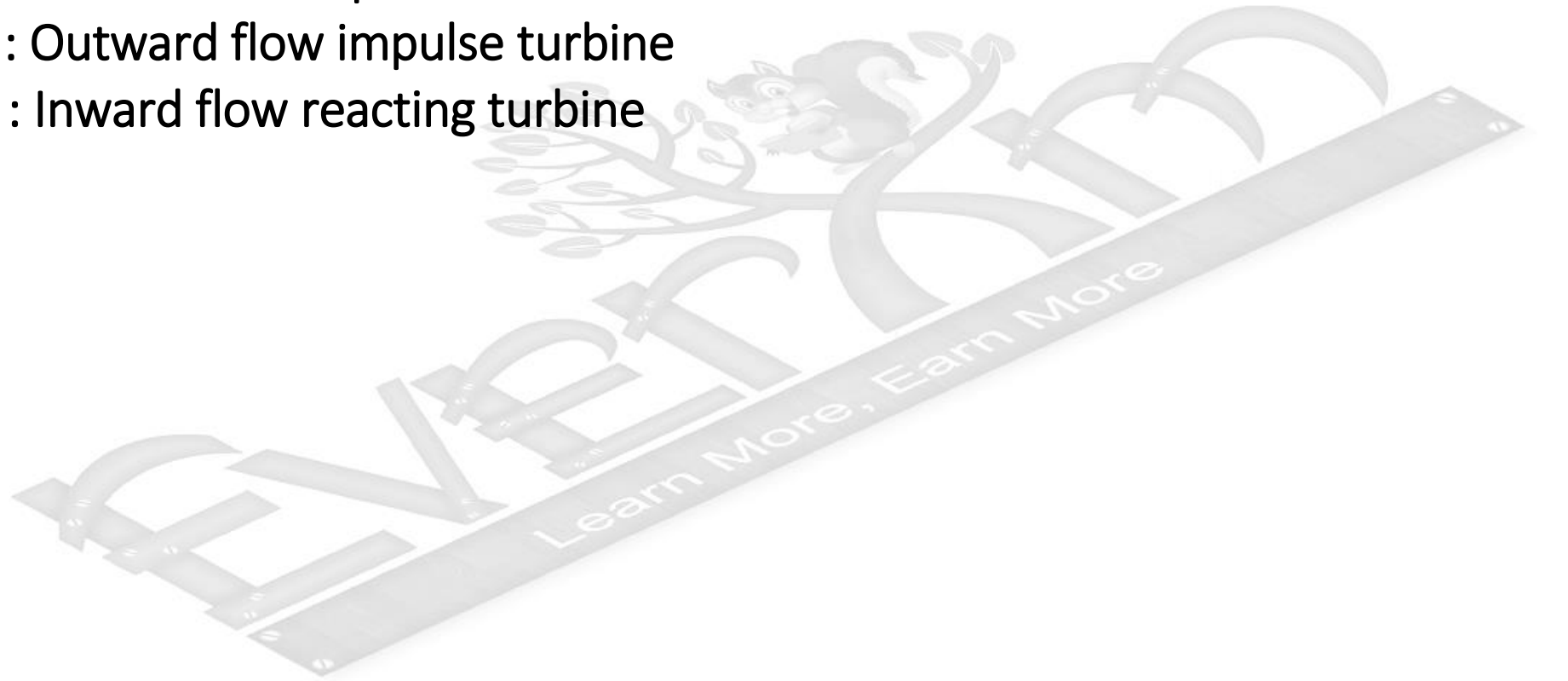
Q:) A pelton wheel is a/an: [DSSSB 2019]

A : Tangential flow impulse turbine

B : Inward flow impulse turbine

C : Outward flow impulse turbine

D : Inward flow reacting turbine



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Q:) Hooke's law holds good up to: [DSSSB 2019]

A : Yield point

B : plastic limit

C : breaking point

D : Elastic limit



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Q:) The degree of static intricacy of a rigid - jointed plane frame having 15 members, 3 reaction components and 14 joints is: [DSSSB 2019]

A : 1.3

B : 2.6

C : 3.2

D : 4.8



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Q:) The fixed support in the real beam becomes a in the conjugate beam. [DSSSB 2019]

A : Hinged support

B : fixed support

C : Free end

D : Roller support

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