



# CIVIL ENGINEERING QUESTIONS PRACTICE

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Q : 1) In theodolite work, error in manipulation comes under \_\_\_\_\_

[ Punjab JE pspcl ]

wind temp

2019 Dec

A : Both natural and personal error

B : Instrumental error

C : Natural error

D : Personal error

writing

beliefs, plans, actions

work

manipulate

(mistake)

R.L = 100  
L (105)

Actual Value - Value indicated.

~~(D)~~

(D)

~~(D)~~

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Q : 2) The method of interpolation of contour which is extremely rough and is used for small [ Punjab JE pspcl ] Scale

- A : Direct method
- B : Arithmetic calculations
- C : Graphical method
- D : Estimation



Arithmetic method

tiresome, time consuming

Accurate

rough (uniformity)  $\propto$

Small scale

D

const. new position



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Q : 3) A 'Belite' is called as: [ Punjab JE pspcl ]

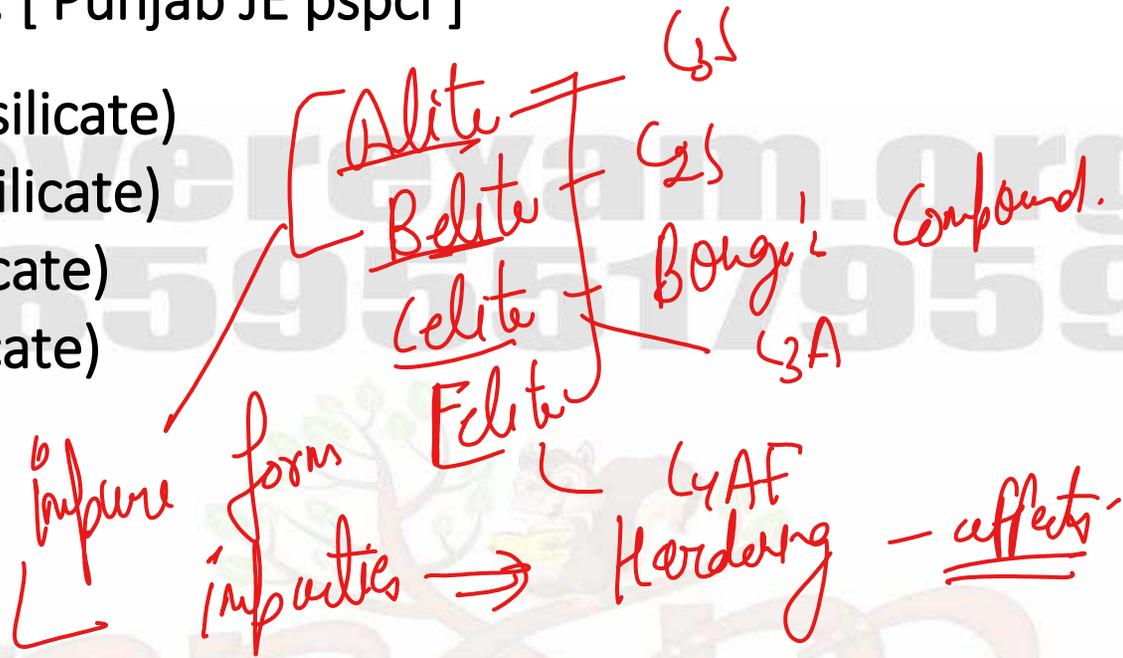
A : Impure  $C_3S$ (Tricalcium silicate)

~~B : Impure  $C_2S$ (Dicalcium silicate)~~

C : Pure  $C_3S$ (Tricalcium silicate)

D : Pure  $C_2S$ (Dicalcium silicate)

~~B~~



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Q : 4) The two most important operations to ensure the requirements of strength, impermeability and durability of hardened concrete in the actual structure are: [ Punjab JE pspcl ]

A : Finishing and curing

B : Mixing and batching

C : Placing and compacting

D : Mixing and placing

Concrete preparation

voids

Compaction

permeability

(St)

(voids)

