12.55. Pick up the correct statement from the following: (a) In hydrometer method, weight W_d per ml of suspension is found directly (b) In pipette analysis, weight W_d per ml of suspension is found indirectly

- (c) In pipette analysis, weight W_d per ml of suspension is found directly
- (d) None of these.

12.58. The minimum water content at which the soil just begins to crumble when rolled into threads 3 mm in diameter, is known

(a) liquid limit

(b) plastic limit

(c) shrinkage limit

(d) permeability limit.

12.59. The minimum water content at which the soil retains its liquid state and also possesses a small shearing strength anginst flowing, is known

(a) liquid limit

(b) plastic limit

(c) shrinkage limit

(d) permeability limit.

12.60. The maximum water content at which a reduction in water content does not cause a decrease in volume of a soil mass, is known

(a) liquid limit

(b) plastic limit

(c) shrinkage limit

(d) permeability limit.

12.66. For general engineering purposes, soils are classified by

- (a) particle size classification system
- (b) textural classification system
- (c) High Way Research Board (HRB), classification system
- (d) unified soil classification system.

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12.72. The soil moisture (a) free water (c) gravity water	driven off by heat, is called (b) hydroscopic water (d) none of these.
12.74. The property of a through it, is called (a) moisture content (c) capillarity	soil which permits water to percolate (b) permeability (d) none of these.
(c) decreases as the size (d) is less in wet soil the 12.78. When the seepag pressure due to submerg pressure is reduced to z	orce responsible e of the soil particles increases ze of the soil particles decreases
(a) bath rooms(c) kitchen sinks	ot contain waste water from (b) wash basins (d) toilets. sports the sewage to the point of (b) out-fall sewer (d) lateral

The value of Chezy's constant

$$C = \frac{\left(23 + \frac{0.00155}{s}\right) + \frac{1}{n}}{1 + \left(23 + \frac{0.00155}{s}\right) \frac{n}{\sqrt{r}}}$$

is used in

(a) Chezy's formula

(b) Bazin's formula

(c) Kutter's

(d) Manning's formula.

11.35. If γ_w is the unit weight of water, r the hydraulic mean depth of the sewer and S the bed slope of the sewer, then the tractive force exerted by flowing water, is

(a) γ_w . r.S

(c) $\gamma_w r \sqrt{S}$

(b) $\gamma_w r^{1/2}$. S(d) $\gamma_w r^{2/3} \sqrt{S}$.

11.45. The drop man holes are generally provided in sewers

(a) industrial areas

(b) large town ships

(c) hilly town ships

(d) cities in plains.

11.46. With self cleansing velocity in sewers

- (a) silting occurs at bottom
- (b) scouring occurs at bottom
- (c) both silting and scouring occur at bottom
- (d) neither silting nor scouring occurs at bottom.

11.68. For trunk and out-fall, the type of sewers generally used, is

- (a) standard egg shaped
- (b) circular shaped
- (c) horse shoe shaped
- (d) parabolic shaped
- (e) semi-elliptical shaped.



11.76. Stoneware sewer	rs are available in size
(a) 10 cm	(b) 15 cm
(c) 20 cm	(d) 25 cm
(e) all the above.	
11.84. A manhole is gener	ally provided at each
(a) bend	(b) junction
(c) change of gradient	
(d) change of sewer dia	meter
(e) all the above.	
(e) all tile above.	
11.85. The spacing of man holes sewer is 300 m, the diameter of (a) 0.9 cm (c) 1.5 m 17.5. Indian Road Congress (I stituted with its head quarters (a) 1924 (c) 1930	the sewer may be (b) 1.2 m (d) > 1.5 m. (R.C.) was founded and con-
(e) 1942.	
17.8. The inventor of road maki (a) Sully (c) Telford	ng as a building science, was (b) Tresguet (d) Macadam.
17.10. The head of public work state, is (a) Transport Minister (c) Superintending Engineer	(b) Chief Engineer

17.12. For Indian conditions roads, are suitable if daily (a) 2000 tonnes (c) 3000 tonnes	traffic does not exceed (b) 2500 tonnes (d) 3500 tonnes.
	commendations of Nagpur Connormal of an ideal National Highway in (b) 7.9 m (d) 6.5 m
	of a soil depends upon in soil (b) porosity of soil (d) neither (a) nor (b) .
 16.5. The state of the soil water for their requirement (a) maximum saturate (b) permanent wilting (c) ultimate utilisation (d) none of these. 	d point point
 (a) transpired by the cro (b) evaporated by the cro (c) transpired and evaporated 	op op
the quantity of water	r evaporated from adjacent soil.

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16.9. The depth of rice root zone, is

(a) 50 cm

(b) 60 cm

(c) 70 cm

(d) 80 cm

(e) 90 cm.

16.10. The field capacity of a soil is 25%, its permanent wilting point is 15% and specific dry unity weight is 1.5. If the depth of root zone of a crop, is 80 cm, the storage capacity of the soil, is

(a) 8 cm

(b) 10 cm

(c) 12 cm

(d) 14 cm

(e) 16 cm.



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