DRAFTSMAN (CIVIL) MODEL QUESTION PAPER



By Team

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 One cubic metre of Portland cement is (a) 10 bags (b) 20 bags (c)30 bags (d)40 bags In a simply supported beam shear force is zero when bending more (a) Maximum (b) minimum (c) Zero (d) none of the above Each term in Bernoulli's equation represents (a) Energy per unit mass (b) energy per unit force (c) Energy per unit weight The thickness of base of road should not be more than 	
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(a) Energy per unit mass(b) energy per unit force(c) Energy per unit area(d) energy per unit weight 4. The thickness of base of road should not be more than	nentis
(a) 20cm (b) 30cm	
(c) 40cm (d) 50cm	
5. Stone generally preferred for railway ballastis(a) Basalt or trap granite(b) Marble(c) Sand stone(d) Slate	

6. The diameter of rivet hole is usually the nominal diameter of the rivet

(a) Less than

(b) Not equal to

- (c) More than
- (d) Depends on thickness of plate
- 7. An object is below HP and behind VP. The object is in
 - (a) 1st quadrant
 - (b) 2nd quadrant
 - (c) 3rd quadrant
 - (d) 4th quadrant
- 8. An underground passage ortunnel to permit the traffic is called
 - (a) sub way
 - (b) driveway
 - (c) Right of way
 - (d) highway
- 9. The value of poisons ratio depends on
 - (a) cross section
 - (b) magnitude of load
 - (c) material oftest specimen
 - (d) none of the above
- 10. What is the locus of a point on a thread unwound from a cylinder
 - (a) involute
 - (b) helix
 - (c) straight line
 - (d) circle
- 11. Hellige turbid meter helps to measure turbidity in the range of
 - (a) 0 to 50ppm
 - (b) 0 to 100 ppm
 - (c) 50 to 100ppm
 - (d) 100 ppm

- 12. The settling velocity of inorganic particlesina sedimentation tank is governed by
 - (a) Stokes llaw
 - (b) Darcys law
 - (c) Chezyslaw
 - (d) Dupuits formula
- 13. Disinfection power of chlorine increases with
 - (a) lower value of pH
 - (b) higher value of pH
 - (c) At neutral pH
 - (d) Remains unaffected
- 14. Ascourvalve in water distribution system is provided at
 - (a) High points
 - (b) Low points
 - (c) junction points
 - (d) all of these
- 15. The suitable layout of water distribution system for an irregularly grown town is
 - (a) Dead end system
 - (b) Grid iron system
 - (c) Ring system
 - (d) Radial system
- 16. The valve used for controlling the flow
 - (a) Scour valve
 - (b) Check valve
 - (c) Sluice valve (d) Pressure relief valve
- 17. Which of the following formula is used to find diameter of rivet?
 - (a) Unwins's formula

- (b) The French formula
- (c) The German formula
- (d) All of these
- Web Crippling generally occurs at the point where 18.
 - (a) bending moment is maximum
 - (b) shearing force is minimum
 - (c) concentrated loads act
 - (d) deflection is maximum
- The maximum permissible slenderness ratio of a member carrying loads 19. resulting from wind, is
 - (a) 250
 - (b) 180
 - (c) 200
 - (d) 300
- The maximum area of tension reinforcement in beams shall not exceed 20.
 - (a) 4%
 - (b) 1%
 - (c) 1.5%
 - (d) 0.15%
- As the percentage of steel increases
 - (a) depth of neutral axis decreases
 - (b) depth of neutral axis increases
 - (c) leverarm increases
 - (d) lever arm decreases
- the factor of safety against sliding for a retaining wall is 22.
 - (a) 1.0
 - (b) 1.25
 - (c) 1.5

(d)	12	0
(u) Z.	U

- 23. Design of R.C.C. cantilever beams, is based on the resultant force at
 - (a) fixed end
 - (b) free end
 - (c) mid span
 - (d) mid span and fixed support
- 24. If the diameter of longitudinal bars of a square columnis 16 mm, the diameter of lateral ties should not be less than
 - (a) 4 mm
 - (b) 5 mm
 - (c) 6 mm
 - (d) 8 mm
- 25. The maximum vacuum created at the summit of a syphon is
 - (a) 2.7 m of water
 - (b) 7.4 m of water
 - (c) 5.5 m of water
 - (d) 3.4 m of water
- 26. Total drag on a sphere is approximately equal to of that of vertical disc
 - (a) 1/3
 - (b) 1/2
 - (c) 1/4
 - (d) 1/6
- 27. The body in which its surface does not coincide with streamline is called
 - (a) fluidic body
 - (b) dynamic body
 - (c) bluff body
 - (d) streamlined body