5% std

placing (impermeable)

C

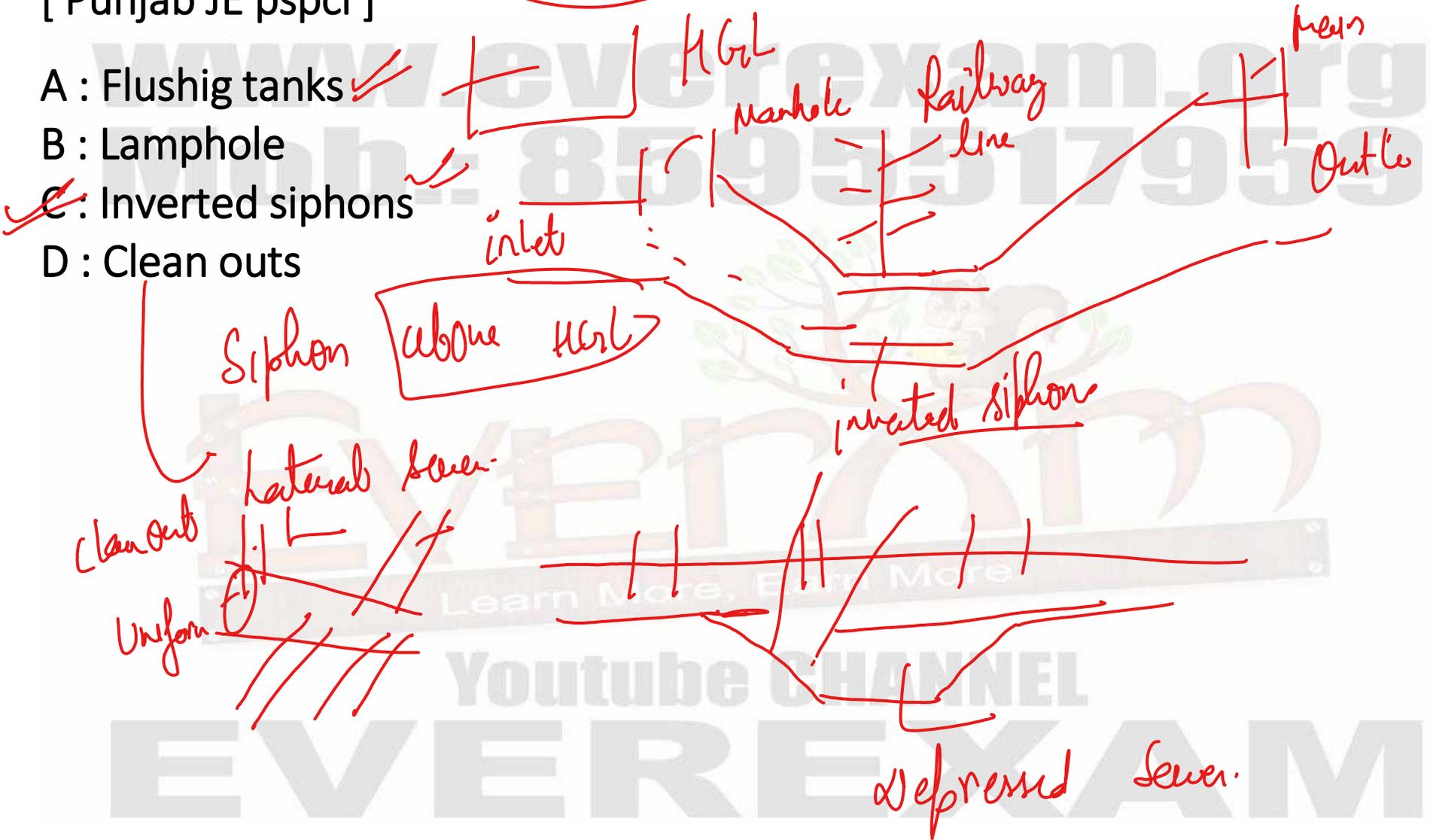
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Q : 5) When a sewer line dips below the hydraulic grade line, it is called:  
[ Punjab JE pspcl ]

