

# FINAL ANSWER KEY

Question Paper Code:	49/2019/OL
Category Code:	645/2017
Exam:	Tradesman (Fitting)NCA
Medium of Question:	English
Date of Test	03-10-2019
Department	Technical Education
Alphacode	A

Question1:-Two opposite sides are equal and parallel and four angles are right angles are called as .....?

- A:-Trapezium
- B:-Square
- C:-Parallelogram
- D:-Rectangle

Correct Answer:-**Question Cancelled**

Question2:-The main title of the drawing is written in ..... style?

- A:-Times new roman
- B:-Arial
- C:-Courier
- D:-Gothic

Correct Answer:- Option-D

Question3:-The system of writing dimensional value over the dimensional line is called as .....?

- A:-Parallel Dimensioning System
- B:-Aligned System
- C:-Chain Dimensioning System
- D:-Unidirectional System

Correct Answer:- Option-B

Question4:-If actual length of 5 mm is drawn in drawing to a length 50 mm. What is the type of scale used?

- A:-Reduced scale
- B:-Multiple scale
- C:-Enlarged scale
- D:-Plain scale

Correct Answer:- Option-C

Question5:-What is the interior angle of a regular pentagon?

- A:-120 degree
- B:-60 degree
- C:-72 degree
- D:-108 degree

Correct Answer:- Option-D

Question6:-True shape of an inclined plane is shown in .....?

- A:-Auxiliary view
- B:-Front view
- C:-Top view
- D:-Side view

Correct Answer:- Option-A

Question7:-Lower critical temperature of high carbon steel while hardening is .....?

- A:-960 degree
- B:-900 degree
- C:-723 degree
- D:-560 degree

Correct Answer:- Option-C

Question8:-Which reamer is used for reaming internal metric morse tapered holes?

- A:-Socket reamer with parallel shank
- B:-Hand reamer with pilot
- C:-Taper pin hand reamer
- D:-Helical fluted reamer

Correct Answer:- Option-A

Question9:-Face of the pulley is make slightly convex in width. It is called .....?

- A:-Flanck
- B:-Crowning
- C:-Effective diameter
- D:-Rim

Correct Answer:- Option-B

Question10:-Which parameter is specific to design hydromotor?

- A:-Maximum cylinder size
- B:-Maximum oil saving method
- C:-Maximum piston size
- D:-Maximum operating pressure

Correct Answer:- Option-D

Question11:-Which is the important factor to determine the construction of fixture?

- A:-Location and clamping
- B:-Machining method
- C:-Tool guiding and framing
- D:-Size of work piece and tool

Correct Answer:- Option-B

Question12:-The following extinguisher is suitable for cotton or other textile fire

- A:-Water
- B:-Foam
- C:-Soda Acid
- D:-Dry Chemical

Correct Answer:- Option-A

Question13:-The function of a washer is .....

- A:-To fill the axial gap
- B:-To provide cushioning effect
- C:-To absorb shock and vibrations
- D:-To provide bearing area

Correct Answer:-**Question Cancelled**

Question14:-Name the rivet head used for heavy fabrication work is .....

- A:-Flat head
- B:-Pan head
- C:-Snap head
- D:-Mushroom

Correct Answer:- Option-B

Question15:-Which is the least efficient but most common type of chain hoist available?

- A:-Screw geared hoist
- B:-Spur geared hoist
- C:-Differential hoist
- D:-Come along chain hoist

Correct Answer:- Option-C

Question16:-What is the cause of water dripping from the tap even after closed?

- A:-Defective washer
- B:-Spindle thread wornout
- C:-Bend spindle
- D:-Loose valve

Correct Answer:- Option-A

Question17:-Which metal alloys is used to make bearing?

- A:-Tin
- B:-Nickel
- C:-Chromium
- D:-Babbit Metal

Correct Answer:- Option-D

Question18:-Which metal used to make alligator type fastener?

- A:-G.I. sheet
- B:-Copper sheet
- C:-Steel sheet
- D:-Aluminium sheet

Correct Answer:- Option-C

Question19:-Why the small steel wedge is tapped under the machine in lifting operation?

