

099/2018

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.



**099/2018**

1. The Harappan site known as 'Mound of the Dead' :  
(A) Rupar (B) Lothal (C) Kalibangan (D) Mohenjodaro
2. Haldighati Pass is situated in which of the Mountain Ranges ?  
(A) Himalayas (B) Aravally Ranges (C) Eastern Ghats (D) Western Ghats
3. The Constitutional Amendment which incorporated fundamental duties in the Indian Constitution :  
(A) 86 (B) 73 (C) 44 (D) 42
4. Which among the following firm does not have 'Maharatna' Status ?  
(A) GAL (B) BHEL (C) ONGC (D) IOC
5. The first Indian State which passed the GST Bill :  
(A) Assam (B) Gujarat (C) Kerala (D) Bihar
6. Which among the following is the programme introduced by Indian Govt. to improve banking service in rural areas ?  
(A) E. Kranthi (B) Swabhiman (C) Digital India (D) Start-up India
7. The famous aircraft carrier ship de-commissioned in 1917 by the Indian Navy :  
(A) INS Chakra (B) INS Vikramaditya  
(C) INS Viraat (D) INS Arihant
8. The Indian State which shares borders with largest number of countries :  
(A) Assam (B) Arunachal Pradesh  
(C) Jammu and Kashmir (D) Punjab

9. Which of the following won the Best Film Award in the Kerala State Film Awards, 2017 ?  
(A) Manhole (B) Anuraga Karikkin Vellam  
(C) Minnaminungu (D) Kammattipadam
10. The Indian National Congress passed 'Poorna Swaraj' resolution in it's session held at :  
(A) Calcutta (B) Madras (C) Bombay (D) Lahore
11. 'Jeevitham Oru Samaram' is the autobiography of which of the following Renaissance leader in Kerala ?  
(A) K.P. Kesava Menon (B) A.V. Kuttimalu Amma  
(C) Akkamma Cheriyan (D) C. Kesavan
12. Lucknow is situated on the bank of which of the following rivers ?  
(A) Gomti (B) Ganga (C) Sarayu (D) Yamuna
13. The first Vice Chairman of NITI Aayog in India :  
(A) Raghuram Rajan (B) Rajiv Kumar  
(C) Arun Jaitly (D) Narendra Modi
14. The biggest Gravity Dam in Kerala :  
(A) Pallivasal (B) Neryamangalam  
(C) Banasura Sagar (D) Cheruthoni
15. Sardar Singh, winner of Rajiv Gandhi Khel Ratna Award for 2017 is associated with :  
(A) Hockey (B) Billiards (C) Basketball (D) Football
16. The Renaissance leader of Kerala who established Uralumkal Labour Contract Society ?  
(A) Bodheswaran (B) Ayyankali  
(C) Vagbhatanandan (D) K.P. Karuppan

17. The famous drama 'Adukkalayil Ninnu Arangathekku' is written by :  
(A) Thoppil Bhasi (B) V.T. Bhatathirippadu  
(C) K. Dhamodaran (D) Arattupuzha Velayudhapanicker
18. The winner of Nobel Prize for literature in 2017 :  
(A) Kazuo Ishiguro (B) Patrick Modiano  
(C) Bob Dylan (D) Alice Munro
19. The author of the first novel in Malayalam language :  
(A) O. Chandumenon (B) J.C. Daniel  
(C) Appu Nedungadi (D) C.V. Kunhiraman
20. The famous 'Swadeshabhimani' newspaper was started by :  
(A) K. Ramakrishna Pillai (B) C. Krishnan  
(C) K.P. Kesava Menon (D) Vakkom Abdul Khadar Moulavi
21. Generally measuring tools are made of \_\_\_\_\_ metal.  
(A) Mild steel (B) High carbon steel  
(C) Cast iron (D) Aluminium
22. Size of Trysquare is determined by :  
(A) Length of stock (B) Width of blade  
(C) Thickness of stock (D) Length of blade
23. The \_\_\_\_\_ is used to cut parallel grooves.  
(A) Diamond point chisel (B) Half round chisel  
(C) Cross cut chisel (D) Flat chisel

24. \_\_\_\_\_ is used to correctly clean the hole.  
(A) Drill (B) Tap  
(C) Counter boring tool (D) Reamer
25. Least count of metric vernier micrometer is \_\_\_\_\_.  
(A) 0.001 mm (B) 0.01 mm (C) 0.02 mm (D) 0.002 mm
26. Micron is equal to \_\_\_\_\_.  
(A) 0.01 mm (B) 0.1 mm (C) 0.001 mm (D) 0.0001 mm
27. Gap between two matting surface is checked by :  
(A) Radius gauge (B) Feeler gauge (C) Snap gauge (D) Centre gauge
28. To remove excessive brittleness of chisel \_\_\_\_\_ is done.  
(A) Tempering (B) Hardening (C) Annealing (D) Normalizing
29. \_\_\_\_\_ is used to measure high temperature.  
(A) Thermometer (B) Barometer (C) Pyrometer (D) Calorie meter
30. Tongs are generally made of \_\_\_\_\_.  
(A) Cast iron (B) Mild steel  
(C) High carbon steel (D) Brass
31. Best conductor of heat and electricity is \_\_\_\_\_.  
(A) Copper (B) Nickel (C) Chromium (D) Aluminium
32. Smaller size of drill in number category is \_\_\_\_\_.  
(A) 1 mm (B) 0.5 mm (C) 0.35 mm (D) 0.2 mm

