

Q. what is the major pollutant present in photochemical smog?

1. Nitrogen oxide
2. carbon dioxide
3. Hydrocarbon
4. Sulphur dioxide

Q :) Which of the following is NOT a fully non-destructive testing of concrete?

A : Core

B : Rebound hammer

C : Profometer for rebar

D : Ultrasonic pulse velocity



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**EVEREXAM**

Q :) The fertility of soil starts getting badly impacted when pH of soil exceeds:

- A : 13
- B : 10
- C : 11
- D : 9



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**EVEREXAM**

Q :) Which of the following is NOT a recognized failure type of soil as support beneath the foundations, depending upon the deformations associated with the load and the extent of development of failure surface?

- A : General shear
- B : Puching shear
- C : Local shear
- D : Bending



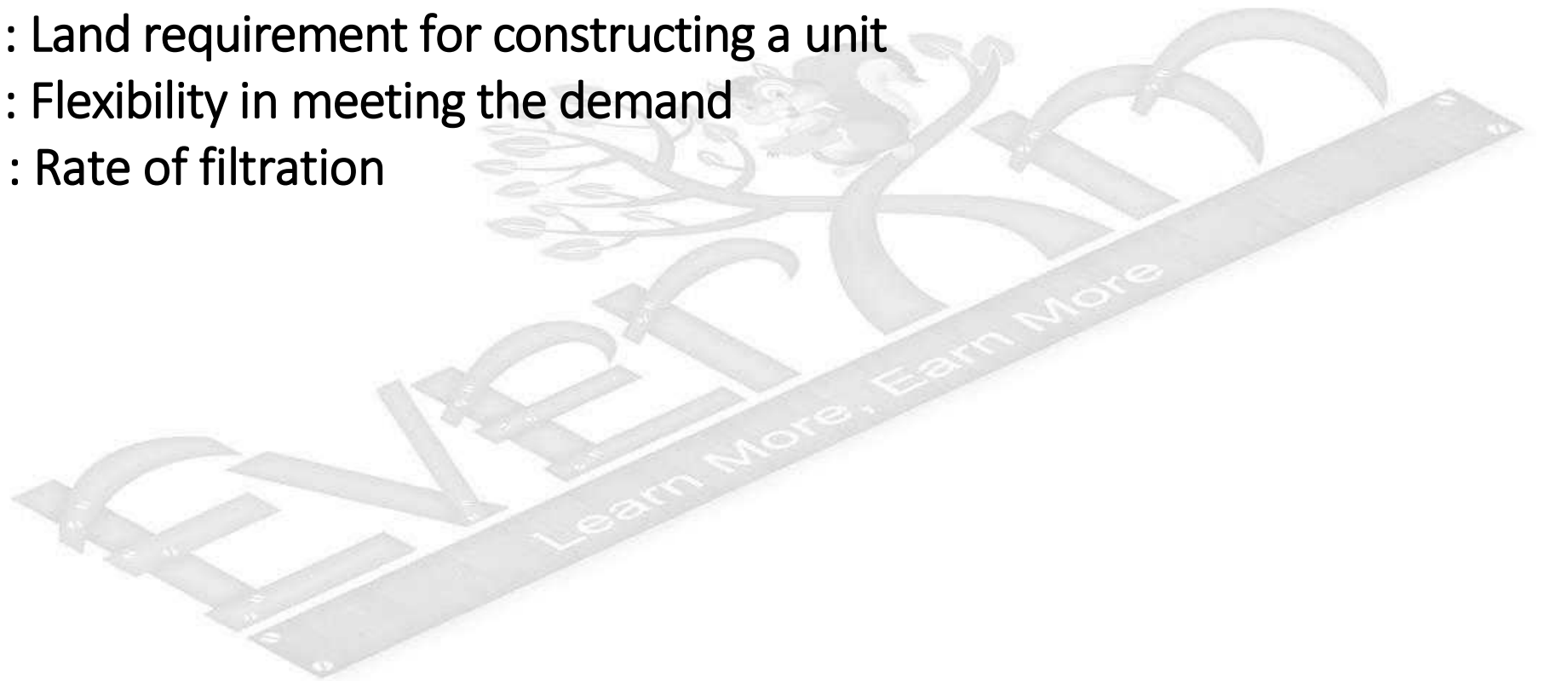
Q :) On which of the following parameters are the slow sand filters better than rapid sand filters?