- 28. Reynolds number is the ratio of
 - (a) Viscous force toinertia force
 - (b) elastic to pressure force
 - (c) gravity to inertia force
 - (d) none of the above
- 29. A Kaplan turbine is
 - (a) high head axial flow
 - (b) axial flow reaction turbine
 - (c) low head axial flow turbine
 - (d) none of the above
- 30. The necessary and sufficient condition for surface to be called as 'free surface' is
 - (a) Shear stress acting on it must be zero
 - (b) no stress should be acting on it
 - (c) tensile stress acting on it must be zero
 - (d) no point on it should be under any stress
- 31. For Froude's number greater than 9, the hydraulic jump is known as
 - (a) Undular
 - (b) weak
 - (c) choppy
 - (d) oscillating
- 32. Which of the following represents least pressure?
 - (a) mm of mercury
 - (b) milli bar
 - (c) N/mm2
 - (d) kgf/cm2
- 33. The product of tangent of equipotential lines and flow lines is

- (a) -1
- (b) 0
- (c) 1
- (d) 2
- 34. The fixed mooring does not require
 - (a) Mooring post
 - (b) bollard
 - (c) Anchors
 - (d) capstan
- 35. As metacentric increases, comfort to passengers
 - (a) decreases
 - (b) increases
 - (c) remains unchanged
 - (d) uncertain
- 36. A harbour is a place where
 - (a) ships get shelter and protection against destructive forces due to sea waves
 - (b) facilities are provided for receiving cargo and passengers
 - (c) port buildings are constructed for commercial purposes
 - (d) all the above
- 37. A harbour without any port complex, is called a
 - (a) Port harbour
 - (b) Fishery harbour
 - (c) Refuge harbour
 - (d) None of the above
- 38. Tensile strength of steel used in rail should not be less than
 - (a) 450 MPa.
 - (b) 500 MPa.

- (c) 700 MPa.
- (d)750 MPa.
- 39. Largest percentage of material in the rail is in its
 - (a) Head
 - (b) web
 - (c) foot
 - (d) head and foot both
- 40. Due to battering action of wheels over the end of the rails, the rails get bent down and are deflected at ends. These rails are called
 - (a) roaring rails
 - (b) hogged rails
 - (c) corrugated rails
 - (d) buckled rails
- 41. Design of flexible pavements is based on
 - (a) empirical formulae
 - (b) mathematical analysis
 - (c) both of these
 - (d) none of these
- 42. First operation during the detailed survey of a hill road, is
 - (a) derivation of longitudinal and cross-sections
 - (b) adjustment of alignment along with curves
 - (c) hydrological and soil surveys
 - (d) fixation of Bench Marks
- 43. The minimum Water content at which the soil just begins to crumble whenrolled into threads 3 mm in diameter, is known
 - (a) Liquid limit
 - (b) plastic limit
 - (c) Shrinkage limit

- (d) permeability limit
- 44. The liquid limit and plastic limit exist in
 - (a) sandy soils
 - (b) silty soils
 - (c) gravel soils
 - (d) clay soils
- 45. The relationship between void ratio (e) and porosity ratio (n) is
 - (a) n = (1+e)/(1-e)
 - (b) n = (1-e)/(1+e)
 - (c) n = e/(1-e)
 - (d) e = n/(1-n)
- 46. The fathometer is used to measure the depth of
 - (a) Lake
 - (b) Stream
 - (c) River
 - (d) Ocean
- 47. Is a perspective projection upon a tangent plane, the projecting line radiating from the centre
 - (a) Polyconic projection
 - (b) Mercator projection
 - (c) Gnomonic projection
 - (d) None of the above
- 48. In plane geometry the sum of angles of a triangle in two right angles, where as in spherical geometry it is always
 - (a) Equal to two right angles
 - (b) less than two right angles
 - (c) Greater than two right angles
 - (d) None of the above