- A : Flushig tanks ✓
- B : Lamphole
- ✓ C : Inverted siphons
- D : Clean outs



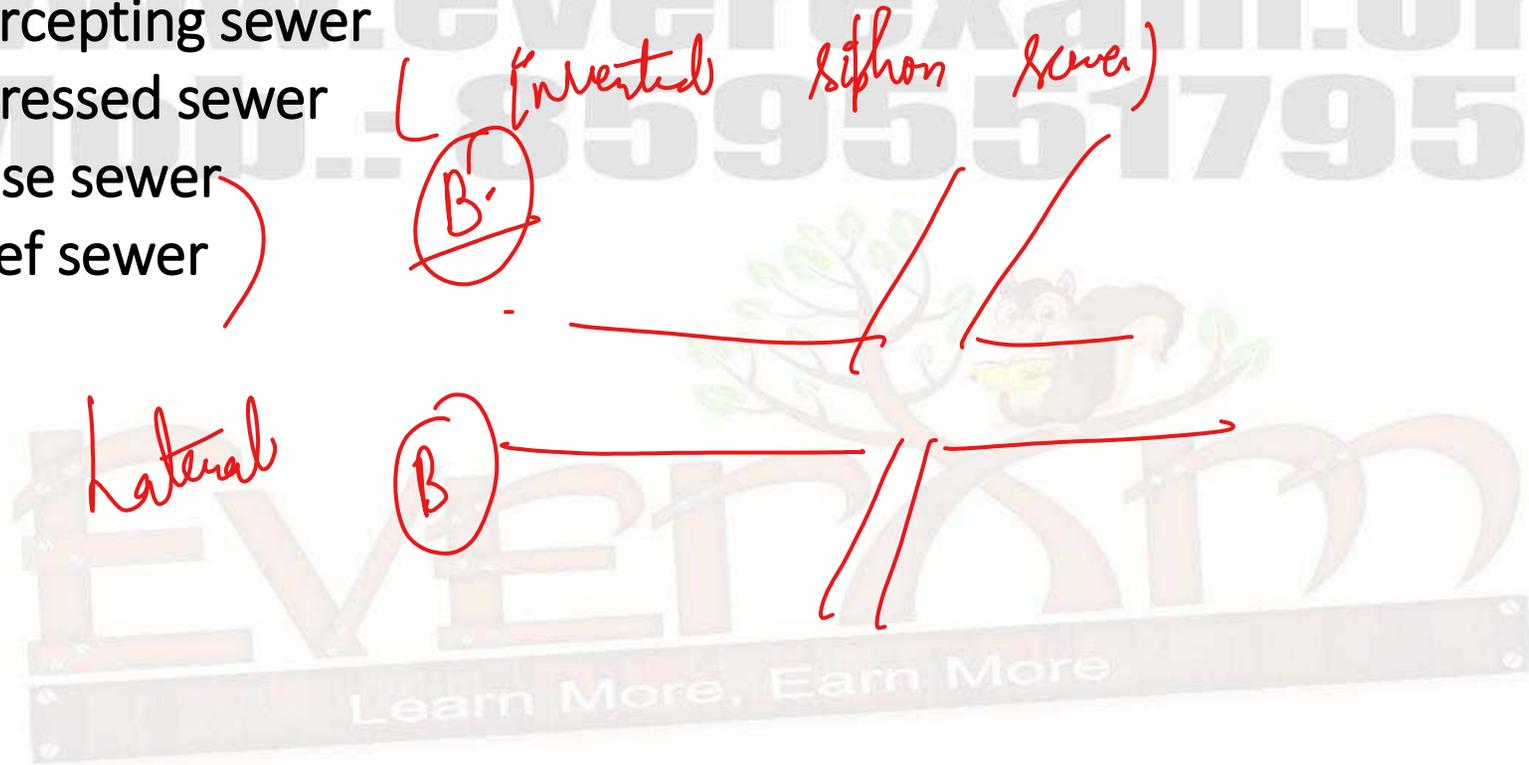
Q : 6) A section of sewer constructed lower than adjacent sections, to pass beneath and obstacle or obstructions is called as \_\_\_\_\_ [ Punjab JE pspcl ]

