Q: 1 Hardness of the rock can be tested in situ using

- (a): Smith's test
- (b): Schmidth Hammer test
- (c) : Acid test(d) : Acid test
- Q: 2 The most suitable stone for building piers is
- (a): Granite(b): Limestone(c): Marble(d): Sandstone
- Q: 3 Following stone is suitable for damp proofing
- (a): Slate(b): Marble(c): Laterite(d): Granite
- Q: 4 Pegmatite is an example
- (a): Sedimentary rock(b): Extrusive igneous rock(c): Intrusive igneous rock(d): Metamorphic rock
- Q: 5 Shingle is-
- (a): Water bound pebbles(b): Disintegrated laterite
- (c) : Crushed granite (d) : None of these
- Q: 6 The brick a triangular corner equal to half the width and half length is called
- (a): Closer(b): Queen closer(c): King closer(d): Squint brick
- Q: 7 The process of mixing clay, water and other ingredients to make bricks is known as-
- (a): Tempering(b): Kneading(c): Pugging(d): Moulding

- Q: 8 Which of the following defect appears due to presences of alkalies in the brick?
- (a): Bloating (b): Black core (c): Cracks
- (d): Efflorescence
- Q: 9 The water absorption (expressed in percentage) for burnt clay perforated bricks should not be more than
- (a): 5 (b): 15 (c): 25
- (d):35
- Q: 10 What is the thickness (inches) of the one brick wall made up of traditional brick?
- (a): 9 (b): 10 (c): 18 (d): 20
- Q: 11 Oleic acid may be used in the manufacture of:
- (a): While cement
- (b): Hydrophobic cement
- (c): Anti-bacterial cement
- (d) : Portland pozzolana cement
- Q: 13 Fimd the odd entry among silica fume, rice husk ash, metakaoline and granulated blast furnace slag with respect to cement product:
- (a) : Silica fume (b) : Rice husk ash
- (c): Ground granulated blast
- (d): Metakaoline Q: 14 Snowcem is
- (a): Coloured cement(b): Powdered lime(c): Chalk power
- (d): Mixture of chalk power and

- Q: 15 Stem curing is not used with
- (a): Ordinary Portland cement
- (b): Rapid hardening cement
- (c): High alumina cement
- (d): High the option are correct
- Q: 16 The specific expressed in square cm²/gm of a good Portland cement should not be less than _____.
- (a): 1750 (b): 2000
- (c): 2250 (d): 2500
- Q: 17 For a 50 kg cement bag, water required is
- (a): 16.5 litre (b): 18.5 litres (c): 20.5 litres (d): 22.5 litres
- Q: 18 To hydrate 500 kg cement fully water needed is _____.
- (a): 100 kg (b): 110 kg
- (c): 120 kg (d): 130 kg
- Q: 19 In a lime-cement plaster, ratio 1:1:6 corresponds to:
- (a): Lime: Cement: Sand
 (b): Cement: Lime: Sand
 (c): Lime: Sand: Gravel
 (d): Cement: Sand: Gravel
 Q: 20 The fineness modulus of fine aggregate is:
- (a): 2.0 to 3.5 (b): 3.5 to 5.0 (c): 5.0 to 7.0 (d): 6.0 to 8.5
- Q: 21 The flaky aggregate is said to be elongated if its length is:
- (a): Equal to the main size
- (b) : Twice the main size
- (c): Thrice the mean size
- (d) : Four times the mean size

Q: 22 The percentage of the fine aggregate of fineness modulus 2.6 to be combined with coarse aggregate of fineness modulus 6.8 for obtaining the aggregate of fineness modulus 5.4, is:

(a): 0.6 (b): 0.3 (c): 0.4 (d): 0.5

Q: 23 Which department looks after the execution and maintenance of water supply and sanitary works?

(a): Public works department (b): Social welfare department

(c) : Public health department

(d): None of these

Q:24 The measure of absorption or scattering of light by the suspended material present in the water is known as_____

(a): Alkalinity(b): Colour(c): Hardness(d): Turbidity

Q: 25 The total solids in water are due to presence of:

(a) : Colloidal and settleable solids

(b): Suspended and floating solids

(c): Suspended and dissolved solids

(d) : Colloidal and bacterial load

Q: 26 The layout of distribution system in which water flows towards the outer periphery is:

(a): Ring system(b): Dead end system(c): Radial system(d): Grid-iron system

Q: 27 Harmful bacteria, which may be present in sewage, may be:

(a) : E coli (b) : b coli

(c): Vibrio cholerase

(d): Entamoeba histolytica

Q: 28 What is the theoretical demand (mg/L) of a glucose solution of concentration 500 mg/L.