- 49. The untrimmed size of A2 drawing sheet is
 - (a) 450x625 mm
 - (b) 420X594 mm
 - (c) 594X841 mm
 - (d) 625X880mm
- 50. To observe an included angle with better accuracy with a Vernier theodolite, it is preferred:
 - (a) The method of repetition
 - (b) Method of reiteration
 - (c) Method of double observation
 - (d) Method of exactness
- 51. The contour interval is kept inversely proportional to:
 - (a) Time and expense of the work
 - (b) Steepness and configuration of the area
 - (c) Scale of the map
 - (d) All of the above
- 52. Determining the difference in elevation between two points on the surface of the earth, is known as
 - (a) levelling
 - (b) simple leveling
 - (c) differential levelling
 - (d) longitudinal levelling
- 53. The lens nearer the eye is called eyepiece
 - (a) eyepiece
 - (b) chromatic lens
 - (c) telescopic lens
 - (d) none of the above

- 54. Resolving power of a telescope depends on
 - (a) The diameter of the aperture
 - (b) The pupil aperture of the eye
 - (c) The diameter of the object glass
 - (d) all the above
- 55. Under ordinary conditions, the precision of a theodolite traverse is affected by
 - (a) systematic angular errors
 - (b) accidental linear errors
 - (c) Systematic linear errors
 - (d) accidentalangular errors
- 56. Stadia tachometry was discovered
 - (a) JamesWatt
 - (b) Pythagoras
 - (c) Archimedes
 - (d) Euclid
- 57. The properties of autogenous curve for automobiles are given by
 - (a) true spiral
 - (b) Bernoullis Lemniscate
 - (c) cubic parabola
 - (d) clothoid spiral
- 58. If deflection angles are measured in a closed traverse, the difference between the sum of the right-hand and that of the left hand angles should be equal to
 - (a) 0°
 - (b) 90°
 - (c) 180°
 - (d) 360°

- 59. For indirect ranging, number of ranging rods required, is
 - (a) 1
 - (b) 2
 - (c) 3
 - (d)4
- 60. Pantagraphis used for
 - (a) measuring distances
 - (b) measuring areas
 - (c) Enlarging or reducing plans
 - (d) setting out right angles
- 61. Mile Stone charts were invented in the year of
 - (a) 1920
 - (b) 1820
 - (c) 1580
 - (d) 1940
- 62. The most popular type of organisation used for Civil Engineering Constructions is
 - (a) line organisation
 - (b) line and staff organisation
 - (c) functional organisation
 - (d) efective organisation
- 63. The difference between the time avail-to do a job and the time required todo the job, is known as
 - (a) event
 - (b) float
 - (c) Duration
 - (d) constraint
- 64. The most reliable estimate is

- (a) Preliminary estimate
- (b) Detailed estimate
- (c) Plinth area estimate
- (d) Cuberate estimate
- 65. The damp proof course (D.P.C.) is measured in
 - (a) Cub.m
 - (b) Sqm
 - (c) Metres
 - (d) None of these
- 66. The assumption on which the trapezoidal formula for volumes is based, is
 - (a) The end sections are parallel planes
 - (b) The mid-area of a pyramid is half the average area of the ends
 - (c) The volume of the prismoidal is over-estimated and hence a prismoidal correction is applied
 - (d) All the above
- 67. The area is measured correct to the nearest
 - (a) 0.01 sqm
 - (b) 0.02 sgm
 - (c) 0.03 sqm
 - (d)0.04 sqm
- 68. Two-point perspective is also known as
 - (a) Two-view perspective
 - (b) Regular perspective
 - (c) Parallel perspective
 - (d) Angular perspective
- 69. This type of projection is when projectors are parallel to each other, but are at an angle other than 90 degrees to the plane of projection:

- (a) Oblique projection
- (b) Perpendicular projection
- (c) Aesthetic projection
- (d) Angular projection
- 70. These drawings are given to contractors to perform work or manufacture individual parts
 - (a) Assembly details
 - (b) 3D drawings
 - (c) Working drawings
 - (d) Skeleton assemblies
- 71. The kiln which may work regularly throughout the year
 - (a) Bull's trench kiln
 - (b) Stay-down killn
 - (c) Refractory kilin
 - (d) Hoffman's kiln
- 72. Wall thickness of hollow bricks about
 - (a) 20mm to 25mm
 - (b) 20cm to 25cm
 - (c) 10mm to 15mm
 - (d) 10cm to 15cm
- 73. The red colour obtained for the brick is due to the presence of
 - (a) Alumina
 - (b) Silica
 - (c) Ironoxide
 - (d) Magnesium
- 74. The defect due to improper sawing of timber is called
 - (a) Diagonal grain
 - (b) Bow