- A:-To prevent vibration
  - B:-To reduce the weight
  - C:-To accept the crowbar
  - D:-To balance the machine
- Correct Answer:- Option-C

Question20:-Which type of coupling can bring the shaft ends into perfect alignment?

- A:-Plate coupling
  - B:-Clamp coupling
  - C:-Safety coupling
  - D:-Universal coupling
- Correct Answer:- Option-A

Question21:-Which among the following material can be cut with a RASP cut file?

- A:-Copper and Tin
  - B:-Brass and Bronze
  - C:-Leather and Wood
  - D:-Steel
- Correct Answer:- Option-C

Question22:-Which among the following types of chisel used to cutting curved grooves?

- A:-Flat Chisel
  - B:-Diamond Chisel
  - C:-Cross cut Chisel
  - D:-Half round nose Chisel
- Correct Answer:- Option-D

Question23:-An oily floor should be cleaned by .....?

- A:-Cotton waste
  - B:-Putting water
  - C:-putting saw dust or sand
  - D:-Spraying carbon dioxide
- Correct Answer:- Option-C

Question24:-Which one of the thread forms has an included angle of 29 Deg. between the sides of the thread?

- A:-British association thread
  - B:-Knuckle thread
  - C:-Buttress thread
  - D:-ACME thread
- Correct Answer:- Option-D

Question25:-As per Indian standard a special set of slip gauge is used consisting of .....?

- A:-81 pieces
  - B:-112 pieces
  - C:-120 pieces
  - D:-130 pieces
- Correct Answer:- Question Cancelled

Question26:-A hole, which is not made through full depth of the component is known as .....?

- A:-Core Hole
  - B:-Bore Hole
  - C:-Pin Hole
  - D:-Blind Hole
- Correct Answer:- Option-D

Question27:-Which among the following is an artificial abrasive?

- A:-Aluminium oxide
  - B:-Emery
  - C:-Diamond
  - D:-Corundum
- Correct Answer:- Option-A

Question28:-A grinding wheel is marked: 51 A 46 L 5 V-23. Here what does 5 denote?

- A:-Kind of bond
- B:-structure
- C:-Kind of abrasive
- D:-Grain size

Correct Answer:- Option-B

Question29:-Which type of key is used for coupling a pulley with a shaft?

- A:-Taper Key
- B:-Woodruff Key
- C:-GIB head Key
- D:-Flat Saddle Key

Correct Answer:- Option-C

Question30:-For riveting aluminium sheets, the material of rivet should be used .....

- A:-Aluminium
- B:-Copper
- C:-Brass
- D:-Wrought Iron

Correct Answer:- Option-A

Question31:-Which among the following nuts is used for hand vice?

- A:-Check Nut
- B:-Wing Nut
- C:-Thumb Nut
- D:-Hexagonal Nut

Correct Answer:- Option-B

Question32:-Which one of the following is a chemical property of metals?

- A:-Corrosion
- B:-Conductivity
- C:-Hardness
- D:-Elasticity

Correct Answer:- Option-A

Question33:-Liquid carburizing is done in a heated salt bath. Which one of the following is not a carburizing salt?

- A:-Sodium Carbonate
- B:-Barium Chloride
- C:-Sodium Cyanide
- D:-Sodium Sulphate

Correct Answer:- Option-D

Question34:-The belt movement upon the outer surface of the Pulleys within the area of contact is known as .....

- A:-Slipping
- B:-Creeping
- C:-Dressing
- D:-Crowning

Correct Answer:- Option-B

Question35:-Which one of the following is designed for taking an Axial Thrust Load as well as Radial Load?

- A:-Thrust Bearing
- B:-Needle Bearing
- C:-Angular contact Ball Bearing
- D:-Roller Bearing

Correct Answer:- Option-C

Question36:-..... are used for rotating shafts between centres?

- A:-Mandrel
- B:-Chuck
- C:-Face Plate
- D:-Driving Plate

Correct Answer:- Option-D

Question37:-A Collate Chuck is meant for the Gripping of?

- A:-Heavy job
- B:-Small jobs
- C:-Large dia jobs
- D:-Small dia jobs

Correct Answer:- Option-D

Question38:-The measured size of dimension of a component is called?

- A:-Basic size
- B:-Nominal size
- C:-Allowed size

D:-Actual size

Correct Answer:- Option-D

Question39:-Ratchet stop in the micrometer help to .....

