



# CIVIL ENGINEERING



# DDA JE 2022

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**Q : 31) A soil has an average particle size of 0.2 mm, it is predominantly:**

**A : Gravel**

**B : Sand**

**C : Silt**

**D : Clay**

**Q : 32) Density index for a natural soil is used to express**

**A : Percentage voids**

**B : Relative compactness**

**C : Shear strength of clays**

**D : Specific gravity**

**Q : 33) Geologic cycle for the formation of soil, is.....**

**A : Upheaval-transportation-transportation-weathering**

**B : Weathering-upheaval-transportation-desposition**

**C : Transportation-upheaval-weathering-deposition**

**D : Weathering-transportation-upheaval**

**Q : 34) Water content of a soil sample is the difference of the weight of the given sample at the given temperature and the weight determined after drying it for 24 hours at temperature ranging from.....**

**A :  $80^{\circ}$  to  $90^{\circ}$  c**

**B :  $90^{\circ}$  to  $95^{\circ}$  c**

**C :  $95^{\circ}$  to  $100^{\circ}$  c**

**D :  $105^{\circ}$  to  $110^{\circ}$  c**

**Q : 35) If voids ratio is 0.67, water content is 0.188 and specific gravity is 2.68, the degree of saturation of the soil, is:**

**A : 0.25**

**B : 0.4**

**C : 0.6**

**D : 0.75**



**Q : 36) The \_\_\_\_\_ soil transport by the gravitational forces.**

**A : Alluvial soil**

**B : Colluvial soil**

**C : Loess**

**D : Till**

**Q : 37) Which of the following apparatus is used to measure the liquid limit soil?**

**A : Cassagrande apparatus**

**B : Pycnometer**

**C : Ring and ball apparatus**

**D : None of these**

**Q : 38) If the voids of a soil are completely filled with air, then it is called.....**

**A : Dry soil**

**B : Partially saturated soil**

**C : Submerged soil**

**D : Saturated soil**

**Q : 39) Which of the following represents the sand?**

**A : 5% to 15%**

**B : 15% to 30%**

**C : 30% to 40%**

**D : 40% to 50%**



**Q : 40) The grain sizer (mm) of medium grained sand lies between.....**

**A : 0.425 to 0.075**

**B : 2.0 to 0.425**

**C : 4.75 to 2.0**

**D : 20 to 4.75**

**Q : 41) Which of the following represents the range of plasticity index for silt?**

**A : 10 to 15**

**B : 15 to 25**

**C : 25 to 35**

**D : 35 to 45**

**Q : 42) If a grading curve is horizontal between the portion of 20 mm I.S. sieve and 4.75 mm sieve, the graded aggregate do not contain.**

**A : 20 mm particles**

**B : 10 mm particles**

**C : 4.75 mm particles**

**D : All option are correct**

**Q : 43) A negative value of the group index of a soil is reported as:**

**A : A positive value of the same magnitude dropping the negative sign.**

**B : Zero**

**C : Negative value, as GI may be negative**

**D : GI is reported as no-existent.**



**Q : 44) The coefficient of curvature for a well graded soil must be in the range:**

**A : 0.5 - 1.0**

**B : 3.0 - 4.0**

**C : 4.0 - 5.0**

**D : None of the above**

**Q : 45) Which of the following shows the correct order of increasing surface areas of the given soil?**

**A : Clay**

**B : Gravel**

**C : sand**

**D : Silt**

**Q : 46) On a grading curve, the grading is represented by**

**A : Horizontal line**

**B : A vertical line**

**C : North west inclined line**

**D : None of these**

**Q : 47) Which of the following bonding is responsible to combine the silica - gibbsite sheet in kaolinite clay mineral?**

**A : Covalent bond**

**B : Hydrogen bond**

**C : Ionic bond**

**D : Polar covalent bond**



**Q : 48) Pick up the incorrect statement from the following:**

**A : Well-graded coarse-grained soil can be compacted to a very high density as compared to fine-graded soil.**

**B : The dry density decreases after attaining optimal moisture content.**

**C : By compacting at a high enough water content, we can produce soil at 100% saturation.**

**D : None of the above**

**Q : 49) If the depth of moist sand in a cylinder is 15 cm and the depth of the sand when fully inundated with water is 12 cm, then what is the bulking of the moist sand?**

**A : 0.1**

**B : 0.2**

**C : 0.15**

**D : 0.25**

**Q : 50) Which of the following type of roller is most suitable for proof rolling subgrades and for finishing operation of fills with clayey or sandy soils?**

**A : Pneumatic rubber tired roller**

**B : Sheeps foot roller**

**C : Smooth wheel roller**

**D : Vibratory roller**

**Q : 51) Which of the following roller is used to compact the coarse-grained soil?**

**A : Drum roller**

**B : Pneumatic tyred roller**

**C : Tamping roller**

**D : Vibratory roller**

**Q : 52) The total and effective stresses at depth of 5m below the top level of water in a pond respectively are:**

**A : 0.0 and 0.0**

**B : 0.5 kg/cm<sup>2</sup> and 0.0**

**C : 0.5 kg/cm<sup>2</sup> and 0.5 kg/cm<sup>2</sup>**

**D : None of these**

**Q : 53) The viscosity and unit-weight of the percolating fluid are reduced to 5% and 95% respectively due to rise in temperature. If other thing remains constant, the coefficient of permeability will be:**

**A : Increased by 26%**

**B : Increased by 53%**

**C : 0.343**

**D : None of these**

**Q : 54) Between the seepage velocity and the discharge velocity in a soil:**

**A : The former is always higher.**

**B : The latter is always higher**

**C : Any one may be higher**

**D : Any one may be higher**



**Q : 55) An overall value of the coefficient of permeability of a soil deposit for a large area may be determined by:**

**A : Constant head permeability test**

**B : Variable head permeability test**

**C : Pumping out tests.**

**D : Pumping in tests.**

**Q : 56) A loose uniform sand with rounded grains has effective grain size of 0.05 cm. Coefficient of permeability of the sand is?**

**A : 0.25 cm/sec**

**B : 0.5 cm/sec**

**C : 1 cm/sec**

**D : 1.25 cm/sec**



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