A : Ease of construction

B : Land requirement for constructing a unit

C : Flexibility in meeting the demand

D : Rate of filtration



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**EVEREXAM**

Q :) Which of the following spillway gates cannot be seen from a distance, when lowered?

A : Sliding gate

B : USBR drum gate

C : Tainter gate

D : Roller gate



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**EVEREXAM**

Q :) If the undisturbed strength of a soil sample is 50 units while the remoulded strength is 20 units then what is the sensitivity of this soil?

A : 1.25

B : 0.4

C : 2.5

D : 2



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**EVEREXAM**

Q :) Which of the following is an expansive soil?

A : Dune sand

B : Black cotton soil

C : Loess

D : Lateritic soil



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**EVEREXAM**



Q :) Which of the following is NOT a Rabi crop?

A : Sesame

B : Onion

C : Barely

D : Groundnut



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**EVEREXAM**

Q :) Which of the following curves is usually NOT adopted for transitioning in horizontal alignment?

A : Reverse

B : Lemniscate

C : Spiral

D : Cubic parabola



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**EVEREXAM**

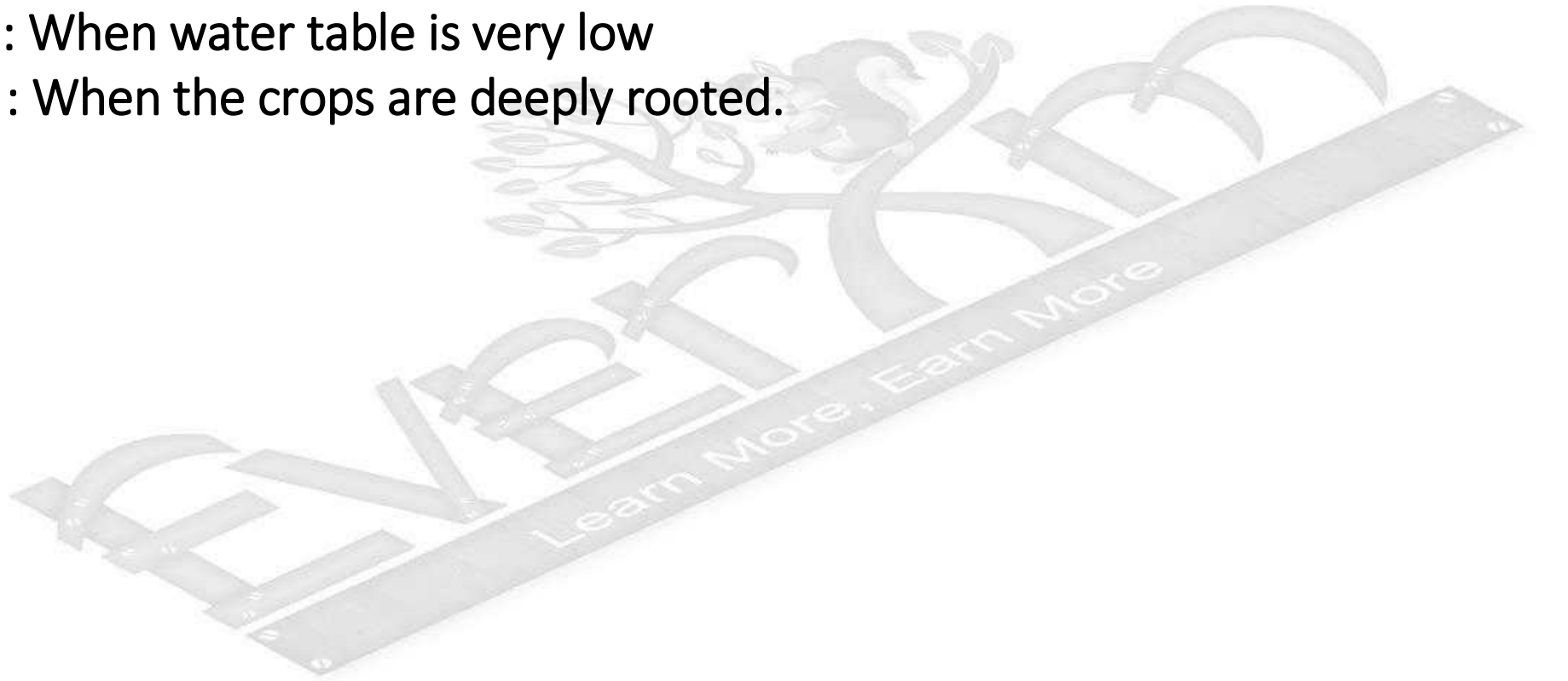
Q :) Which of the following soil type is suitable for sprinkle irrigation?

