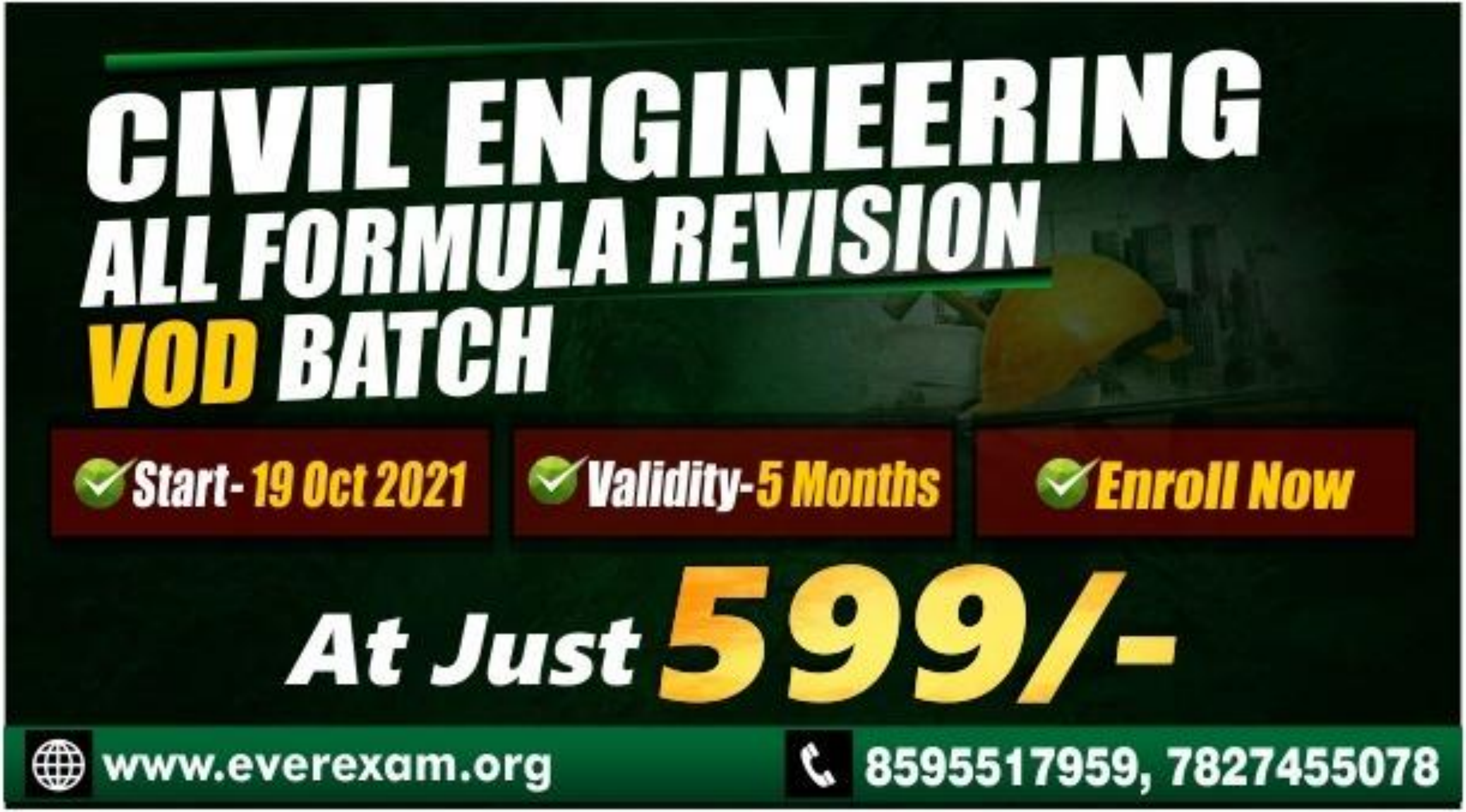
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