A : Intercepting sewer

B : Depressed sewer

C : House sewer

D : Relief sewer



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Q : 7) Paints which are highly reflecting and applied over radiator are:

[ Punjab JE pspcl ]

A : Asbestos paints

~~B : Bronze paints~~

C : Aluminium paints

D : Cellulose paints

Fire proofing

B

B

Quick drying

different  
Veneer

Ceramic, wood, metal

Car panel  
window

Silver sign  
frame

wooden work  
metal work

Painting

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Q : 8) Which type of notch is suitable for measuring low discharge and gives more accurate results ? [ Punjab JE pspcl ]

- A : Trapezoidal notch ✓
- B : Rectangular notch ✓
- C : Steeped notch ✓
- D : Triangular notch ✓

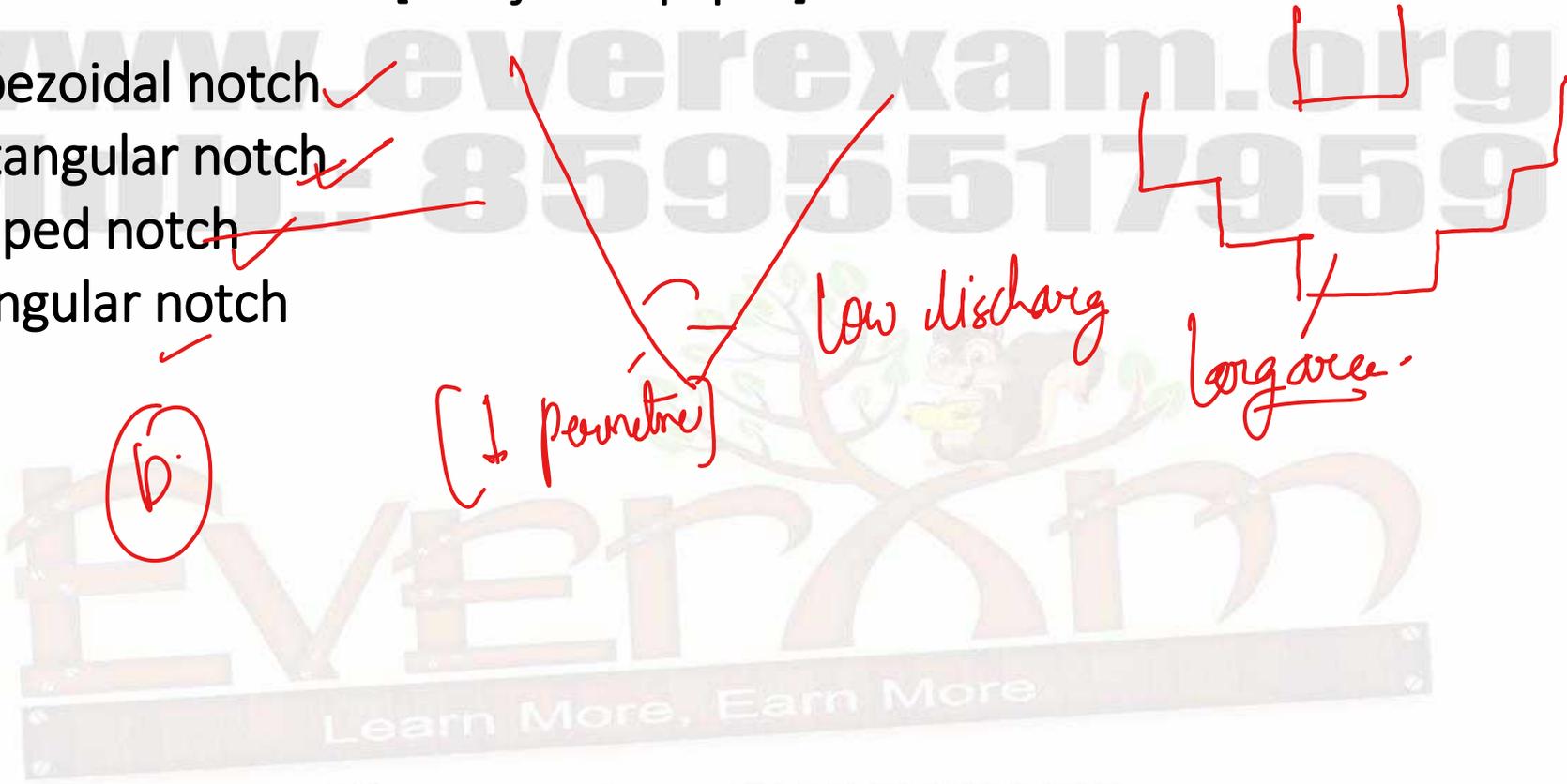
(D)

