

**PSC Grade I Draftsman / Grade II
Overseer - Civil - Public Works/
Irrigation/ Harbour Engineering /
Ground Water Examination
Previous Year Question Paper**

*Exam Name: Grade I Draftsman / Grade II
Overseer - Civil - Public Works/ Irrigation/
Harbour Engineering / Ground Water*

Date of Test : 19.01.2016

Question Paper Code: 011/2016

Medium of Questions: English



1. Concurrent forces are those forces whose line of action
 - A) Meet at one point
 - B) Lie on the same line
 - C) Meet on the same plane
 - D) None of these
2. The angle between two forces when the resultant maximum and minimum respectively are
 - A) 0° and 180°
 - B) 180° and 360°
 - C) 90° and 180°
 - D) 90° and 360°
3. When the spring of a watch is wound, it will possess
 - A) Strain
 - B) Kinetic energy
 - C) Heat energy
 - D) Electrical energy
4. The moment of inertia of a rectangular section 3 cm wide and 4 cm deep about X-X axis is
 - A) 9 cm^4
 - B) 12 cm^4
 - C) 16 cm^4
 - D) 20 cm^4
5. Which of the following is not an integral part of computer ?
 - A) CPU
 - B) Mouse
 - C) Monitor
 - D) UPS
6. The total motion possessed by a body, is called
 - A) Impulsive force
 - B) Mass
 - C) Weight
 - D) Momentum
7. The timber whose thickness is less than 5 cm and the width exceeds 12 cm, is called a
 - A) Board
 - B) Plank
 - C) Batten
 - D) Log
8. A fine aggregate is one whose particle are of size
 - A) 4.75 mm
 - B) Below 4.75 mm
 - C) 6.75 mm
 - D) Above 6.75 mm
9. Seasoning of timber is done
 - A) To make it water proofing
 - B) To paint it surfaces
 - C) To heat it
 - D) To remove water
10. Final setting time of cement should not more than
 - A) 5 hours
 - B) 10 hours
 - C) 30 minutes
 - D) 1 hour

011/2016



42. Standard rail gauge is
A) 1000 mm
B) 1435 mm
C) 1524 mm
D) 1676 mm
43. The only type of sleeper to be provided over rail bridge
A) Steel sleeper
B) Cast iron sleeper
C) Wooden sleeper
D) Concrete sleeper
44. Coning of wheels is provided
A) To save material of wheels
B) To suit super elevation
C) To give dynamic stability
D) To prevent lateral slip
45. The best primer used for structural steel work is
A) Red lead
B) Zinc oxide
C) White lead
D) Iron oxide
46. Rolling of road should be
A) From centre to edge
B) From one edge to another
C) From edge to centre with an overlap of minimum 30 cm
D) From edge to centre
47. The height of the cone in slump test is
A) 20 cm
B) 30 cm
C) 45 cm
D) 60 cm
48. The bricks arranged projecting in alternate courses for the purpose of bonding future work is called
A) Lacing
B) Throating
C) Stooling
D) Tothing
49. The estimating, for plastering usually no deduction is made for
A) Ends of beam
B) Small opening
C) Ends of rafters
D) All the above
50. In a detailed estimate the provision for contingencies is, usually
A) 1%
B) 3 to 5%
C) 10%
D) 12 to 15%

