

1. Fillet gauges are available in standard radii from
  - A) 1.55 mm to 12 mm
  - B) 2.5 mm to 3.5 mm
  - C) 1 mm to 2 mm
  - D) 3.5 mm to 4 mm
2. The cutting edges need to be honed with special grinding stricks called
  - A) Oxide grinding wheel
  - B) Aluminium Oxide wheel
  - C) Honing strick
  - D) Carbide grinding strick
3. Form tools have a much longer cutting edge than
  - A) Special turning tool
  - B) Ordinary turning tool
  - C) Facing tool
  - D) Turning tool
4. This method of marking is used on odd shaped job
  - A) Datum line method
  - B) Centre line method
  - C) Marking by template
  - D) Marking of centre on round
5. Made of a surface plate
  - A) Cast iron
  - B) High carbon steel
  - C) Cast steel
  - D) Mild steel
6. The marking table provides a
  - A) Reference plane
  - B) Marking plane
  - C) Surface plane
  - D) Marking out
7. Angle of a prick punch
  - A) 15° to 30°
  - B) 30° to 60°
  - C) 40° to 45°
  - D) 25° to 30°
8. Scriber points are very
  - A) Multi-point
  - B) Sharp point
  - C) Single point
  - D) Knurled point
9. The hermaphrodite caliper is generally used to locate
  - A) Centre of a round job
  - B) Width of a round job
  - C) Edge of a round job
  - D) Point of a round job



28. Ball screw is primarily employed in feed mechanism of
- A) Capstan lathe  
B) Bench lathe  
C) CNC lathe  
D) NC lathe
29. Pitch diameter of threads is equal to
- A) minor diameter-2 depth  
B) major diameter-2 depth  
C) minor diameter-1 depth  
D) major diameter-1 depth
30. Calculation of the amount of offset is
- A)  $\frac{(D-d)L}{2l}$   
B)  $\frac{(D-d)l}{2L}$   
C)  $\frac{D-d}{2l}$   
D)  $\frac{d-D}{2L}$
31. The grade of accuracy of manufacture represented by number symbols both for hole and shaft ranging from
- A) 1T00 to 1T18  
B) 1T01 to 1T18  
C) 1T00 to 1T16  
D) 1T01 to 1T16
32. The algebraic difference between a size and the corresponding size is called
- A) tolerance  
B) actual size  
C) deviation  
D) minimum size
33. Recommended point angle for drilling while cast iron is
- A) 118°  
B) 125°  
C) 100°  
D) 150°
34. An abrasive wheel is marked A16P 5V, BE, where 16 indicates
- A) structure  
B) grain size  
C) grade of bond  
D) m code
35. The least count of a metric outside micrometer is
- A) 00.01 mm  
B) 0.002 mm  
C) 0.001 mm  
D) 0.01 mm

36. Rolling mill micrometer is also used for other measurements which require a
- A) slide over the job
  - B) deep throat to centre
  - C) different ranges
  - D) easily read
37. Accuracy of a dial clipper
- A) 0.002 mm
  - B) 0.001 mm to 0.002 mm
  - C) 0.01 mm
  - D) 0.02 mm
38. Dial test indicator is consist of
- A) cutter
  - B) miner
  - C) plunger
  - D) hammer
39. Use of a tool maker microscope
- A) to measure angle
  - B) to measure flatness
  - C) to measure edges
  - D) to measure the corner
40. Accuracy of a vernier bevel protractor of
- A) 0.002 mm
  - B) 5 mm to 10 mm
  - C) 5 minutes
  - D) 5 minutes to 6°
41. Random errors are also called as
- A) known errors
  - B) systematic errors
  - C) known systematic errors
  - D) accidental errors
42. A plug gauge is made of
- A) alloy steel
  - B) hardened steel
  - C) mild steel
  - D) cast steel
43. Use of a telescopic gauge
- A) inside slots of holes
  - B) outside hole
  - C) corner side of a hole
  - D) depth of hole
44. Very common sine bar is a
- A) 250 mm
  - B) 100 mm
  - C) 150 mm to 200 mm
  - D) 50 mm to 10 mm