A : When land is steep and soil easily eradale B

: When soil of low permeability is used

C : When water table is very low

D : When the crops are deeply rooted.



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**EVEREXAM**

Q :) The net intensity of loading which the foundation will carry without undergoing settlement in excess or the permissible value for the structure under consideration but not exceeding net safe bearing capacity is termed as:

- A : Net loading intensity
- B Allowable bearing capacity
- C : Safe bearing capacity
- D : Ultimate bearing capacity

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**EVEREXAM**

Q :) Which of the following is a reason for using pile caps over a group of piles?

A : For spreading vertical and horizontal loadas to all piles

B : For protecting piles from displacing laterally

C : For protecting piles from rising up

D : For enhancing the load bearing capacity of each pile

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EVEREXAM

Q :) What value of flow is usually considered for designing sewage treatment units?

- A : Average
- B : Harmonic mean
- C : Maximum
- D : Minimum



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**EVEREXAM**

Q :) Which of the following assumptions is wrongly stated in regard to the Rankine's theory or earth pressure?

A : The back of the wall is not smooth

B : The soil mass is semi-infinite and homogenous

C : The ground surface is plane

D : The retaining wall yields about the base.

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Q :) Gravity dams are designed with the considered of main overturning force as that coming from

- A : Dead weight
- B : Water pressure
- C : Wind pressure
- D : Uplift pressure



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**EVEREXAM**



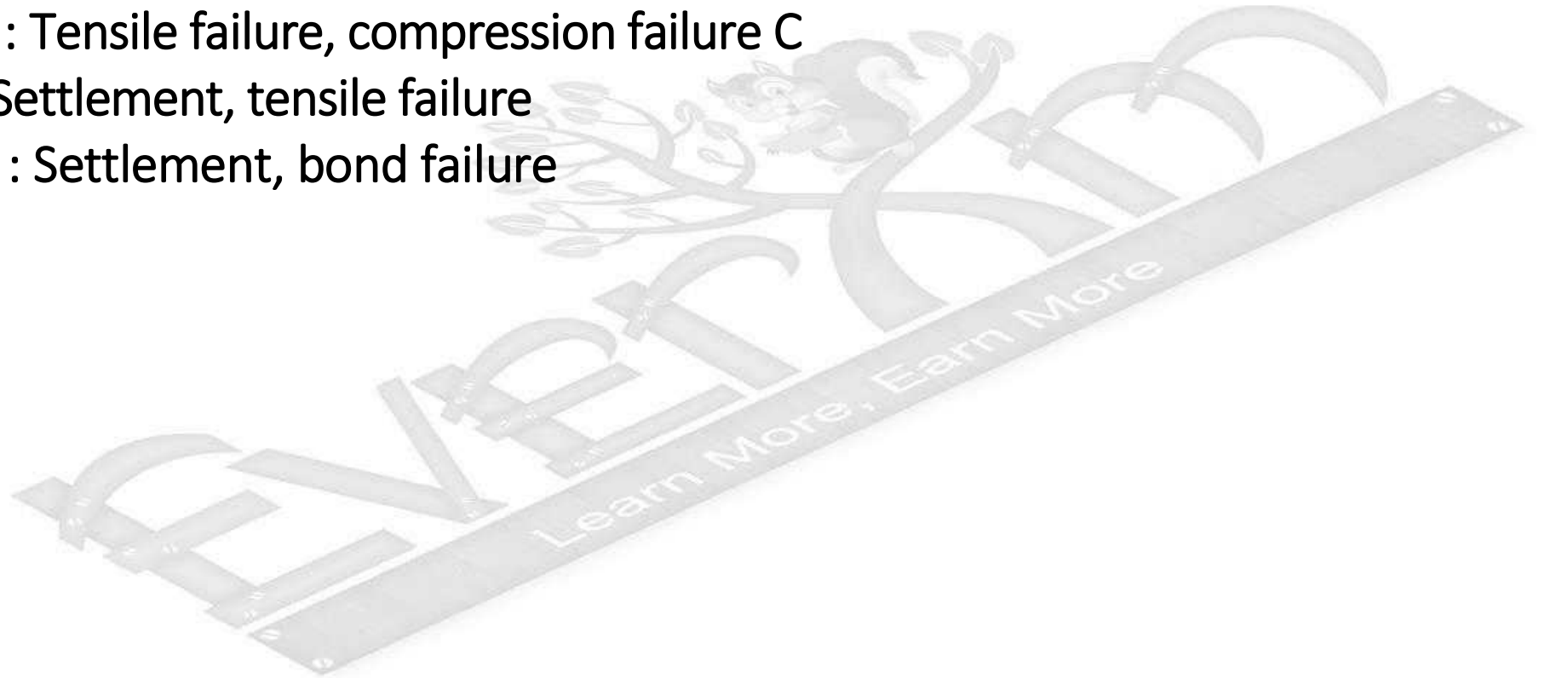
Q :) Which of the settlement combinations of factors is used for determining allowable bearing capacity of a foundations?

A : Settlement, shear failure

B : Tensile failure, compression failure C

: Settlement, tensile failure

D : Settlement, bond failure



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**EVEREXAM**

Q :) Usually what is the maximum permissible LOS Angeles abrasion value (%) for dense bituminous macadam?

A : 45

B : 25

C : 55

D : 35



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**EVEREXAM**

Q :) Which of the following roller types is the most suitable for compacting fatty clay in field?

- A : Sheepfoot
- B : Rubber tyred
- C : Tandem
- D : Vibratory



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**EVEREXAM**

Q :) While designing a pile, negative skin friction is considered when the pile is constructed in:

- A : Dense fine sand
- B : Fill material
- C : Black cotton soil
- D : Dense coarse sand



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**EVEREXAM**

Q :) What will be the load carrying capacity (kN) of a group of 6 piles, if the individual load carrying capacity is 150 (kN) and group efficiency is 75%?

A : 621

B : 542

C : 675

D : 500



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**EVEREXAM**

Q :) Which of the following is NOT an assumptions in Terzaghi's one-dimensional consolidation theory?

A : Darcy's law is applicable.

B : Soil is laterally confined

C : Soil is heterogeneous

D : Soil is fully saturated.