(a): 250.33 (b): 380.65 (c): 533.33 (d): 650.21

Q: 29 Under natural condition of flow, an unpolluted river would contain

(a): More dissolved oxygen in summer than in winter

(b): Less dissolved oxygen in summer than in winter

(c): More or less same amount of dissolved oxygen in summer and in winter

(d): The least amount of dissolved oxygen during the floods

Q: 30 Anaerobic treatment is best suited for

(a): High efficiency (b): Toxic wastes

(c) : Dilute inorganic wastes

(d): Strong organic wastes

Q:31 A pipe, which is installed in the house drainage to preserve the water seal of traps is called

(a): Vent pipe

(b): Anti siphonage pipe

(c): Waste pipe

(d): Soil pipe

Q: 32 Anti-Siphonage pipe is connected to

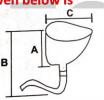
(a): Main soil pipe

(b): Bottom of p trap W.C.

(c): Top of p trap W.C.

(d): Side of water close

Q: 33 The value of "C" of Indiantype W.C. Shown in the figure given below is



(a): 400mm (b): 450mm (c): 500mm (d): 550mm

Q: 34 A hydrometer is used to measure

(a): Velocity of fluids.(b): Velocity of gases.(c): Flow of fluids

(d) : Specific gravity of liquids

Q: 35 For which of the following soil, Plasticity index is maximum?

(a): Clay(b): Cobble(c): Gravel(d): Silt

Q:36 The coefficient of gradation and the coefficient of uniformity of a given soil sample is 1.0 and 4.0 respectively. The ratio of effective size to the diameter through which 30% of the total mass is passed is _____.

(a): 1.25 (b): 1.5 (c): 1.75

(d):2

Q: 37 On a grading curve, the gap grading is represented by

(a) : Horizontal line (b) : A vertical line

(c): North west inclined line

(d): None of these

Q: 38 A plate load test is used to determine

(a): Bearing capacity of foundations

(b): Settlement of foundations

(c): Both (a) and (b) (d): None of these

Q: 39 A 300 mm square bearing plate settles by 15 mm in a plate load test on a cohesive soil when the intensity of a prototype shallow footing '1 m' square under the same intensity of loading is:

(a): 15 mm (b): 30 mm (c): 50 mm (d): 167 mm

Q: 40 The grouping of pile will not reduce the load carrying capacity in case of:

(a): Friction piles(b): End bearing piles(c): Both (a) and (b)(d): None of the above

Q: 41 A friction pile of diameter 50cm is embedded 15 m into the homogeneous consolidated clay deposit. If the adhesion factor is 0.7 and adhesion develops between the clay and pile shaft is 4t/m². What is the safe load (t) for factor of safety 3.0?

(a): 15 (b): 22 (c): 26 (d): 30

Q: 42 What will be the shift of transition curve, if the length of transition curve is 80 m and radius of the curve is 300m?

(a): 0.011 (b): 0.78 (c): 0.89 (d): 21.33

Q:43 The intermediate sight distance is equal to

(a): Overtaking sight distance (b): Stopping sight distance

(c): Twice of over taking sight distance

(d): None of above

Q:44 Right of way is the summation of the width of

(a): carriage way and shoulder

(b) : Carriage way, shoulder and road margins

(c): Carriage way and road margins. Road margins and shoulder

(d): None of above

Q: 45 What is the percentage content of asphalt in the cutback asphalt?

(a): 0.1 (b): 0.3 (c): 0.5 (d): 0.8

Q:46 The viscous liquid obtained from the destructive distillation of organic material is known as_____.

(a) : Paint (b) : Slag (c) : Tar

(d): None of these

Q:47 Identify which of the following items is not considered while designing rigid pavements:

(a): Centre of the panel(b): Edge of the panel(c): Corner of the panel(d): Dowel bar between edges

Q: 48 The value of rigidity factor for design purpose, if the type pressure is greater than 0.7 MPa

is____.

(a) : Greater than 1

(b) : Less than 1 (c) : Equal to 1

(d) : Zero

Q: 49 The scale in which three successive dimensions can be measured at a time is called .

(a) : Chord scale(b) : Diagonal scale(c) : Plain scale

(d) : Vernier scale

Q: 50 The design shear stress in reinforced cement concrete depends on-

A. Characteristics strength of concrete

B. Percentage of longitudinal tensile reinforced

C. Characteristics strength of steel

(a): Only A (b): Only B (c): Only C (d): Both A and B

CHANNEL EXAM