33. \_\_\_\_\_ is used to put coal in forge and take out ash from forge.  
(A) Tong (B) Drift (C) Shovel (D) Fuller
34. When close the pipe end is required fitting of \_\_\_\_\_.  
(A) Union (B) Socket (C) Tee (D) Cap
35. The Rolling contact bearings are known as \_\_\_\_\_.  
(A) Plain bearing (B) Anti friction bearing  
(C) Plastic bearing (D) Thrust bearing
36. For shaft in parallel and rotating in same direction the belt drive used is \_\_\_\_\_.  
(A) Diagonal (B) Cross (C) Open (D) None of these
37. A tab washer is used for \_\_\_\_\_.  
(A) Self locking (B) Locking the nut  
(C) Avoiding vibration (D) Fastening vibration work
38. Viscosity is an internal property of fluid it is a measure of its resistance to :  
(A) Flow (B) Light (C) Sound (D) Current
39. A jig is a device used for \_\_\_\_\_.  
(A) Holding the work (B) Guiding the tool  
(C) Loosening the work (D) None of these
40. Which type of thread is used for Powerpress ?  
(A) Square (B) Metric (C) B S W (D) Knuckle
41. Gun metal is an alloy of copper, \_\_\_\_\_.  
(A) Lead and Zink (B) Tin and Zink  
(C) Zink and Nickel (D) Lead and Nickel

42. Which one of the following is used to hold cylindrical rough casting for turning ?  
(A) Four jaw chuck (B) Three jaw chuck  
(C) Magnetic chuck (D) None of these
43. The most suitable pitch of hacksaw blade for cutting thin section tube is :  
(A) 1 mm (B) 1.4 mm (C) 0.8 mm (D) 1.8 mm
44. Ratchet stop in micrometer helps to :  
(A) Lock the spindle (B) Hold the work piece  
(C) Adjust zero error (D) Control the pressure
45. The horizontal feed, cross feed, and screw cutting movement, in a lathe is controlled by :  
(A) Apron (B) Head stock (C) Cross slide (D) Tail stock
46. Except \_\_\_\_\_ of the File is tempered.  
(A) Heel (B) Shoulder (C) Tang (D) Point
47. Gauges are made of :  
(A) Cast iron (B) Alloy steel (C) Mild steel (D) Cast steel
48. Which type of thread is used in lathe lead screw ?  
(A) Square Thread (B) B S W Thread (C) B A Thread (D) Acme Thread
49. Which one of the coolant is used for Reaming Aluminium workpiece ?  
(A) Water (B) Lard oil (C) Kerosene (D) Air pressure
50. The margin given in basic size is :  
(A) Tolerance (B) High limit (C) Limit (D) Actual limit



51. Scratches on the surface is known as :  
(A) Hillness (B) Roughness (C) Hill and valleys (D) Weaviness
52. What is the main purpose of annealing ?  
(A) To improve machinability (B) To improve magnetism  
(C) To increase hardness (D) To increase toughness
53. The ability of metal withstand impact load is :  
(A) Malleability (B) Toughness (C) Hardness (D) Ductility
54. Second cut file is type of :  
(A) Section (B) Grade (C) Cut (D) Design
55. Cast iron cannot be forged because it has the property of :  
(A) Softness (B) Stiffness (C) Toughness (D) Brittleness
56. The minimum distance between rivets in a rivet joint :  
(A)  $2d$  (B)  $3d$  (C)  $2.5d$  (D)  $1.5d$
57. Which rivet is most commonly used for structural work ?  
(A) Pan head (B) Snap head  
(C) Flat head (D) Counter sink head
58. This taper is used in bores of spindle noses Lathe and milling machine :  
(A) Jarno taper (B) Metric taper  
(C) Morse taper (D) Brown and Sharp taper
59. In which gear teeth are cut at an angle to the axis of rotation ?  
(A) Spur gear (B) Helical gear  
(C) Bevel gear (D) Worm and Shaft gear

60. Which pulley is fitted on the belt to increase the arc of contact ?  
(A) Stepped pulley (B) Cone pulley (C) Jockey pulley (D) Driver pulley
61. Which tool is used to form the final shape of the rivet during riveting ?  
(A) Rivet set (B) Dolly (C) Snap (D) Drift
62. A gear which changes the rotary motion into linear motion and vice-versa :  
(A) Bevel gear (B) Hypoid gear (C) Worm gear (D) Rack and Pinion
63. Hook of cranes are made up of \_\_\_\_\_.  
(A) High speed steel (B) High carbon steel  
(C) Wrought iron (D) Pig iron
64. The product of Puddling furnace is \_\_\_\_\_.  
(A) Steel (B) Pig iron (C) Cast iron (D) Wrought iron
65. Soldering iron is made of \_\_\_\_\_.  
(A) Copper (B) Tungston (C) Mild steel (D) Lead
66. The distance a drill advances into the job in one complete revolution :  
(A) RPM (B) Cutting speed (C) Machine speed (D) Feed
67. Which plug gauge has GO and NO GO end on the same side ?  
(A) Taper plug gauge (B) Ring gauge  
(C) Progressive plug gauge (D) Thread plug gauge
68. The process of joining slip gauges is known as \_\_\_\_\_.  
(A) Adhesive (B) Cohesive (C) Wringing (D) Fitting