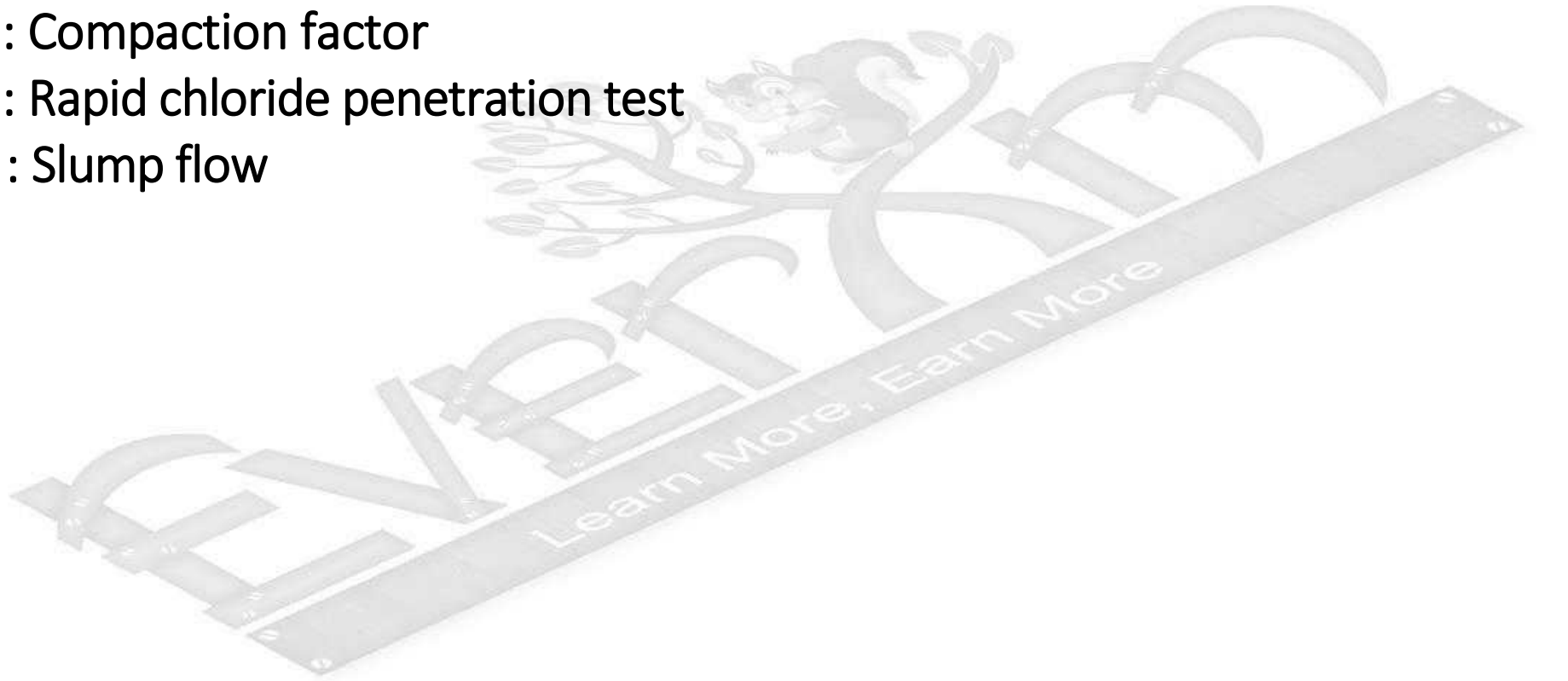


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**EVEREXAM**

Q :) Which of the following is NOT a test for estimating the workability of fresh cement concrete?

- A : Kelly-ball test
- B : Compaction factor
- C : Rapid chloride penetration test
- D : Slump flow



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**EVEREXAM**

Q :) Which of the following is NOT a distress in cement concrete pavements?

A : Rutting B

: Spalling C :

Ravelling

D : Shrinkage cracking



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**EVEREXAM**



Q :) Which of the following is used in removing the dust particle from a gaseous medium using electrostatic forces?

A : Filter

B : Cyclone scrubber

C : Dust collector

D : Electrostatic precipitator



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