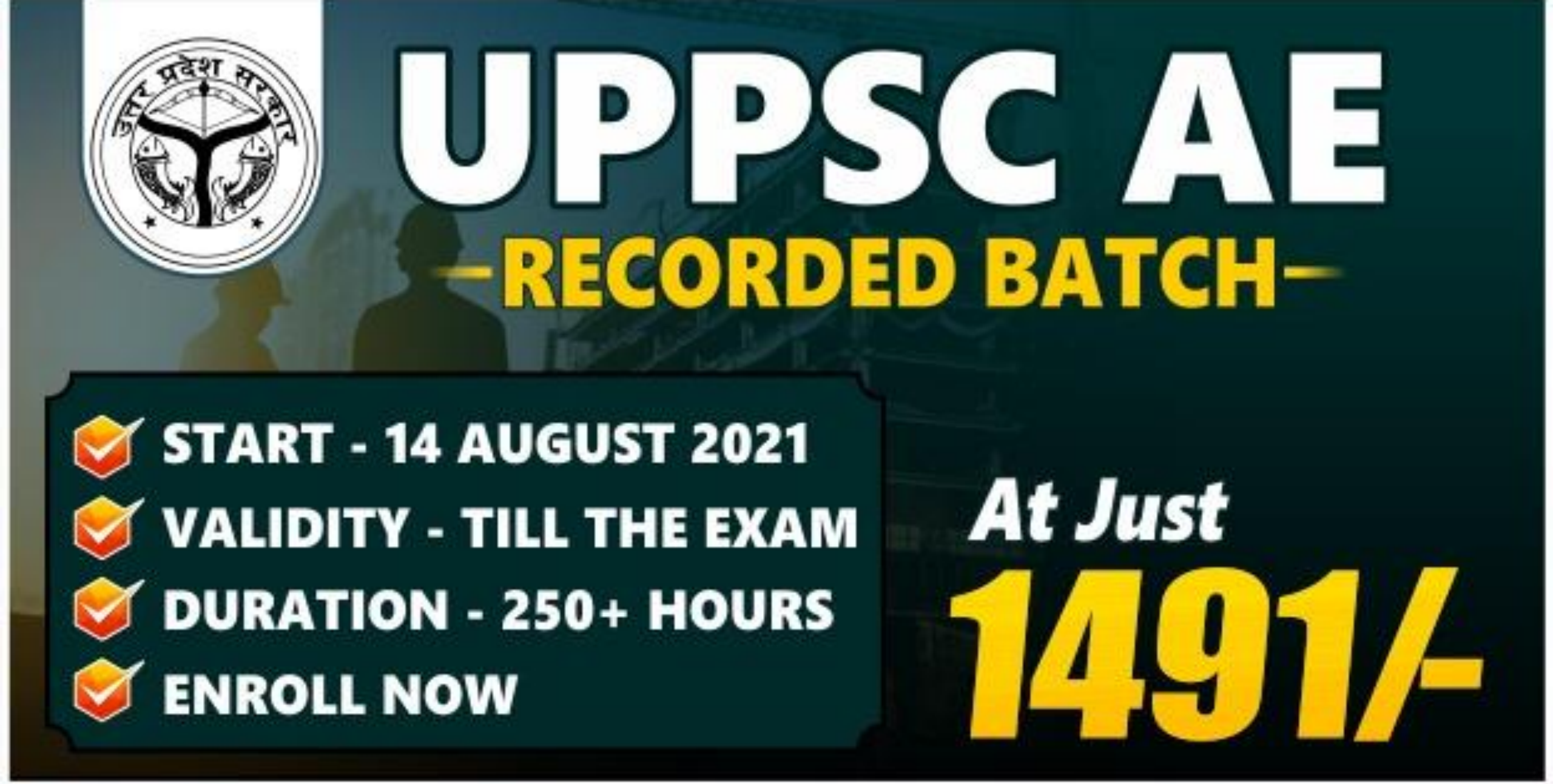
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#5 UPPSC AE 2019-20 QUESTIONS PRACTICE