69. When temperature rises, what will happen to the viscosity of an oil ?  
(A) Increase (B) Decrease  
(C) Increase to Decrease (D) No change
70. Reamer should always be rotated in \_\_\_\_\_ direction.  
(A) Clockwise (B) Anticlockwise  
(C) Clockwise and Anticlockwise (D) None of the above
71. Which metal is more ductile ?  
(A) Mild steel (B) Copper (C) Cast iron (D) Gun metal
72. Rough hole in drilling is due to \_\_\_\_\_.  
(A) Spindle running out of centre (B) Drill point is not sharp  
(C) Feed rate is very high (D) Unequal length of cutting lips
73. The ore of Lead is \_\_\_\_\_.  
(A) Galena (B) Boxite (C) Iron pyrites (D) Copper pyrites
74. Example of natural abrasive :  
(A) Aluminium oxide (B) Silicon carbide  
(C) Emery (D) Boron carbide
75. The relationship between two mating parts a hole and a shaft is \_\_\_\_\_.  
(A) Limit (B) Fit (C) Tolerance (D) Deviation
76. Which one of the following metal has less carbon content ?  
(A) Cast iron (B) Pig iron  
(C) Plain carbon steel (D) Wrought iron

77. In the BIS System there are \_\_\_\_\_ fundamental deviations.  
(A) 18 (B) 25 (C) 16 (D) 20
78. Which one of the following key used in automobile shaft ?  
(A) Gib head key (B) Taper key  
(C) Wood ruff key (D) Hollow saddle key
79. Centre drill is used for :  
(A) Counter boring (B) Counter sinking (C) Boring (D) Deburring
80. Bending of sheets from end is called \_\_\_\_\_.  
(A) Seam (B) Soldering (C) Hem (D) Grooving
81. Shear is the tool used for \_\_\_\_\_ operation.  
(A) Bending (B) Cutting (C) Forging (D) Twisting
82. The Head of the hammer parallel to its handle is :  
(A) Cross peen hammer (B) Ball peen hammer  
(C) Straight peen hammer (D) None of these
83. Stake is a \_\_\_\_\_ tool.  
(A) Measurement (B) Cutting (C) Supporting (D) Bending
84. \_\_\_\_\_ is used to improve internal structure of steel.  
(A) Hardening (B) Normalizing (C) Annealing (D) Tempering
85. In a grinding wheel the difference between abrasive and bond is known as :  
(A) Grit (B) Bond (C) Grid (D) Structure

86. Silicate bond is represented by \_\_\_\_\_ letter.  
(A) V (B) R (C) S (D) E
87. According to Indian standard pipe is specified by \_\_\_\_\_.  
(A) Outside diameter (B) Inside diameter  
(C) Both internal and external (D) None of these
88. Datum line is called :  
(A) Centre line (B) Base line (C) Curve line (D) Dotted line
89. Metal used for Bearing is :  
(A) Aluminium (B) Brass (C) Gun metal (D) Cast iron
90. For radius cutting \_\_\_\_\_ saw is used.  
(A) Reciprocating (B) Horizontal (C) Contour (D) None of these
91. In railway carriage coupling \_\_\_\_\_ is used.  
(A) Buttress thread (B) Knuckle thread (C) Acme thread (D) Square thread
92. The bottom surface joining the two sides of thread is called \_\_\_\_\_.  
(A) Root (B) Pitch (C) Crest (D) Lead
93. These files are known as fish back file :  
(A) Crossing file (B) Barrette file (C) Tinkers file (D) Block file
94. Which method is used for bright finishing of cylindrical surface ?  
(A) Spot facing (B) Lapping (C) Honing (D) Reaming

95. This clutch is used in two wheelers :  
(A) Dog clutch (B) Centrifugal clutch  
(C) Conical clutch (D) Magnetic clutch
96. Knuckle thread is a modified form of \_\_\_\_\_.  
(A) Acme thread (B) V thread (C) Square thread (D) Sawtooth thread
97. \_\_\_\_\_ is used to power transmission between shaft at various angles.  
(A) Spur gear (B) Bevel gear  
(C) Helical gear (D) Worm and Shaft gear
98. In a Vernier Caliper the value of one main scale division is \_\_\_\_\_.  
(A) 0.02 mm (B) 0.5 mm (C) 0.01 mm (D) 1 mm
99. Chain slings are used for :  
(A) Light load (B) Heavy load (C) Medium load (D) None of these
100. The standard length of GI pipe is \_\_\_\_\_.  
(A) 6 m (B) 5 m (C) 10 m (D) 4 m

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**SPACE FOR ROUGH WORK**

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