A:-Lock the spindle

B:-Control the pressure

C:-adjust zero error

D:-Hold the jobs

Correct Answer:- Option-B

Question40:-A file used for filing narrow slots notches and grooves is a .....

A:-Knife edge file

B:-Half round file

C:-Flat file

D:-Mill file

Correct Answer:- Option-A

Question41:-Leveling bolts are used for .....

A:-Supporting the load for machine

B:-Rigidity of machine

C:-Adjusting the height of machine

D:-None of these

Correct Answer:- Option-C

Question42:-The sensitivity of precision spirit level is?

A:-0.02 to 0.05 / 100 mm

B:-0.02 to 0.05 / 1000 mm

C:-0.02 to 0.05 / 200 mm

D:-0.02 to 0.05 / 500 mm

Correct Answer:- Option-B

Question43:-For cutting hard material ..... pitch blade is recommended?

A:-10

B:-25

C:-18

D:-14

Correct Answer:-**Question Cancelled**

Question44:-Cast iron is used for manufacturing machine beds because?

A:-It can resist more compressive stress

B:-It is heavy in weight

C:-It is a cheaper metal

D:-It is a brittle metal

Correct Answer:- Option-A

Question45:-Desirable hardness in a file is generally?

A:-30 HRC

B:-45 HRC

C:-60 HRC

D:-80 HRC

Correct Answer:- Option-C

Question46:-Carbide tipped tool used for turning hard material is provided?

A:-Side rack angle

B:-Zero rack angle

C:-Positive rack angle

D:-Negative Rack angle

Correct Answer:- Option-D

Question47:-The plug gauge with go and nogo ends on the same side of the gauge is .....

A:-Double ended plug gauge

B:-Progressive plug gauge

C:-Adjustable plug gauge

D:-Fixed type plug gauge

Correct Answer:- Option-B

Question48:-Extension rods of inside micrometer are made of?

A:-Steel with 800 H.V

B:-In side micrometer

- C:-Depth Gauge
- D:-Tube Micrometer

Correct Answer:- Option-A

Question49:-Pig Iron is refined to produce Cast Iron in furnace called?

- A:-Pig Iron
- B:-Cast Iron
- C:-Wrought Iron
- D:-Steel

Correct Answer:- Question Cancelled

Question50:-Double helical gear are called?

- A:-Herring Bone Gear
- B:-Spur Gear
- C:-Bevel Gear
- D:-Worm Gear

Correct Answer:- Option-A

Question51:-Tap washers are used for?

- A:-Preventing vibration
- B:-Locking the Nuts
- C:-Self Locking
- D:-None of these

Correct Answer:- Option-B

Question52:-The best example for Gravity Feed Lubrication is?

- A:-Ring Lubricator
- B:-Wick Feed Lubricator
- C:-Grease Gun
- D:-Pump Lubricator

Correct Answer:- Option-B

Question53:-The machine element which control the sequence of operation in Auto Turret Lathe is?

- A:-Cam
- B:-Gears
- C:-Belt and Pulley
- D:-Screw Rod

Correct Answer:- Option-A

Question54:-Main alloying element in high speed steel is?

- A:-Chromium
- B:-Vanadium
- C:-Tungsten
- D:-Nickle

Correct Answer:- Option-C

Question55:-Lathe mandrels can be termed as a?

- A:-Jig
- B:-Fixture
- C:-Gauge
- D:-Template

Correct Answer:- Option-B

Question56:-Which one of the following bearing is used for talking Heavy Axial Load?

- A:-Trust Bearing
- B:-Solid Bearing
- C:-Journal Bearing
- D:-Tapered Roller Bearing

Correct Answer:- Option-D

Question57:-Which of the following Pulley is used for obtaining different speed ratio of?

- A:-Jockey Pulley
- B:-Solid Pulley
- C:-Split Pulley
- D:-Stepped Pulley

Correct Answer:- Option-D

Question58:-Hooks Law is associated with?

- A:-Pressure

B:-Thermal Expansion

C:-Stress

D:-Force

Correct Answer:- Option-C

Question59:-Which one of the following key may be screwed to the shaft?

