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WORKS \_ IRRIGATION \_  
HARBOUR  
ENGINEERING  
\_ GROUND WATER  
2016\_English



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



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) Toothing

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%

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 sloping 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





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)  $30^{\circ}$
- B)  $34^{\circ}30'$
- C)  $49^{\circ}$
- D)  $51^{\circ}$

80. Irrigation canals are generally aligned along

- A) Contour line
- B) Water shed
- C) Straight line
- D) Valley line





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 Advaitha Ashram at Aluva ?  
 A) 1888      B) 1913      C) 1903      D) 1896