45. Limit depth gauge is made of  
A) cast iron  
B) mild steel  
C) plate  
D) aluminium plate
46. Measuring instrument of a chordal thickness of the teeth  
A) vernier caliper  
B) vernier tooth gauge  
C) outside micro meter  
D) slip gauge
47. The principle of the sine bar is as  
A)  $\sin A = P/H$   
B)  $\sin AB = H/P$   
C)  $\sin H = P/H$   
D)  $\sin A = H/P$
48. The most commonly used slip gauge is a set of  
A) 92 pieces  
B) 83 pieces  
C) 86 pieces  
D) 81 pieces
49. Single cut files are used for filing  
A) hard metal  
B) soft metal  
C) tempered metal  
D) ductile metal
50. Warding file is useful for cutting is  
A) grooves  
B) narrow slots  
C) safe edge  
D) corner stand slots
51. While filing clogging of teeth by chips is known as  
A) taper of file  
B) pitch of file  
C) pinning of file  
D) stroke of file
52. The average speed for filing strokes per minute  
A) 10 to 60 strokes  
B) 15 to 50 strokes  
C) 40 to 45 strokes  
D) 40 to 60 strokes
53. Oil tube drill is used for  
A) centre drilling  
B) deep hole drilling  
C) core drilling  
D) flat drilling

54. Cutting speed of alloy steel  
 A) 10 – 20 m/min  
 B) 6 – 8 m/min  
 C) 5 – 8 m/min  
 D) 4 – 8 m/min
55. These are the open-coiled helical spring is called  
 A) leaf springs  
 B) open-ended helical compression spring  
 C) helical compression spring  
 D) wire spring
56. Phenolic resins are used as thermo setting adhesives to join  
 A) resistant to oil  
 B) glass to metal  
 C) water and solvent  
 D) oil to water
57. How many type of belt drives ?  
 A) three types  
 B) four types  
 C) two types  
 D) one type
58. This fastener is suitable for belts which are used on heavy duty machine which type  
 A) Wire type  
 B) Lagrelle type  
 C) Jackson type  
 D) Creseen type
59. Calculation formula of a open belt drive  
 A)  $D \cdot N = d \cdot n$   
 B)  $n = D \cdot N / d$   
 C)  $D = d \cdot n / N$   
 D)  $L = 2c \cdot 1.57 (D+d) + \frac{(D-d)^2}{4c}$
60. Helical gear its form is cylindrical but teeth are  
 A) spur gear  
 B) helical gear  
 C) spiral formation  
 D) parallel formation
61. This type of 'cam' the follower moves in the grove of cam  
 A) grooved plate cam  
 B) wire cam  
 C) radical cam  
 D) cylindrical cam



62. These alloys are suitable for heavy duty bearing
- A) cadmium base alloys
  - B) white metal
  - C) aluminium base metal
  - D) copper head alloy
63. In standard system of limits and fits
- A) allowance
  - B) hole basis system
  - C) shaft basis system
  - D) negative allowance
64. The clearance is not sufficient to allow the shaft to rotate
- A) push fit
  - B) tight fit
  - C) wringing fit
  - D) force fit
65. Symbols for direction of lay multi-directional
- A) D
  - B) m
  - C) Dm
  - D) Lm
66. Grade no: N2 of the roughness symbol
- A) II
  - B)  $\overline{W}$
  - C)  $\overline{WW}$
  - D)  $\overline{WV}$
67. A final finishing operation is
- A) lapping
  - B) filing
  - C) chipping
  - D) honing
68. Sheardizing process is done by using
- A) zinc powder
  - B) bronze and steel
  - C) aluminium
  - D) nickel
69. Viscosity is the basic quality of friction
- A) water
  - B) flash
  - C) forced
  - D) oil
70. Repair complexity was well understood that the amount of work and the complexity of
- A) maintenance
  - B) involved in machine
  - C) requirement
  - D) repair

71. This is a box type jig having simplest form  
A) leaf jig  
B) angle plate jig  
C) plate jig  
D) channel jig
72. Vice-jaw fixture is generally used for machining  
A) small job  
B) large metal  
C) machining the job  
D) making the job
73. Melting point of tin  
A) 232°C  
B) 226°C  
C) 216°C  
D) 420°C
74. The weight of Indian standard aluminium sections are based on density of  
A) 2.8 gf/cm<sup>3</sup>  
B) 2.5 gf/cm<sup>2</sup>  
C) 2.6 gf/cm<sup>3</sup>  
D) 2.7 gf/cm<sup>3</sup>
75. The tester use a round ball that is forced into the work surface  
A) Brinell  
B) Rockwell  
C) Vickers  
D) Impression
76. The accuracy of the lathe depends on the accuracy of  
A) the carriage  
B) compound slide  
C) tail stock  
D) bed ways
77. Tongs are made of  
A) various metals  
B) mild steel  
C) carbon steel  
D) tool steel
78. The compound rest base graduated in  
A) cm  
B) mm  
C) meter  
D) degrees
79. The standard solid mandrel is ground taper of  
A) 4:200  
B) 3:200  
C) 1:2000  
D) 2:2000
80. Bar ending tool holder is used for finishing the end of  
A) bolt  
B) holder  
C) internal threads  
D) rollers



