124/2017

| Question Booklet Alpha Code | **A** | Question Booklet Serial Number | |

| **Total Number of Questions : 100** | **Time : 75 Minutes** |
| **Maximum Marks : 100** | |

1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. **A, B, C & D**.

2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.

3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.

4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.

5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.

6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.

7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.

8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.

9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**

10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.

11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**

12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.

13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

A

124/2017

1. An interpretation of the Constitution of India is based on the spirit of :

   (A) Preamble

   (B) Fundamental Rights

   (C) Directive Principles of State Policy

   (D) Federal System

2. Which article of the Indian Constitution provides for co-operation between states (Inter State Council) ?

   (A) Article 370   (B) Article 300   (C) Article 263   (D) Article 111

3. According to UN's Sustainable Development Solutions Network (SDSN) 'World Happiness Report 2017', which of the following country is the "World's Happiest Country" ?

   (A) Burundi   (B) Norway   (C) Australia   (D) Switzerland

4. Which Indian Prime Minister inaugurated the Kudumbashree (women empowerment and poverty eradication program) project at Malappuram ?

   (A) Manmohan Singh   (B) P.V. Narasimha Rao

   (C) Deve Gowda   (D) Atal Bihari Vajpayee

5. 'Brahmavidya Panchakam' is a Sanskrit work of _____ .

   (A) Sree Sankaracharya   (B) Sree Narayana Guru

   (C) Chattambi Swamikal   (D) Brahmananda Sivayogi

6. Which socio-political activist in Kerala was known as 'Mithavadi' ?

   (A) C. Sankaran   (B) K.P. Kesava Menon

   (C) C. Krishnan   (D) C. Kesavan

7. To ameliorate the conditions of the urban slum dwellers living below the poverty line without adequate shelter, the Central Government (2001) launched the housing scheme :

   (A) VAMBAY   (B) PMAY   (C) PMJDY   (D) IAY

8. "The Directive Principles of State Policy" is just like a cheque on bank payable at the convenience of the bank - who made this remark ?

(A) Dr. B.R. Ambedkar   (B) N.G. Ranga

(C) Jawaharlal Nehru   (D) Prof. K.T. Shah

9. Which of the following work is **'not'** related to Kumaran Ashan ?

(A) Vanamaala   (B) Pushpavaadi   (C) Veena Poovu   (D) Vishukkani

10. Which of the following is the translation of 'The Slayer Slain' ?

(A) Khadaka Vadham   (B) Indilekha

(C) Saarada   (D) Dharmaraja

11. The drama written by Satheesh. K. Satheesh based on the novel 'The God of Small Things' :

(A) Kochu Swapnagalude Thampuran

(B) Rose Mary Prayanirunnathu

(C) Ilakal Manja Pookkal Pacha

(D) Kanjana Kood

12. "Atmakatha", which won the 2011 Kerala Sahitya Akademi Award (Autobiography), was written by :

(A) T.N. Gopakumar   (B) K.R. Gowri Amma

(C) Arya Pallam   (D) Lalithambika Antharjanam

13. The 'Maharaja's Free School', founded by Maharaja Swathi Thirunal in 1834 with Mr. John Roberts, was the beginning of :

(A) Maharaja's College, Ernakulum   (B) University College, Thiruvananthapurum

(C) Government College, Attingal   (D) CMS College, Kottayam

14. Guru Ammannur Madhava Chakyar, Master of classical Sanskrit theatrical form Koodiyattam, received Padma Bhushan in :

(A) 1982   (B) 1992   (C) 2003   (D) 2002

15. Which of the following statement is/are 'not correct' about Aadhar Card (UID) ?

    (A) The UID number has 12 digits

    (B) The UID is alpha numeric

    (C) Represents biometric and demographic data

    (D) UIDAI is a statutory authority

16. 'Nellikkampetti Game Sanctuary' was the old name of :