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Daily Class – 7:30 PM

Q :1) If two triangular signals of 6.75 m height each are to be just visible over ground mutually, what is the maximum distance between their locations on the ground surface?

A : 10 km

B : 20 km

C : 30 km

D : 50 km

Q :2) The system that used the sun as a source of electromagnetic energy and records the naturally radiated and reflected energy from the object is called

A : Geographical information system (GIS)

B : Global positioning system (GPS)

C : Passive remote sensing (PRS)

D : Active remote sensing (ARS)

Q :3) The ratio of curvature correction to that of refraction is

A : 3

B : 12

C : 14

D : 7

Q :4) In a vertical curve, an upgrade of 2.0% is followed by downgrade of 2.0%. The rate of change of grade is 0.5% per 20 m chain. The length of the vertical curve will be

A : 800 m

B : 1000 m

C : 1200 m

D : 1600 m

Q :5) Repetition of bends on a geological map may be due to

A : Unconformity

B : Disconformity

C : Faulting

D : Folding

Q :6) The velocity distribution in turbulent flow is a function of the distance ‘y’ measured from the boundary surface and the friction velocity μ. And follows a

A : Parabolic law

B : hyperbolic law

C : Logarithmic law

D : Linear law

Q :7) Which conducting flow measurement using a rectangular notch, an error of 2% in head over the notch and error of 3% in the length was observed. The percentage error in the computed discharge would be

A : +6%

B : -1%

C : -2.5%

D : Zero

Q :8) A channel designed by Lacey's theory has a mean velocity of 1 m/s and silt factor of unity. The hydraulic mean radius will be

A : 2.5 m

B : 2 m

C : 1 m

D : 0.5 m

Q :9) A pipe is said to be equivalent to another if, in both

A : Length and discharge are the same

B : Velocity and diameter are the same

C : Discharge and frictional head loss are the same

D : Length and diameter are the same

Q :10) The pressure drop per unit length of pipe (Δ/L) in laminar flow is dependent on the velocity, velocity and diameter. It is equal to

A : $\frac{d^2}{32\mu V}$

B : $\frac{32\mu VL}{\gamma d^2}$

C : $\frac{32\mu V}{d^2}$

D : $\frac{8\mu V}{d^2}$

Q :11) The ratio of pressures between the two points A and B located respectively at depth 0.25 m and 0.75 m below a constant level of water in a tank is

A : 1 : 2

B : 1 : 3

C : 1 : 4

D : 1 : 5

Q :12) A circular plate 1 m in diameter is submerged vertically in water such that its upper edge is 8 m below the free surface of water. The total hydrostatic pressure force on one side of the plate is

A : 6.7 kN

B : 65.4 kN

C : 45.0 kN

D : 77.0 kN

Q :13) When there is an increase in the atmospheric pressure, the water level in a well penetrating a confined aquifer

A : Decreases

B : Increases

C : Does not undergo any change

D : Decrease or increase depending om the elevation of the ground

Q :14) A turbine in which the total energy of water available is converted to kinetic energy is called

A : Axial flow turbine

B : Reaction turbine

C : Impulse turbine

D : Mixed flow turbine

Q :15) Discharge per unit drawn down at a well is called

A : Specific storage

B : Specific yield

C : Specific capacity

D : None of the above

Q :16) A stream that provides water to the water table is termed as

A : Affluent

B : Influent

C : Ephemeral

D : Eluent

Q :17) The observed annual runoff from a basin a area 500 km^2 is 150 Mm^3 and the corresponding annual rainfall over the basin during the same year is 750 mm. what is the runoff coefficient?

A : 0.2

B : 0.57

C : 0.4

D : 0.5

Q :18) The Thiessen weights of 4 rain gauges A, B, C and D covering river basin are 0.15, 0.25, 0.30 and 0.30 respectively. If the average depth of rainfall for the basin is 5 cm and rainfall recorded at B, C and D are 5 cm, 4 cm and 5 cm respectively, what is the rainfall at A?