81. The book "Gandhi and Anarchi" was written by  
A) C. Sankaran  
B) Muhammad Ali Jinna  
C) Gopal Krishna Gokhale  
D) B.G. Thilak
82. Which of the National social organization published HITAVADA ?  
A) Theosophical society  
B) Servants of Indian society  
C) Abhinav Bharath  
D) I.N.A.
83. National Youth Day, January 12<sup>th</sup> is the birth day of  
A) Aurobinda Ghosh  
B) Vivekanandan  
C) Ramakrishna Paramahamsa  
D) Jyothiba Phule
84. Community development program launched in the year  
A) 1950  
B) 1951  
C) 1952  
D) 1953
85. First Indian State to initiate eco tourism project is  
A) Kerala  
B) Orissa  
C) U.P.  
D) Goa
86. The famous work of Fahien, which reflected the social life and Buddhism in India, was  
A) Siyuki  
B) Tao Chilio  
C) Fukoki  
D) Siohong
87. Sati was prohibited during the year  
A) 1826  
B) 1827  
C) 1828  
D) 1829





88. According to 2011 Census sex ratio in the country is  
A) 940:1000    B) 945:1000  
C) 950:1000    D) 930:1000
89. Who raised the slogan "No cast, no religion, no God for man" ?  
A) Vaikunta Swamikal                                  B) Sree Narayana Guru  
C) Sahodaran Ayyappan                                D) Vak Bhadanandh
90. First Communist Ministry in Kerala came to power on  
A) April 2, 1957    B) April 5, 1957  
C) April 10, 1957    D) April 7, 1957
91. The Prathyaksha Raksha Daivasabha was related with  
A) Sree Narayana Guru  
B) Ayyankali  
C) Chattambi Swamikal  
D) Kumara Guru Devan
92. The poem "Varika Varika Sahajare Sahana Samara Samayamayi" was related with which movement of freedom struggle ?  
A) Quit India movement  
B) Khilafath movement  
C) Guruvayoor sathyagraha  
D) Salt sathyagraha
93. The famous novel in Tamil "Madhoru Bhagan" which became controversial in recent days is written by  
A) Kanimozhi    B) Perumal Murugan  
C) Jayakanthan    D) Salma



94. India Gate in New Delhi was erected in memory of 90000 soldiers who lost their lives during
- |                              |                              |
|------------------------------|------------------------------|
| A) World War 1 <sup>st</sup> | B) World War 2 <sup>nd</sup> |
| C) Indo-Pak War              | D) Indo-Chinese War          |
95. Southern most tip of India is
- |                    |                        |
|--------------------|------------------------|
| A) Siachen glacier | B) Kanyakumari         |
| C) Ghaur matah     | D) Indira Gandhi point |
96. Who published the newspaper "National Herald" ?
- |                      |                     |
|----------------------|---------------------|
| A) Raja Gopal Achari | B) Abdul Kalam Azad |
| C) B.G. Thilak       | D) Jawaharlal Nehru |
97. Edakkal caves are situated in the district
- |             |             |
|-------------|-------------|
| A) Thrissur | B) Palakkad |
| C) Wayanad  | D) Idukki   |
98. Winner of Saraswathi Samman 2014 is
- |                         |
|-------------------------|
| A) Ravi Sankar Prasad   |
| B) U.R. Anantha Moorthy |
| C) Veerappa Moily       |
| D) Girish Karnad        |
99. Katherin Mary Heilemann is familiar to Indians with the name
- |                     |                |
|---------------------|----------------|
| A) Meera Bhen       | B) Sarala Bhen |
| C) Sister Niveditha | D) Madam Kama  |
100. Electricity struggle was the part of struggle for responsible government in
- |            |                    |
|------------|--------------------|
| A) Kochi   | B) Thiruvithamcore |
| C) Malabar | D) Madras          |