	Druxiness Foxiness
lev	Girth of the trees are to be measured at a height above the ground el 0.75m
(b)	1m 2m
	2m
(a) (b) (c)	The first voussoir at the springing level on either side of the arch is called Skewbak Keyblock Springer Haunch
(a) (b) (c)	The truss can be used for long span of about 30m. King post Mansard Shellroof Bel-fast
(a) (b) (c)	A queen post roof truss is suitable for roofs to span varying from 5 to 8m 8 to 12m 12to 15 m 4 to 6m
as	The edge formed by the intersection of plane surface of brick are known Prepends

(b) Arrises

(c) Frog

- (d) Bed
- The maximum differential settlement in case of foundation on clayey soil is usually limited to
 - (a) 40mm
 - (b) 60mm
 - (c) 80mm
 - (d) 100mm
- 81. Where is the Indus Civilization city Lothal?
 - (a) Maharashtra
 - (b) U.P
 - (c) Assam
 - (d) Gujarat
- Which river crosses the equator twice? 82.
 - (a) Congo
 - (b) Amazon
 - (c) Nile
 - (d) Huang ho
- 83. Where did the Black Hole Tragedy took place?
 - (a) Murshidabad
 - (b) Malapuram
 - (c) Culcutta
 - (d) Pune
- 84. Who was known as Akbar of British India
 - (a) Arthur wellesley
 - (b) Richard wellesely
 - (c) Delhousie
 - (d) Lord Curzon

- 85. Who was the "Political Guru" of Mahathma Gandhi?
 - (a) Gopalakrishna gokhale
 - (b) Tagore
 - (c) Wallabhai pattel
 - (d) B G Tilak
- 86. Whose birth anniversary is celebrated as national Women's day on Feb.
 - 13 in India
 - (a) Indira Gandhi
 - (b) Sarojini Naidu
 - (c) Aruna Asif Ali
 - (d) Vijayalakshmi Pandit
- 87. Which is the first indian state to present "paperless" Budget
 - (a) Kerala
 - (b) Sikkim
 - (c) Himachal Pradesh
 - (d) Thelungana
- 88. National Children's museum is situated at
 - (a) Mumbai
 - (b) New Delhi
 - (c) Kollam
 - (d) Chennai
- 89. The battle between Alexander and Porus took place on the bank of river
 - (a) Sutlej
 - (b) Chinab
 - (c) Jhelum
 - (d) Yamuna
- 90. Prime Minister Narendra Modi on 25 December 2015 inaugurated: newly-built Parliament House of which country?

- (a) Afghanistan
- (b) Nepal
- (c) Bhutan
- (d) Sri Lanka
- 91. The first Persian ruler who occupied part of Indian Territory was
 - (a) Cyrus
 - (b) Darius
 - (c) Cambyses
 - (d) Xerxes
- Who is the author of the book "Nineteen Eighty Four" 92.
 - (a) Thomas Hardy
 - (b) Walter Scott
 - (c) Emile Zola
 - (d) George Orwell
- Who is the author of the book: 'silent spring'? 93.
 - (a) Rachel Carson
 - (b) T.S. Eliate
 - (c) Arundhathi Roy
 - (d) Emile Zola
- Who among the following got the Kerala state film award 2015 for the best actor?
 - (a) Sudevinair
 - (b) Mohanlal
 - (c) Suraj venjaramoodu
 - (d) None of these
- Which state gives Mewar Award? 95.
 - (a) Panjab
 - (b) Rajasthan

- (c) Hariyana
- (d) Maharashtra
- 96. The first recipient of Rajiv Gandhi's Khel Ratna award is
 - (a) Viswanathan Anad
 - (b) Sachin Tendulkar
 - (c) P.T. Usha
 - (d) Kapil Dev
- 97. Which renaissanceleaderin Kerala started "Vidhya poshini sabha" (a) Vaghhadandha
 - (b) Brahmananda Shivayogi
 - (c) Sahodaran Ayyappan
 - (d) None of these
- 98. Who organised 'Savarna jatha' in Vaikom sathyagraha
 - (a) Mannath padmanabhan
 - (b) K. Kelapan
 - (c) Chattambi swamikal
 - (d) A.K.Gopalan
- 99. Where did the 1st ODI match was played in India?
 - (a) Mumbai
 - (b) Ahmedabad
 - (c) Banglore
 - (d) Delhi
- 100. Who is the father of Geometry?
 - (a) Pythagoras
 - (b) Aristotle
 - (c) Euclid
 - (d) Kepler