(D)

(↓ perimeter)

low discharge

longer



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Q : 9) The permanent adjustment of both prismatic and surveyor's compass includes: [ Punjab JE pspcl ]

A : Focusing the prism

B : Levelling

C : Centring

~~D : Adjustment of levels~~

*prismatic compass*  
*temporary adjustment*  
*Surveyor's compass - silt*

~~D~~

D



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Q : 10) Portland cement having less  $C_3A$  (Tricalcium aluminate) will have:  
[ Punjab JE pspcl ]

$C_3A$  ✓  
BHO

- A : Lesser ultimate strength, less generation of heat and less cracking
- B : Lesser ultimate strength less generation of heat and high cracking
- C : Higher ultimate strength, high generation of heat and less cracking
- ~~D~~ : Higher ultimate strength, less generation of heat and less cracking

(D)

(D)

tricalcium aluminate ↓  
flash set

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Q : 11) The ability of water saturated material to endure repeated freezing and thawing with considerable decrease of mechanical strength is known as: [ Punjab JE pspcl ]

liquid → freeze → expand → crack.

A : Water permeability

B : Hygroscopicity

C : Frost resistance

D : Weathering resistance



durability wear and tear



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Q : 12) The pipes which are manufactured from clays and shales of special quality and grades, using hot process, are known as [ Punjab JE pspcl ]

A : Asbestos cement sewers ( Chemical Res )

B : Plastic sewers

C : Brick sewer

D : Stoneware sewer

( p. 10 )

Stone ware sewer — Clays & shale  
↳ Temperature ( 1200°C )  
↳ Uses! → Carrying discharge (sewage)  
↳ drainage from sewer.