    (A) Parambikkulum Tiger Reserve   (B) Silent Valley National Park

    (C) Periyar Tiger Reserve   (D) Muthanga Wildlife Sanctuary

17. What is the relation between "Buceros bicornis" and Kerala State ?

    (A) A common Mosquito visible in Kerala

    (B) A common bird visible all over Kerala

    (C) Kerala's State Bird

    (D) A back water fish

18. Theresa May, second women Prime Minister of Britain, belongs to which political party ?

    (A) Conservative Party   (B) Democratic Party

    (C) Labour Party   (D) Republican Party

19. Kerala Kaumudi, the popular Malayalam newspaper, founded in 1911 by :

    (A) K.P. Kesava Menon   (B) M.C. Varghese

    (C) T.K. Madhavan   (D) C.V. Kunhuraman

20. Which was the capital of Thiru-Kochi or United State of Travancore and Cochin (1949-56) ?

    (A) Thrissur   (B) Padmanabhapuram

    (C) Thrippunithura   (D) Trivandrum

21. Turpentine oil is used in paints as :

    (A) Thinner   (B) Vehicle   (C) Drier   (D) Base

22. The function of Gypsum in cement is :

(A) To increase strength   (B) To increase initial setting time

(C) To decrease initial setting time   (D) To increase final setting time

23. Moorum is a _____ rock.

(A) Metamorphic   (B) Sedimentary   (C) Igneous   (D) None of these

24. Which of the following purpose served as admixtures ?

(A) Improve workability   (B) Retard setting action

(C) Reduce bleeding   (D) All the above

25. Which of the following one is example for endogenous trees ?

(A) Deodar   (B) Chir   (C) Palm   (D) Kail

26. Due to the defects, the curvature formed in the direction of length of timber is called :

(A) Bow   (B) Split   (C) Cup   (D) Shake

27. In brass the percentage of Copper and Zinc is _____ and _____ respectively.

(A) 60, 40   (B) 88, 12   (C) 40, 60   (D) 12, 88

28. The projecting course at ground floor level is known as :

(A) String course   (B) Lacing course   (C) Plinth course   (D) None of these

29. Which type stone joint is suitable for heavy lateral pressure ?

(A) Butt joint   (B) Rebated Joint   (C) Joggle joint   (D) Table joint

30. In stone masonry, to make level surface _____ tool is used.

(A) Drag   (B) Boaster   (C) Axe   (D) Punch

31. The ability of a metal to cut another metal is called :

(A) Toughness   (B) Malleability   (C) Hardness   (D) Tenacity

32. The sum of any two sides of a triangle is _____ the third side.

(A) Same   (B) Less than   (C) Greater than   (D) None of these

33. 1HP equal to _____ watts.

(A) 100   (B) 1000   (C) 735.5   (D) 9.8

34. Poisson's ratio is the ratio of :

(A) Lateral strain to linear strain   (B) Ultimate stress to working stress

(C) Shear stress to shear strain   (D) Change in length to original length

35. A right angled triangle revolving about its perpendicular side forming a _____ solid.

(A) Pyramid   (B) Frustum   (C) Prism   (D) Cone

36. Which of the following chemicals are used for termite proofing ?

(A) Chlorine   (B) Aldrin   (C) Sodium   (D) None of these

37. Generally _____ flooring is not recommended for bath rooms and kitchen.

(A) Linoleum   (B) Terrazo   (C) Tile   (D) Marble

38. A _____ window its construction is similar to door construction called.

(A) Dormer   (B) Bay   (C) Gable   (D) Casement

39. A Florentine arch is good example for _____ centred arch.

(A) Three   (B) Two   (C) One   (D) Four

40. The inclined member of a stair which supports the ends of step is known as :

(A) Baluster   (B) Hand rail   (C) String   (D) Flight

41. Which of the following is used for vertical movement ?

(A) Ramps   (B) Stair   (C) Escalator   (D) All of these

42. The position of main reinforcement in concrete lintel should be :

(A) The centre   (B) The bottom   (C) The side   (D) The top

43. The rafters which are provided at the junction of two roof slope is called :

(A) Jack rafter   (B) Common rafter

(C) Hip rafter   (D) Principal rafter

44. The triangular upper part of a wall formed the end of pitched roof is called :

(A) Gable   (B) Valley   (C) Hip   (D) Eaves

45. Which of the following materials used for DPC ?

(A) Bitumen   (B) Stones   (C) Mortar   (D) All of these

46. The pitch of the stair should be limited to :

(A) 30° - 40°   (B) 20° - 25°   (C) 45° - 50°   (D) 30° - 60°

47. Which type stair is suitable if the space available is 2m × 2m ?

(A) Dog legged stair   (B) Open newel stair

(C) Bifurcated stair   (D) Spiral stair

48. _____ Type foundation is suitable where there is possibility of unequal settlement to occur.