A

51. In preparing cement concrete by volume the size of the wooden box used to measure aggregate is
A) $35 \times 25 \times 40$ cm
B) $35 \times 30 \times 40$ cm
C) $40 \times 25 \times 30$ cm
D) $30 \times 30 \times 30$ cm
52. The standard width of asbestos cement corrugated sheet is
A) 1.25 m
B) 1.05 m
C) 1.0 m
D) 0.9 m
53. A work costing less than Rs. 20,000 is termed as
A) Minor work
B) Casual work
C) Petty work
D) Major work
54. The most economical section for a column is
A) Square section
B) Circular section
C) Rectangular section
D) Tubular section
55. In multistoried government buildings, the floor height is usually restricted to
A) 4.2 m
B) 3.4 m
C) 2.4 m
D) 3.0 m
56. The sum of tread and rise should be lie between
A) 40 to 45 cm
B) 55 to 60 cm
C) 50 to 55 cm
D) 35 to 40 cm
57. When a chain is used at a temperature more than the temperature, it was calibrated the error in measured length will be
A) Observational
B) Negative
C) Cumulative
D) Compensating
58. Any arbitrarily assumed level line from which vertical distances are measured is known as
A) Level line
B) Horizontal line
C) Vertical line
D) Datum line
59. Which of the following instrument is used for measurement of angles ?
A) Tellurometer
B) Geodimeter
C) Sextant
D) Telescope

60. Four wires are made of the same material which of these will have the largest extension when the same tension is applied ?
 A) Length 50 cm and diameter 0.5 mm
 B) Length 100 cm and diameter 05 mm
 C) Length 200 cm and diameter 2 mm
 D) Length 300 cm and diameter 3 mm
61. Pitot tube is a device used in the flowing fluid for measuring
 A) Discharge
 B) Velocity
 C) Pressure
 D) Kinetic energy
62. A man sitting in a boat which is flowing in a pond. If the man drinks some water from the pond, the level of water in the pond will
 A) Sink little
 B) Rise little
 C) Remain stationary
 D) None of these
63. Type of bond in brick masonry in which each course consists of alternate headers and stretcher is called
 A) English bond
 B) Flemish bond
 C) Stretcher bond
 D) Header bond
64. The extension of wall above the roof level is called
 A) Retaining wall
 B) Dummy wall
 C) Breast wall
 D) Parapet wall
65. In a single day the maximum height of masonry to be raised should not be more than
 A) 0.5 m
 B) 1 m
 C) 1.5 m
 D) 2 m
66. The horizontal member of a frame employed to sub-divided a window opening horizontally is called
 A) Sill
 B) Mullion
 C) Transom
 D) Horn
67. The term pitch in connection with pitched roofs is defined as the
 A) Apex line of the slopping roof
 B) Inclination of the sides to the horizontal plane of the roof
 C) Horizontal distance between the internal faces of the walls
 D) Valley line of the pitched roof

68. A solid construction put across the river to raise its water level and divert the water into the canal known as
- A) Weir
B) Marginal bund
C) Barrage
D) Dam
69. In leveling height of instrument is
- A) Reduced level of bench mark + back sight
B) Reduced level of bench mark + fore sight
C) Reduced level of bench mark + Intermediate sight
D) Back sight + fore sight
70. During leveling if back sight is more than fore sight, then
- A) Forward staff point is lower than backward staff point
B) Backward staff point is lower than forward staff point
C) Difference in level cannot be measured
D) None of the above
71. A couple produces
- A) Translator motion
B) Rotational motion
C) Combined translator and rotational motion
D) None of the above
72. A beam encastered at both ends is called
- A) Simply supported beam
B) Fixed beam
C) Continuous beam
D) Cantilever beam
73. The slenderness ratio is the ratio of
- A) Area of the column to least radius of gyration
B) Length of column to least radius of gyration
C) Least radius of gyration to area of column
D) Least radius of gyration to length of column