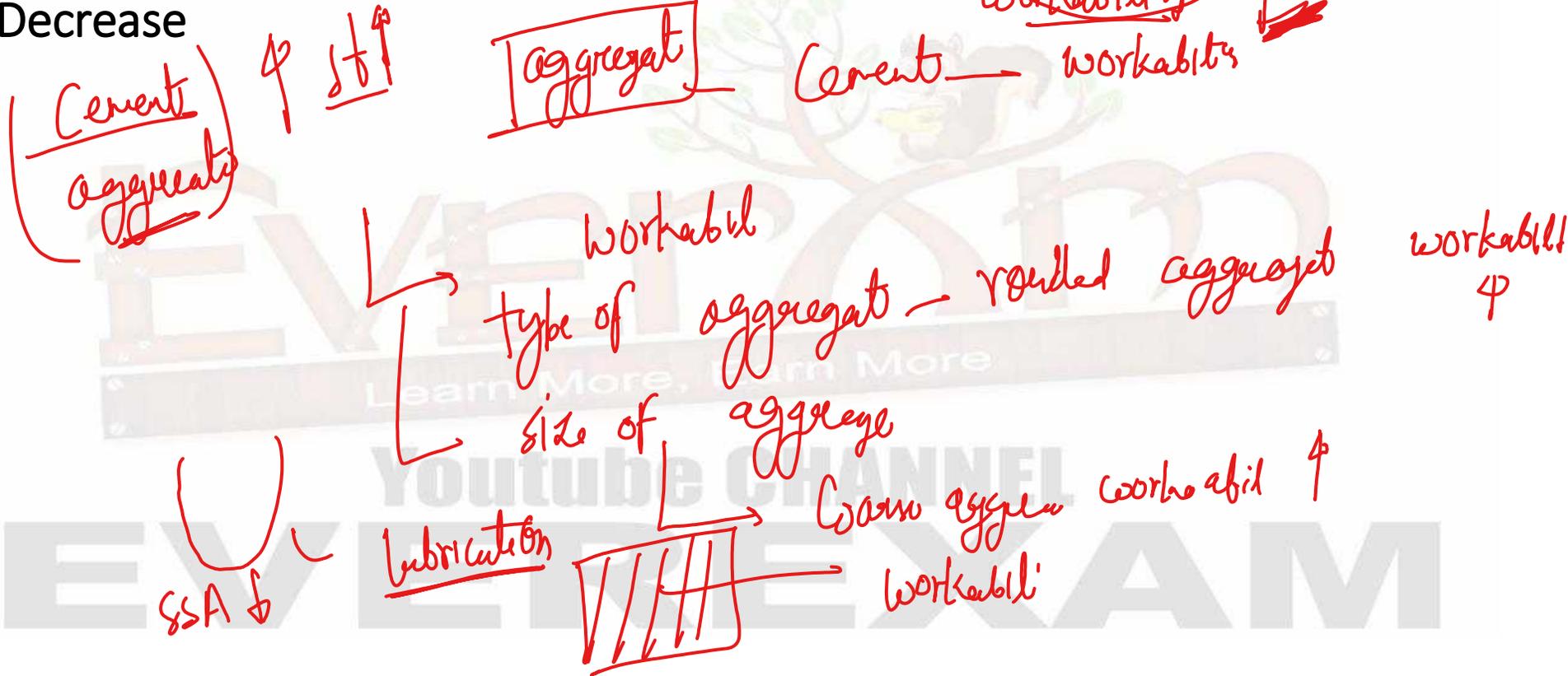
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Q : 13) For a constant water/cement ratio, as the aggregate/cement ratio is reduced, the workability will: [ Punjab JE pspcl ]

- ~~A~~: Increase (A)
- B : Increase or decrease
- C : Not change
- D : Decrease



Q : 14) When plies are bonded together with water soluble glues such as casein glue, \_\_\_\_\_ is [ Punjab JE pspcl ]

A : Star plywood ✓

B : interior grade plywood ✓

C : Diagonal plywood ✓

D : Exterior grade plywood

Special: (B)

Veenee Charate stics Exterior

plies veene

interior

temp strong effete temp effe  
casein wood

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Q : 15) The formula for pigment volume concentration (PVC) is:

[ Punjab JE pspcl ]

A :  $PVC = \frac{\text{volume of pigment } \epsilon \text{ paint}}{\text{Total volume of non-volatile vehicle constituents of the paint}}$

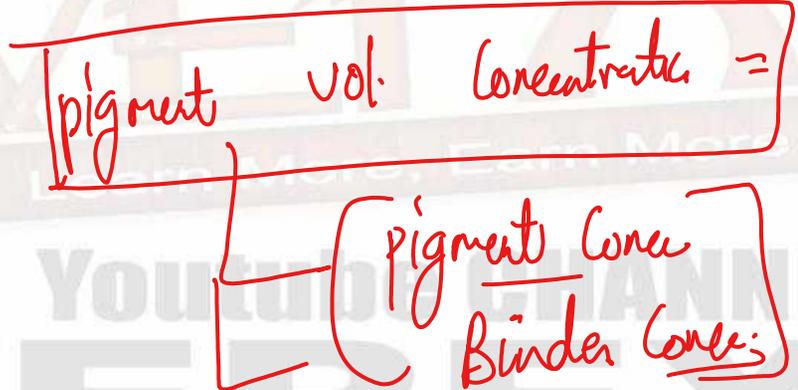
~~B~~ :  $PVC = \frac{\text{Volume of pigment } \epsilon \text{ paint}}{\text{Total volume of non-volatile constituents of the paint}}$