A:-Saddle

B:-Woodruff

C:-Taper

D:-Feather

Correct Answer:- Option-D

Question60:-The shaft ends are entre drilled for?

A:-Supporting jobs between centres

B:-Lubricating the dead centre

C:-Reducing the weight

D:-Assisting counter boring

Correct Answer:- Option-A

Question61:-Tap washers are used for .....?

A:-Preventing vibration

B:-Locking the nuts

C:-Self locking

D:-Fastening structural fabrication work

Correct Answer:- Option-B

Question62:-The least count of a vernier metric micrometer is

A:-0.1 mm

B:-0.01 mm

C:-0.001 mm

D:-0.0001 mm

Correct Answer:- Option-C

Question63:-A chemical compound of carbon with iron is called?

A:-Ferrite

B:-Pearlite

C:-Cementite

D:-Austenite

Correct Answer:- Option-C

Question64:-Bell metal is an alloy of

A:-Lead and Tin

B:-Copper and Tin

C:-Copper and Aluminium

D:-Copper and Nickle

Correct Answer:- Option-B

Question65:-Which taper on diameter is always 1:20?

A:-Metric Taper

B:-Mirse Taper

C:-Brown and sharp Taper

D:-Pin Taper

Correct Answer:- Option-A

Question66:-As per Indian standard the radius of Fillet Gauge are available in size range of?

A:-0.6 to 25 mm

B:-1 mm to 8 mm

C:-5 mm to 20 mm

D:-10 mm to 25 mm

Correct Answer:- Option-A

Question67:-In which of the following punch is used for marking witness mark?

A:-Prick Punch 30 Deg.

B:-Dot Punch 60 Deg.

C:-Centre Punch

D:-Bell Punch

Correct Answer:- Option-B

Question68:-One yard is equal to .....?

A:-32 Inch

B:-35 Inch

C:-40 Inch

D:-36 Inch

Correct Answer:- Option-D

Question69:-The principle of the sine bar is based on the .....

A:-Algebraic function

B:-Cosine principle function

C:-Analytical geometric function

D:-Trigonometric function

Correct Answer:- Option-D

Question70:-The fly press, pen cap have .....

A:-Single start thread

B:-Multi start thread

C:-Double start thread

D:-Both A & C

Correct Answer:- Option-B

Question71:-The process of embedding the abrasive grains on lapping is called .....

A:-Rubbing

B:-Lapping

C:-Fixing

D:-Charging

Correct Answer:- Option-D

Question72:-At gas welding, the angle of the nozzle holding welding line is .....

A:-60 to 70 Degree

B:-80 to 90 Degree

C:-85 to 95 Degree

D:-40 to 60 Degree

Correct Answer:- Option-A

Question73:-The chief alloying elements of carbide tool is.....?

A:-Carbon and Iron

B:-Carbon and Molybdenum Iron

C:-Carbon and Vanadium

D:-Carbon and Tungsten

Correct Answer:- Option-D

Question74:-The type of Jig used for location from a bore is the .....

A:-Solid Jig

B:-Drill Jig

C:-Box Jig

D:-Post Jig

Correct Answer:- Option-D

Question75:-The percentage of carbon content in cast iron is .....

A:-4% to 6%

B:-3% to 5%

C:-2% to 4%

D:-1% to 3%

Correct Answer:- Option-C

Question76:-The melting point of cadmium is .....

A:-320 degree

B:-2620 Degree

C:-3380 Degree

D:-1495 degree

Correct Answer:- Option-A

Question77:-In which of the following friction is rather low?

A:-Solid Friction

B:-Rolling Friction

C:-Liquid Friction

D:-Gas Friction

Correct Answer:- Option-D



Question78:-The cutting angle of half round scraper is between .....

- A:-60 Degree to 80 Degree
  - B:-45 Degree to 65 Degree
  - C:-65 Degree to 75 Degree
  - D:-45 Degree to 68 Degree
- Correct Answer:- Option-B

Question79:-In which of the following metal has its most one important uses for Electro Plating Metallic?

- A:-Chromium
- B:-Nickel
- C:-Stainless Steel
- D:-Aluminium

Correct Answer:-**Question Cancelled**

Question80:-Which flame does not have bad effect on metals / weld?

