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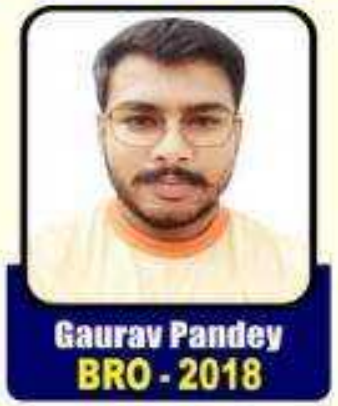

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Q: 61) As per the modified classification of road system by the Third Road Development Plan, 1981-2001, the roads in the country under 'Primary System' of road network consist of

A : Expressways and National Highways

B : State Highways (SH) and Major District Roads (MDR)

C : Other District Roads (ODR) and Village Roads (VR)

D : All of the above

Q: 62) The Benkelman Beam Deflection method is used for

A : Flexible overlay on flexible pavement

B : Rigid overlay on rigid pavement

C : Flexible overlay on rigid pavement

D : Rigid overlay on flexible pavement

Q: 63) The width of carriageway for various classes of roads standardized by the Indian Road Congress (IRC) for two lanes without raised kerbs is

A : 3.75 m

B : 7.00 m

C : 7.50 m

D : 5.50 m

Q: 64) The scour velocity of the stream is the

A : Average velocity

B : Maximum velocity at any time during the year

C : Velocity which can move the particles of bed materials

D : Velocity at which a highway bridge is liable to be damaged

Q: 65) The maximum tolerance in overall length of a 20 in and 30 m metric chain should be respectively

A : ±2 mm, ±8 mm

B : ±3 mm, ±5 mm

C : ±5 mm, ±8 mm

D : ±8 mm, ±5 mm

Q: 66) Closed contour lines with one or more higher value contours inside it represent

A : A hill

B : A depression

C : A cliff

D : A valley

Q: 67) The lines joining points of equal dip are called

A : Aclinic lines

B : Isogenic lines

C : Agonic lines

D : Isoclinic lines

Q: 68) The magnetic bearing of the sun at noon is 178°. The magnetic declination at the place is

A : 2°W

B : 2°E

C : 2°N

D : 2°S

Q: 69) If the lower clamp is tightened and the upper clamp is loosened, the theodolite may be turned

A : With a relative motion between Vernier and graduated scales of the lower plate

B : Without a relative motion between Vernier and graduated scales of the lower plate

C : Both (a) and (b)

D : About the horizontal axis

Q: 70) Total station is used for

A : Remote object height determination

B : Establishing horizontal control

C : Establishing vertical control

D : All of the above

Q: 71) Sensitivity of a level tube increases with

(i) An increase in radius of curvature of the bubble tube.

(ii) Smoothness of finish of the inner surface of the babble tube.

A : Only (i) is correct

B : Only (ii) is correct

C : Both are correct

D : None is correct

Q: 72) If the intercept on a vertical staff is observed as 0.75 m from a tachometer with the line of sight horizontal, fitted with anaclitic lens, the horizontal distance between the tachometer and the staff station is

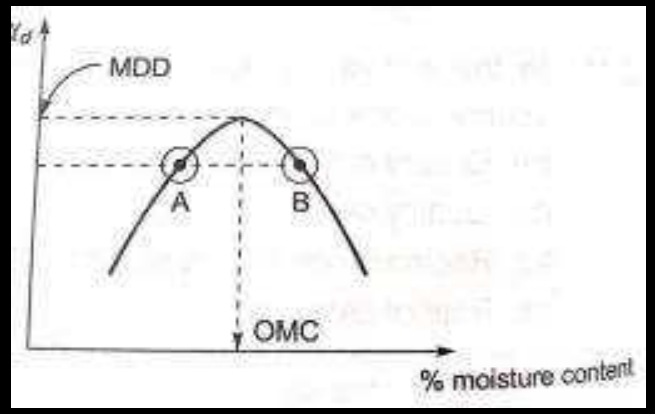
A : 0.75 m

B : 7.5 m

C : 75 m

D : 750 m

Q: 73) In a typical compaction curve as indicated in the diagram, points 'A' and 'B' have dry densities. Choose the moat appropriate statement from the following:



A : Soil at 'A' will have more swelling potential and less shrinking upon moisture-variation, compared to 'B'.

B : Soil at 'A' will have same swelling and shrinking potential as soil at 'B'.

C : Soil at 'A' will have loss swelling potential and higher shrinking potential compared with soil at 'B'.

D : The swelling-shrinking potential for soil at 'A' and 'B' cannot be predicted with the given date.