C :  $PVC = \frac{\text{Total volume of non-volatile vehicle constituents of the paint}}{\text{volume of pigment } \epsilon \text{ paint}}$

D :  $PVC = \frac{\text{Total volume of non-volatile constituents of the paint}}{\text{Volume of pigment } \epsilon \text{ paint}}$

liquor

B



$\frac{\text{Vol. of pigments}}{\text{Vol of total nonvolatile material input}}$

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Q : 16) The varnishes that are methylated spirit of wine as a solvent in which soft resins such as lac or shellac are dissolved is known as

[ Punjab JE pspcl ]

A : Spirit varnishes

B : Oil varnishes

C : Water varnishes

D : Turpentine varnishes

*Handwritten notes:*  
spirit varnish  
oil +  
oil paint  
cement paint

*Handwritten mark:* A

*Handwritten note:* thinner



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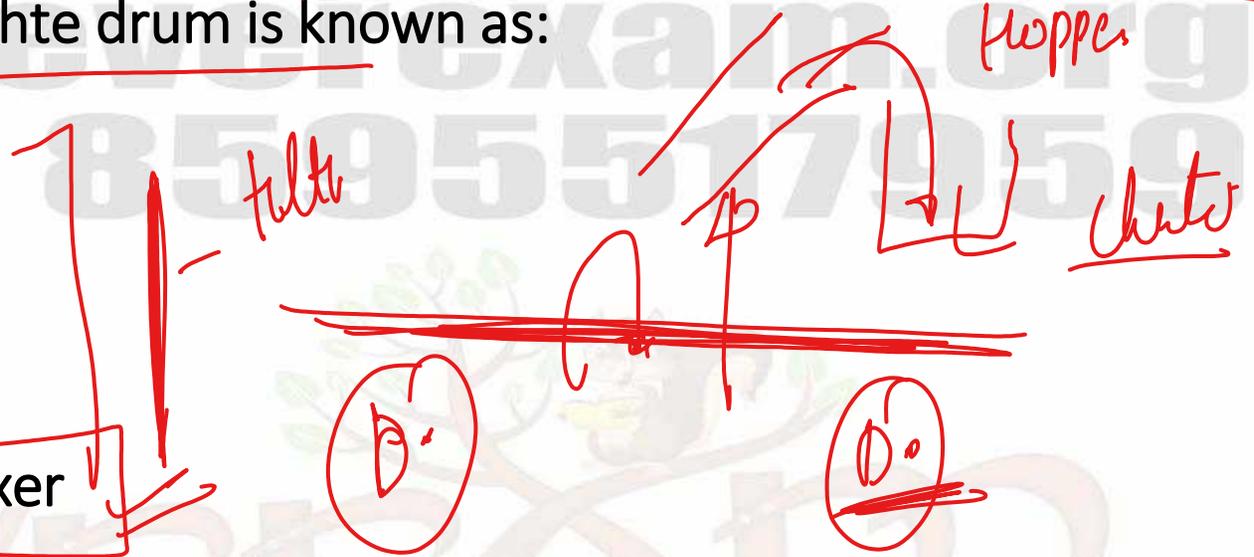
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Q : 17) A batch mixer in which the axis of the mixer is always horizontal and discharge takes place by inserting a chute into the drum or by reversing the direction or rotation of the drum is known as:

[ Punjab JE pspcl ]

- A : Pan-type mixer
- B : Tilting drum mixer
- C : Dual drum mixer
- D : Non-tilting drum mixer