- A:-Neutral flame
- B:-Oxidizing flame
- C:-Carburing flame
- D:-None

Correct Answer:- Option-A

Question81:-A depression formed at the end of the weld is called?

- A:-Pinhole
- B:-Blowhole
- C:-Crater
- D:-Crack

Correct Answer:- Option-C

Question82:-In which of the following Anode materials are insoluble?

- A:-Nickel
- B:-Chromium
- C:-Copper
- D:-Zinc

Correct Answer:- Option-B

Question83:-Percentage of carbon in mild steel?

- A:-0.1 to 0.3%
- B:-0.15 to 0.25%
- C:-0.1 to 0.5%
- D:-1 to 4 %

Correct Answer:-**Question Cancelled**

Question84:-The temperature at which the structure of steel completely changes to Austenite is called?

- A:-Lower critical temperature
- B:-Upper critical temperature
- C:-Preheat
- D:-Soaking time

Correct Answer:- Option-B

Question85:-Which one of the following is used for gas carburizing?

- A:-Acetylene
- B:-Hydrogen
- C:-Methane
- D:-Oxygen

Correct Answer:- Option-C

Question86:-Ball bearing are most widely used to all the bearings the width of the ball bearing is

- A:-Equal to bore diameter
- B:-Greater than bore diameter
- C:-Smaller than bore diameter
- D:-Equal or greater than bore diameter

Correct Answer:- Option-C

Question87:-The swage block is made of?

- A:-Malleable castiron
- B:-Aluminium
- C:-Cast Steel
- D:-Steel

Correct Answer:- Option-A

Question88:-In the pipe assembly the hemp packing is used?

- A:-For easy engagement
- B:-To fill the gap between threads
- C:-To avoid leakage
- D:-To get tight fitting

Correct Answer:- Option-C

Question89:-The circlip is the example for in which following type spring?

- A:-Helical spring
- B:-Wire spring
- C:-Leaf spring
- D:-Coil spring

Correct Answer:- Option-C

Question90:-Approximate hardness of HSS Milling?

- A:-45 HRC
- B:-52 HRC
- C:-62 HRC
- D:-75 HRC

Correct Answer:- Option-C

Question91:-An irregularity shaped work piece is turned on a lathe. Which one of the work holding accessories is used?

- A:-3 Jaw Chuck
- B:-4 Jaw Chuck
- C:-Face Plate
- D:-Driving Plate

Correct Answer:-**Question Cancelled**

Question92:-When the threading tool reaches the end of the thread the tool should be?

- A:-Left in groove and reverse the workpiece.
- B:-Withdrawn after stopping the machine
- C:-Withdrawn while the tool is taking cut
- D:-Withdrawn after removing the workpiece

Correct Answer:- Option-C

Question93:-Which taper is used on spindle nose of the lathe head stock?

- A:-Jarno taper
- B:-Brown share taper
- C:-Pin Taper
- D:-Morse Taper

Correct Answer:- Option-D

Question94:-If the bearing is fitted too tight the internal radial clearance will be .....

- A:-Increased
- B:-Reduced
- C:-Same
- D:-None of the above

Correct Answer:- Option-B

Question95:-Wrought Iron is made from

- A:-Blast Furnace
- B:-Crucible Furnace
- C:-Puddling Furnace
- D:-Open Hearth Furnace

Correct Answer:- Option-C

Question96:-Bending of a rope is known as?

- A:-Round Turn
- B:-Bight
- C:-Loop
- D:-Knot

Correct Answer:- Option-B

Question97:-Which of the following is not a part of a taper turning attachment?

- A:-Guide Block
- B:-Sliding Block
- C:-Guide Bar

D:-Carrier

Correct Answer:- Option-D

Question98:-Special purpose material handling equipment are used in?

A:-Purpose Layout

B:-Line Layout

C:-Both A and B

D:-None of the above

Correct Answer:- Option-B

Question99:-Which one of the following is a type of actuator in a Hydraulic system?

A:-Pump

B:-Valve

C:-Strainer

D:-Cylinder

Correct Answer:- Option-D

Question100:-Which one of the following tests is carried out after overhauling and reconditioning of Machines?

A:-Periodic acceptance test

B:-Geometrical test only

C:-Performance test one

D:-None of the above

Correct Answer:- Option-A