

Q : 1 As per Indian standard code 1077, the burnt clay building bricks having compressive strength less than _____ N/mm² are known as common burnt clay

[APPSC 2016]

- A : 3.5**
- B : 12.5**
- C : 30**
- D : 40**

Q : 2 Maximum slenderness ratio allowed as per Indian standard for an unreinforced load bearing wall (using Portland Cement or Portland Pozzolana Cement in mortar) is

[APPSC 2016]

- A : 13**
- B : 20**
- C : 27**
- D : 35**

Q : 3 Cement used for railway sleepers is designated as

[APPSC 2016]

- A : 40-S**
- B : 53-S**
- C : 46-S**
- D : 48-S**

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Q : 4 If characteristic compressive strength at 28 days is 40 N/mm^2 and the standard deviation is 5 N/mm^2 , the target strength at 28 days for concrete mix proportioning

[APPSC 2016]

- A :** 40 N/mm^2
- B :** 45 N/mm^2
- C :** 43.25 N/mm^2
- D :** 48.25 N/mm^2

Q : 5 The important events located on the activities in a bar chart are known as

[APPSC 2016]

- A :** Key events
- B :** Key stones
- C :** Milestone
- D :** Key points

Q : 6 PERT stand for

[APPSC 2016]

- A :** Programme evaluation and research technique
- B :** Programme examination and review technique
- C :** Programme examination and research technique
- D :** Programme evaluation and review technique.

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Q : 7 The difference b/w the latest allowable time and earliest expected time an event is known as

[APPSC 2016]

A : Float

B : Normal Deviate

C : Free float

D : Slack

Q : 8 With the increase of time, the direct costs of the project

[APPSC 2016]

A : Increase

B : Decrease

C : Remain constant

D : Decrease and then increase

Q : 9 Resources smoothing will be adopted when

[APPSC 2016]

A : Resources are unlimited

B : Resources are limited

C : Resources are constant

D : In all the cases

Q : 10 For irrigation is not suitable to

[APPSC 2016]

A : Can be used for all soils and for all crops

B : Can be used for all soils except fine textured soils

C : Can be used for all soils is some precautions are taken

D : In not used for any irrigation

Q : 11 In connection line from water main to building, goose-neck us provided to

[APPSC 2016]

A : Quickly open or stop the flow to building

B : Avoid stresses and strain of the joint due to temperature variations and vibrations

C : Detect leakage in pipe line

D : To provide additional connections in future.

Q : 12 The sum of specific yield and specific retention is equal to

[APPSC 2016]

A : Porosity

B : Permeability coefficient

C : Storage coefficient

D : Saturation percentage.

Q : 13 In sands, during earthquakes, instantaneous pore pressure are likely to develop leading to sudden and total loss of shearing strength. This phenomenon is known as

[APPSC 2016]

- A :** Quicksand
- B :** Liquefaction
- C :** Damping
- D :** Scouring

Q : 14 It is a common practice to design a highway to accomodate the traffic volume corresponding to

[APPSC 2016]

- A :** 30th hour
- B :** Peak hour
- C :** None
- D :** 15- min peak period

Q : 15 The RL of the floor in a building is 100.00 m and the staff reading on the floor is 1.40 m. If the reading on the staff when held inverted with bottom touching the T-beam of the slab is 3.60 m, then the height of the T-beam bottom above the floor is equal to

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[APPSC 2016]

- | | |
|-------------------|-------------------|
| A : 2.20 m | B : 2.50 m |
| C : 5 m | D : 95 m |

Q : 16 The gradient which in the normal course must never be exceeded in any part of the road is called as

[APPSC 2016]

- A :** Ruling gradient
- B :** Limiting gradient
- C :** Exceptional gradient
- D :** Escaping gradient

Q : 17 The most effective and economical method to stabilize Black Cotton Soil is

[APPSC 2016]

- A :** Cement stabilisation
- B :** Lime stabilisation with suitable additives
- C :** Thermal stabilisation
- D :** None of the given answers

Q : 18 Equivalent factor of PCU for trucks is

[APPSC 2016]

- A :** 0.5
- B :** 1
- C :** 3
- D :** 4s

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Q : 19 Which of the following gives the correct decreasing order of the densities of soil sample?

[BPSC 2019]

- A :** Saturated, Submerged, Wet, Dry
- B :** Saturated, Wet, Submerged, Dry
- C :** Saturated, Wet, Dry, Submerged
- D :** Wet, Saturated, Submerged, Dry

Q : 20 For sampling natural sands and other soft and wet soils satisfactory, the most suitable soil sampler is

[BPSC 2019]

- A :** Open drive thin-walled tube sampler
- B :** Standard split-spoon sampler
- C :** Stationary piston sampler
- D :** Rotary sampler

Q : 21 A sampler of clay and a sample of sand have the same specific gravity and void ratio. Their permeabilities would differ because

[BPSC 2019]

- A :** Their porosities would be different
- B :** Their degrees of saturation would be different
- C :** Their densities would be different
- D :** The size ranges of their voids would be different

Q : 22 In a saturated clay layer undergoing consolidation with single drainage at its top, the pore water pressure would be the maximum at its

[BPSC 2019]

A : Top

B : Middle

C : Bottom

D : Top as well as bottom

Q : 23 The time t required for attaining a certain degree of consolidation of a clay layer is proportional to

[BPSC 2019]

A : H^2 and C_v

B : H^2 and $\frac{1}{C_v}$

C : $\frac{1}{C_v}$ and H^2

D : $\frac{1}{H^2}$ and $\frac{1}{C_v}$

Q : 24 A clear dry sand sample is tested in direct shear test. The normal stress and the shear stress at failure are both equal to 120 kN/m^2 . The angle of shearing resistance of the sand will be

[BPSC 2019]

A : 25 degree

B : 35 degree

C : 45 degree

D : 55 degree

Q : 25 The rate of filtration of a slow sand filter ranges from

[BPSC 2019]

- A :** 10 to 100 L/h/m²
- B :** 10 to 200 L/h/m²
- C :** 200 to 400 L/h/m²
- D :** 400 to 1000 L/h/m²

Q : 26 If W is total BOD, V is filter volume and F is recirculation factor in a trickling filter, then unit organic loading is obtained by

[BPSC 2019]

- A :** $u = \frac{WF}{V}$
- B :** $u = \frac{VF}{W}$
- C :** $u = \frac{WV}{F}$
- D :** $u = \frac{W}{VF}$

Q : 27 In water supply pipes, wrought iron and cast iron pipes have relationship as

[BPSC 2019]

- A :** Life of wrought iron pipes > life of cast iron pipes
- B :** Life of cast iron pipes > life of wrought iron pipes
- C :** Both life spans are equal
- D :** Life of wrought iron pipes = 2 (life of cast iron pipes)

Q : 28 When the bed level of canal is higher than the highest flood (HFL) of discharge, then the cross discharge work is said to be

[BPSC 2019]

A : Aqueduct

B : Super-passage

C : Canal syphon

D : Under-tunnel

Q : 29 The bed of canal is lowered in case of

[BPSC 2019]

A : Syphon aqueduct

B : Canal syphon

C : Level crossing

D : All of the above

Q : 30 The pipe which is used to carry the discharge from sanitary fittings like bathrooms, kitchen etc. is called

[BPSC 2019]

A : Waste pipe

B : Soil pipe

C : Vent pipe

D : Anti-siphonage pipe