(A) Grillage foundation   (B) Spread footing

(C) Pile foundation   (D) Raft foundation

49. Which of the following is three different grade according to BIS ?

(A) 33, 34 and 35   (B) 23, 33 and 43   (C) 33, 43 and 53   (D) 63, 73 and 83

50. As per the Rankine's formula depth of foundation d =

(A) $p/w\{1-\sin\theta/1-\sin\theta\}^2$ (B) $p\times w\{1-\sin\theta/1-\sin\theta\}^2$

(C) $p+w\{1-\sin\theta/1-\sin\theta\}$ (D) $p/w\{1+\sin\theta/1+\sin\theta\}^2$

51. Which of the following data is necessary for making an estimate ?

(A) Plan   (B) Section   (C) Specification   (D) All the above

52. Which of the following aspects that are considered in specifying the value of FAR ?

(A) Type occupancy   (B) Type of construction

(C) Parking facilities   (D) All the above

53. If the circumference of a circle is 44 cm. its area is equal to :

(A) 74 cm^2 (B) 154 cm^2 (C) 145 cm^2 (D) 85 cm^2

54. Which stress is formed when the section is subjected to axial pushes ?

(A) Tensile stresses   (B) Compressive stresses

(C) Shear stress   (D) Plain stresses

55. A process which is adopted to make the steel soft called :

(A) Normalising   (B) Annealing   (C) Tempering   (D) Hardening

56. The purpose of given heat treatment is :

(A) To soften the metal   (B) To resist wear

(C) To cut miscellaneous metal   (D) All of the above

57. A cylindrical magnet has _____ Poles.

(A) One pole   (B) Two poles   (C) Four poles   (D) None of these

58. A constituent which is used for drying paint is known as :

(A) A base   (B) Drier   (C) Vehicle   (D) Pigment

59. For proper lighting, the area of windows in room should not be less than _____ of the floor area.

(A) $\frac{1}{2}^{th}$ (B) $\frac{1}{10}^{th}$ (C) $\frac{1}{5}^{th}$ (D) $\frac{14}{20}^{th}$

60. A course of stone or bricks having a curve similar to that of the arch known as :

(A) Voussoirs   (B) Arch ring   (C) Haunch   (D) Depth of arch

61. The line connecting a view to note is called :

(A) Dimension line   (B) Projection line   (C) Leader   (D) Arrowheads

62. The total internal angle of regular hexagon is _____ degree.

(A) 620   (B) 600   (C) 720   (D) 120

63. 'Representative Fraction '(RF) is defined as :

(A) Length of an object in the drawing/Actual length of the object

(B) Length of an object in the drawing/Isometric length of the object

(C) Actual length of the object/Length of an object in the drawing

(D) Isometric length of the object/Length of an object in the drawing

64. A point 'P' is above Horizontal Plane (HP) and in front of Vertical Plane (VP). The point is in :

(A) First quadrant   (B) Second quadrant

(C) Third quadrant   (D) Fourth quadrant

65. The following is **not** included in title block of drawing sheet :

(A) Sheet No.   (B) Scale

(C) Method of projection   (D) Size of sheet

66. In an aligned system of dimensioning, the dimension may be read from :

(A) Bottom or right hand edges   (B) Bottom or left hand edges

(C) Only from bottom   (D) Only from left side

67. A line with a tapering width can be easily created by using the _____ tool.

(A) Circle   (B) Eclipse   (C) Line   (D) Polyline

68. Which of the following object gives a circular section, when it is cut completely by a section plane (irrespective of the angle of the section plane) ?

(A) Cylinder   (B) Sphere   (C) Cone   (D) Circular lamina

69. Comparative scale is a pair of scale having a common :

(A) Units   (B) Representative fraction

(C) Length of scale   (D) Least count

70. The curve generated by a point on the circumference of a circle, which rolls without slipping along outside of another circle is known as :