Q: 74) Following are the statements about the major differences between Tezaghi's analysis "T" and Meyerhof's analysis ('M') of bearing capacity:
(i) 'T' is for homogeneous and isotropic soils but ('M') accounts for non-isotropy.
(ii) In 'T', the failure surfaces from upto founding level hut in 'M', they are extended upto ground level.
(iii) In 'T', the angle of wedge formed beneath the foundation is assumed top be equal to the angle of internal friction of the soil but in "M" it varies.
(iv) In 'T' the load acting on the foundation is concentric and vertical but in 'M', it is assumed as eccentric.
Ascertain the correctness of the above statements and write the correct code.

A : Statement (i) is the only correct statement

B : Statements (i) and (ii) are correct

C : Statements (ii) and (iii) are correct

D : Statements (i) and (iv) are correct

Q: 75) A wall 6 m high has a smooth vertical back and retained sand as a backfill which is submerged. The sand has γ_{sat} = 20 kN/m^3 and $\phi = 30_o$. The total active earth pressure is

A : 90 kN/m^2

B : 60 kN/m^2

C : 120 kN/m^2

D : None of the above

Q: 76) The modern electronic Tachometers are a combination of:

1. An electronic theodolite
2. An electronic data collector
3. An Electric distance measurement

A : 1 and 2 only

B : 2 and 3 only

C : 1 and 3 only

D : All of the above

Q: 77) In chain surveying, perpendiculars to the chain line are set out by:

A : a theodolite

B : a prismatic compass

C : a clinometer

D : an optical square

Q: 78) Least count of a levelling staff is:

A : 1 cm

B : 5 mm

C : 1 mm

D : None of the above

Q: 79) The backsight reading on a B.M.=R.L. of 150 m was (-2.250 m). The erected staff reading on the top of workshop floor was 1.450 m. The R.L. of the top of workshop floor is:

A : 154.300 m

B : 146.300 m

C : 150.800 m

D : 145.800 m

Q: 80) If 'η' is the number of sides of a traverse, while theodolite traversing the sum of the interior included angles should be:

A : $(2\eta-4) \times 90^{o}$

B : $(2\eta+4) \times 90^{o}$

C : $(2\eta \mp 4) \times 90^{o}$

D : 360^{o}

Q: 81) What will be the curvature correction for staff reading, in levelling for a distance of 1000 m?

A : 0.0673 m

B : 0.0785 m

C : 78.50 m

D : 6.73 m

Q: 82) Spire test is carried out for the permanent adjustment of:

A : Dumpy level

B : Auto level

C : Tilting level

D : None of these

Q: 83) The lines joining the points of equal elevations on the surface of the earth are known as:

A : isohyets

B : isogonics

C : agonies

D : contours

Q: 84) What is the magnetic declination at a place if the magnetic bearing of the sun at noon at that place is 186°?

A : 6°W

B : 6°E

C : 0°W

D : 0°E

Q: 85) The process of locating the instrument station occupied by plane table from stations whose positions have already been plotted on plan is known as:

A : Orientation

B : Radiation

C : Intersection

D : Resection

Q: 86) Salvage value is defined as:

A : value of dismantled materials of a property at the end of its utility period

B : estimated value of a built up property at the end of its useful life without being dismantled

C : value of the property shown in the account book in that particular year

D : present value of a property considering it to be replaced at the current market rates

Q: 87) The rights and privileges which an owner of a property enjoys through or over the property of anothre is known as:

A : Property right

B : Lease right

C : Legal right

D : Easement

Q: 88) The unit measurement for earthwork in surface excavation exceeding 1.5 m in width as well as 10 sqm on plan but not exceeding 30 cm in depth, is in:

A : cu. m

B : sq. m

C : 10 sq. m

D : Rmt

Q: 89) Which committee recommended that an allowance of 10% of the prime cost as the contractor's profit would be reasonable?

A : The Rates and Costs Committee, 1957

B : MPWD Committee, 1940

C : CPWD Committee, 1950

D : MPSC Committee, 2010

Q: 90) A cube of soil specimen having dimensions 2 cm × 2 cm × 2 cm weighs 16 gm when it is fully saturated. If void ratio of the specimen is 1.0, the dry density of the specimen will be:

A : 2000 kg/m^3

B : 1500 kg/m^3

C : 1200 kg/m^3

D : 1600 kg/m^3

Q: 91) From the following statements, select the most appropriate statement: Westergaard's analysis for stress computation within soil mass assumes.

A : Point load at the surface and soil being homogeneous and isotropic

B : Line load at the surface and soil being homogeneous and non-isotropic

C : Point load at the surface and soil being homogeneous and non-isotropic

D : Line load at the surface and soil being non-homogeneous and isotropic

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