74. A reinforced cement concrete beam is considered to be made of
- A) Homogeneous material
 - B) Heterogeneous material
 - C) Composite material
 - D) Isotropic material
75. Factor of safety is defined as the ratio of
- A) Ultimate stress to working stress
 - B) Working stress to ultimate stress
 - C) Breaking stress to ultimate stress
 - D) Ultimate stress to breaking stress
76. The mercury does not wet the glass. This is due to the property of the liquid known as
- A) Cohesion
 - B) Adhesion
 - C) Viscosity
 - D) Surface tension
77. The pressure at a point 4 m below the free surface of water is
- A) 19.24 kPa
 - B) 29.24 kPa
 - C) 39.24 kPa
 - D) 49.24 kPa
78. A weir, generally used as spillway of a dam is
- A) Narrow crested weir
 - B) Broad crested weir
 - C) Ogee crested weir
 - D) Submerged weir
79. The magnetic bearing of a line is $55^{\circ}30'$ and the magnetic declination is $4^{\circ}30'$ west. The true bearing of a line will be
- A) 30°
 - B) $34^{\circ}30'$
 - C) 49°
 - D) 51°
80. Irrigation canals are generally aligned along
- A) Contour line
 - B) Water shed
 - C) Straight line
 - D) Valley line



81. The spacecraft launched by NASA in 2006 to study the dwarf planet Pluto
A) Orion
B) New Horizons
C) Curiosity
D) Endeavour
82. Present Israeli Prime Minister
A) Ehud Olmert
B) Ariel Sharon
C) Ehud Barak
D) Benjamin Nethanyahu
83. Maggi is a product of
A) Hindustan Uniliver
B) Glaxo Smithkline
C) Cadbury
D) Nestle
84. Scientist have recently nicknamed the brightest galaxy after a famous footballer. Who is he ?
A) Ronaldo
B) Pele
C) Messi
D) Maradona
85. 'Ithihaasathinte Ithalukal' a re-interpretation of Ramayana was written by
A) B. Sandhya
B) K. R. Meera
C) M. P. Veerendrakumar
D) George Onakkur
86. In which of the following river is the Majuli River Island situated ?
A) Ganga
B) Godavari
C) Kaveri
D) Brahmaputra
87. Palk Straits separates India from
A) Sri Lanka
B) Pakistan
C) Myanmar
D) Maldives
88. The Banihal Pass is on
A) Greater Himalayas
B) Zaskar
C) Ladakh
D) Pir Panjal
89. Name the river that feeds the canal system of the Bhakra Nangal Project.
A) Ravi
B) Chinab
C) Satluj
D) Jhelum
90. The famous Soochipara eco-tourism centre is situated in which district ?
A) Palakkad
B) Idukki
C) Wayanad
D) Pathanamthitta
91. Who led the Revolt of 1857 at Lucknow ?
A) Bahadur Shah II
B) Beegum Hazrat Mahal
C) Nana Saheb
D) Jhansi Rani

01/1/2016



92. 'A Gift to Monotheists' was written by
A) Iswara Chandra Vidyasagar
B) Swami Dayananda Saraswathi
C) Raja Ram Mohan Roy
D) Swami Vivekananda
93. The organization which is related with Kakori Conspiracy
A) Gadar Party
B) Abhinav Bharat Society
C) Hindustan Republican Association
D) Anusheelan Samithi
94. Bhagat Singh was hanged in 1931 March 23 at
A) Lahore Jail
B) Tihar Jail
C) Yervada Jail
D) Cellular Jail
95. The Viceroy at the time of Salt Satyagraha
A) Irwin
B) Ripon
C) Chelmsford
D) Stafford Cripps
96. The Ezhava Memorial was submitted to
A) Chithira Tirunal
B) Sri Mulam Tirunal
C) Swathi Tirunal
D) Avittom Tirunal
97. Name the book written by Brahmananda Sivayogi.
A) Lalithopaharam
B) Vivekachoodamani
C) Ananda Sutram
D) Chinta Tarangam
98. The first editor of 'Swadeshabhimani' C. P. Govinda Pillai had earlier worked as the editor of
A) Pachimodayam
B) Rajya Samacharam
C) Deepika
D) Kerala Panchika
99. Sadhu Jana Paripalana Yogam was founded in
A) 1905
B) 1907
C) 1893
D) 1885
100. In which year Sri Narayana Guru founded an Advaita Ashram at Aluva ?
A) 1888
B) 1913
C) 1903
D) 1896