A : 5 cm

B : 6 cm

C : 7 cm

D : 8 cm

Q :19) Water is to be lifted by a net head of 240 m. identical pumps each with specific speed of 30 and rotational speed of 1450 rpm with design discharge 0.2 m^3/s are available. The number of pumps required will be

A : 2

B : 3

C : 4

D : 5

Q :20) For one-dimensional flow without rectangle in unconfined aquifer between two water bodies, the steady water table profiles

A : A straight line

B : A parabola

C : An ellipse

D : An arc of a circle

Q :21) As per the recommendation of the bureau of Indian standards, the shape of the lined canal is

A : Circular

B : Trapezoidal

C : Parabolic

D : Elliptic

Q :22) Geological strata between ground surface and water table is also termed a s

A : Piezometric zone

B : Phreatic zone

C : Vadose zone

D : Saturated zone

Q :23) The standard BOD5 at 20° C, when compared to BOD_u is

A : 50%

B : 68%

C : 75%

D : 100%

Q :24) Sludge bulking can be controlled by

A : Chlorination

B : Coagulation

C : Aeration

D : Denitrification

Q :25) Uniformity coefficient of filter sand is given by

A : $\frac{D_{60}}{D_5}$

B : $\frac{D_{50}}{D_5}$

C : $\frac{D_{50}}{D_{10}}$

D : $\frac{D_{60}}{D_{10}}$

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Daily Class – 7:30 PM

Q :26) Which of the following causes a decrease demand of water in per capita consumption?

A : Use of metering system

B : Good quality of water

C : Better standard of living of the people

D : Hotter climate

Q : 27) The following data pertain to a sewage sample :

Initial DO = 9.5 mg/L

Final DO = 2 mg/L; Dilution = 1%

The BOD is the given sample is

A : 7.5 mg/L

B : 10 mg/L

C : 75 mg/L

D : 750 mg/L

Q :28) The tilt in an aerial photograph is radial from

A : Nadir point

B : Principal point

C : Isocentric point

D : Plumb point

Q :29) The staff reading at distance of 8-m from a level with bubble at its centre is 1.52 m and when it is moved 5 division out of the centre, the reading is 1.60 m. The angular value of the bubble is

A : 20.62”

B : 41.25”

C : 14.55”

D : 25.5”

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Daily Class – 7:30 PM

Q :30) In GIS, the process used for modifying map features to make them clear at a reduced scale is known as

A : Cartographic generalization

B : Database generalization

C : Topographical encoding

D : Data filtering

Q :31) An Engineer measured the distance between two locations on a plan having a scale of 1 cm = 50 m as 600 m. Later, however, he found that he used a wrong scale of 1 cm = 30 m to measure the distance. The true distance between the locations is

A : 200 m

B : 250 m

C : 360 m

D : 1000 m

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Daily Class – 7:30 PM

Q :32) Streak of a mineral is

A : Its appearance in diffused light as obtained by rotating it.

B : Colour of the powder of a coloured mineral as obtained by rubbing it on a porcelain plate

C : Its appearance in thin section as seen under a polaring microscope

D : None of these

Q :33) A road segment of length 1 km scales 6 cm on a vertical photograph. The focal length of the camera is 150 mm. If the terrain is nearly plain, then the flying height of the aircraft will be

A : 2500 m

B : 25 km

C : 250 km

D : 250 m

Q :34) If the probable error in single observation is $\pm$ 0.04m and that of the mean is $\pm$0.01m, then the number of observations are

A : 4

B : 10

C : 16

D : 64

Q :35) Tangential method of tacheometry is

A : Slower than stadia hair method

B : Faster than stadia hair method

C : Preferred as it involves less computations to get reduced distance

D : Preferred as chances of operational error are less compared to stadia hair method.

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