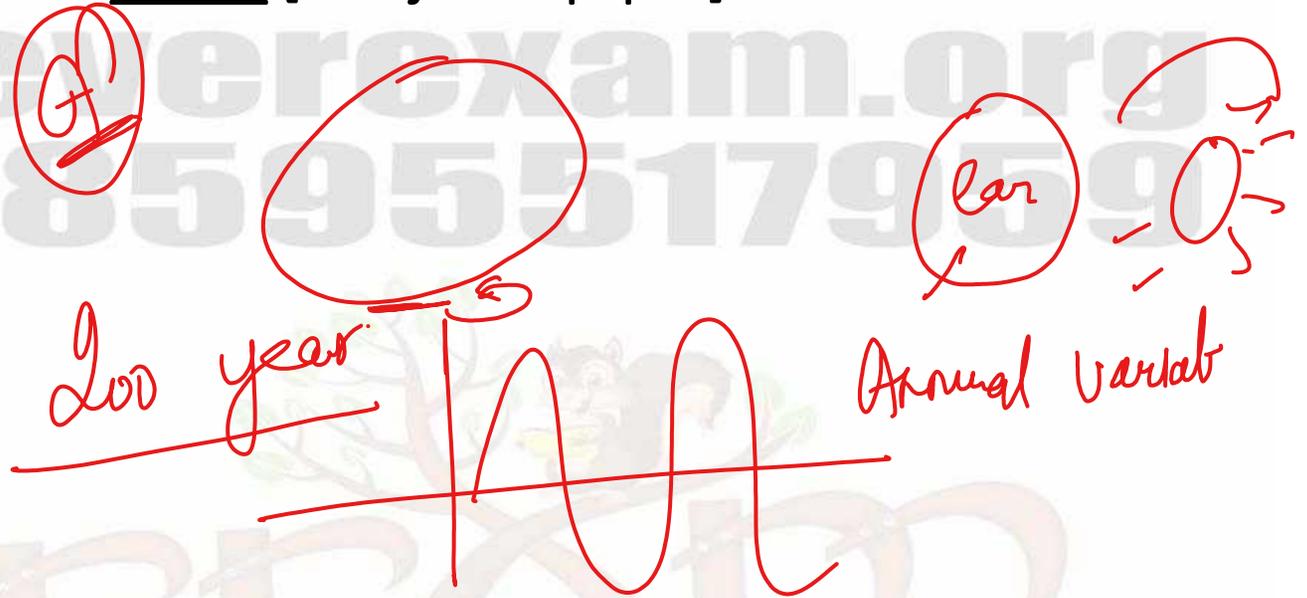
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Q : 18) The systematic departure of the declination from mean value during a period of 24 hrs is known as \_\_\_\_\_ [ Punjab JE pspcl ]

- ~~A : Diurnal variation~~
- B : Irregular variation
- C : Annual variation
- D : Secular variation



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Q : 19) The protozoal disease in the following is: [ Punjab JE pspcl ]

A : Cholera

~~B : Amoebic dysentery~~

~~C : Paratyphoid fever~~

D : Bacillary dysentery

*Amoebic dysentery*  
*Issues*

*Bo*

*Bacillio*



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Q : 20) The exposed vertical surface left on the sides of an opening after the door or window frame has been fitted in position are called as \_\_\_

[ Punjab JE pspcl ]

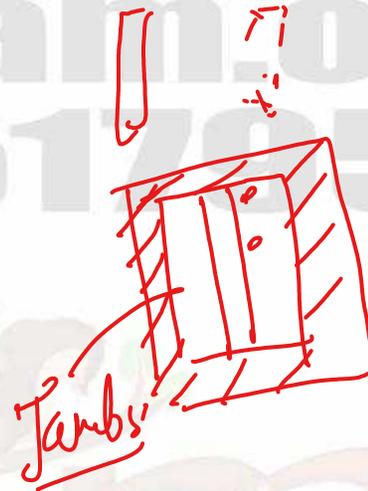
A : Perpend

B : Frog

C : Jambs

~~D : Reveals~~

*g*  
*Back*



*D<sup>n</sup>*

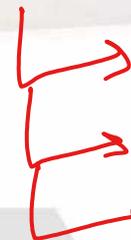
*15+*

*b<sup>o</sup>*

*00*  
*90*

*Lat-*

*Understanding*



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