(A) Hypocycloid   (B) Epicycloid   (C) Cycloid   (D) Trochoid

71. In perspective drawings this is placed between the observer and the object :

(A) Vanishing point/horizon   (B) Station point

(C) Ground line   (D) Plane of projection/picture plane

72. If the Vertical Trace (V.T) of a line lies 30 mm above reference line (XY), then its position will be :

(A) 30 mm in front of V.P   (B) 30 mm behind of V.P

(C) 30 mm above of H.P   (D) 30 mm below of V.P

73. The size of A0, drawing paper is :

(A) 594 × 841 mm   (B) 841 × 1189 mm   (C) 420 × 594 mm   (D) 297 × 420 mm

74. Two point perspective is also known as :

(A) Two-view perspective   (B) Regular perspective

(C) Parallel perspective   (D) Angular perspective

75. When a cone is cut by a plane perpendicular to the axis, the curve generated is _____ .

(A) Circle   (B) Parabola   (C) Hyperbola   (D) Ellipse

76. A line is parallel to VP inclined to HP then it has _____ .

(A) Both HT and VT   (B) No VT only HT

(C) VT no HT   (D) No VT and HT

77. A line is perpendicular to HP and parallel to VP its front view is _____ to the XY line.

(A) Parallel   (B) Perpendicular

(C) On the XY line   (D) Both (B) and (C)

78. The least count of vernier bevel protractor is _____ .

(A) 5°   (B) 15'   (C) 5''   (D) $\frac{1°}{12}$

79. A plug gauge which has its 'Go' and 'No Go' sizes on the same end is known as :

(A) Single ended plug gauge   (B) Double ended plug gauge

(C) Progressive plug gauge   (D) Continuous plug gauge

80. Drill size for 10 mm reamer is _____ .

(A) 9 mm   (B) 8.5 mm   (C) 9.5 mm   (D) 9.75 mm

81. The size of bench vice is specified by _____ .

(A) Weight   (B) Width of jaw

(C) Length of spindle   (D) Length of movable jaw

82. Roughness value corresponding to N12 roughness grade is _____ .

(A) 1.6 micron   (B) 25 micron   (C) 50 micron   (D) 0.1 micron

83. The angle of BSW thread is _____ .

(A) 60°   (B) 50°   (C) 55°   (D) 29°

84. _____ keys are used when very high torque of impact type to be transmitted in both direction of rotation.

(A) Feather   (B) Tangential   (C) Gibhead   (D) Saddle

85. _____ nuts are used in light duty assembly which require frequent removal of fixing.

(A) Hexagonal   (B) Castle   (C) Wing   (D) Square

86. Lathe beds are made from _____ .

(A) Mild steel   (B) Wrought Iron   (C) Grey cast iron   (D) Bronze

87. Flash back and back fire occurs in _____ welding.

(A) Electric arc welding (B) Gas welding

(C) Resistance welding (D) TIG welding

88. The pulley for flat belt is generally made convex and this is called _____ .

(A) Buffing (B) Crowning (C) Moulding (D) Polishing

89. Which one of the following is used for closing a pipeline which has an internal thread ?

(A) plug (B) reducer (C) cap (D) coupling

90. The other name of non return valve is :

(A) Gate valve (B) Globe valve (C) Needle valve (D) Check valve

91. In a 'V' belt specification, c3048 IS : 2494, 3048 means _____ .

(A) The thickness of belt in mm (B) The top width of belt in mm

(C) The bottom width of belt in mm (D) Nominal inside length in mm

92. The sum of two adjacent angles are 180° then the angles are known as :

(A) Complementary angles (B) Acute angles

(C) Supplementary angles (D) Obtuse angles

93. The ratio between perimeter and diameter of a circle is _____ .

(A) π (B) Diameter (C) Radius (D) None of these

94. Hatching lines are drawn at _____ degree to reference line.

(A) 30 (B) 45 (C) 60 (D) 90

95. An angle can be set off and measured with the help of :

(A) Plane scale (B) Diagonal scale

(C) Comparative scale (D) Scale of chords

96. In orthographic projections, the rays are assumed to :

(A) Diverge from station point   (B) Converge from station point

(C) Be parallel   (D) None of these

97. If an object lies in third quadrant, its position with respect to reference planes will be :

(A) In front of V.P, above H.P   (B) Behind V.P, above H.P

(C) Behind V.P, below H.P   (D) In front of V.P, below H.P

98. ALU is _____ .

(A) Arithmetic Logic Unit   (B) Array Logic Unit

(C) Application Logic Unit   (D) None of above

99. A word processor would most likely be used to do :

(A) keep an account of money spent   (B) do a computer search in media center

(C) type a biography   (D) maintain an inventory

100. Each excel files is a workbook that contains different sheets. Which of the following can not be a sheet in workbook ?

(A) Work sheet   (B) Chart sheet   (C) Module sheet   (D) Data sheet

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SPACE FOR ROUGH WORK

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