	Railway Recru	itment Cell
Post Name : 03	3A-Fitter	Exam Code : MASSXAIT
Exam Date : 21	1-06-2024	Exam Time : 11:15AM
	Question	<u>No. 1</u>
Which of the fo	ollowing is/are NOT part of a combination set?	
A) French curv	ves B) Protractor head
C) Square hea	nd D) Centre head
Answer Key:	A	
	Question	<u>No. 2</u>
Calculate the ta	ap-drill size for an M6 x 1.0 thread.	
A) 7 mm	В) 6 mm
C) 5 mm	С) 1 mm
Answer Key: (С	
	Question	<u>No. 3</u>
To measure wh	nich of the following is feeler gauge used?	
A) Gap width	В) Thickness of workpiece
C) Surface har	rdness E) Surface roughness
Answer Key: /	A	
	Question	<u>No. 4</u>
Malleability is the property of metals, because of which they can be made into-		
A) Wires	Е) Sheets
C) Hollow pipe:	es D) Solid bars
Answer Key:	В	
	Question	No. <u>5</u>

A _____ is an example of a permanent fastener.

A) Key

B) Rivet

C) Cotter

D) Screw

Answer Key: B

Question No. 6

The centre drill represents a combination of the-

A) Drill and countersink

B) Drill and counter bore

C) Drill and mill

D) Drill and ream

Answer Key: A

Questi	on No. 1	
The abrasive generally used for honing of non-ferrous met	als is-	
A) Boron carbide	B) Diamond	
C) Silicon carbide	D) Aluminium oxide	
Answer Key: C		
<u>Question</u>	on No. 8	
The portion of the shaft carried in the bearing is referred to	as-	
A) Cage	B) Thrust	
C) Journal	D) Race	
Answer Key: C		
<u>Questi</u>	on No. 9	
The advancement of the nut on a bolt in one revolution is	called-	
A) Lead	B) Pitch	
C) Module	D) Core distance	
Answer Key: A		
Questio	on No. 10	
Taps are re-sharpened by grinding-		
A) Flutes	B) Threads	
C) Diameter	D) Relief	
Answer Key: A		
Questio	on No. 11	
The pitch of a 3-start thread is the lead divided by-		
A) 1	B) 2	
C) 3	D) 4	
Answer Key: C		
Question No. 12		
The tool post of a shaper is mounted on a-		
A) Base	B) Cross-rail	
C) Clapper box	D) Saddle	
Answer Key: C		
Question	n No. 13	
The surface gauge is used for-		
A) Checking parallelism	B) Checking acute angles	
C) Measuring the thickness	D) Marking the diameter	

Answer Key: A		
Questio	n No. 14	
Tempering is the process of removing the property of-		
A) Brittleness	B) Malleability	
C) Toughness	D) Ductility	
Answer Key: A		
Questio	n No. 15	
The point angle of a prick punch is-		
A) 30°	B) 70°	
C) 90°	D) 100°	
Answer Key: A		
Questio	n No. 16	
In grinding wheel classification, the letter code 'E' means t	hat the bond material used is-	
A) Vitrified	B) Shellac	
C) Magnesia	D) Silicate	
Answer Key: B		
Questio	n No. 17	
Which of the following tools is used for closing down the metal joint?	edges of plates and the heads of rivets to form a metal-to-	
A) Drift	B) Caulking tool	
C) Dolly	D) Rivet snap	
Answer Key: B		
Questio	n No. 18	
Which of the following files is used for filing internal curved	I surfaces?	
A) Half-round file	B) Knife-edge file	
C) Triangular file	D) Square file	
Answer Key: A		
Question No. 19		
What is the full form of BSF in the context of threads?		
A) Bureau of Standard Fine	B) British Standard Fine	
C) British Screw Fine	D) Bureau of Screw Fine	
Answer Key: B		
Questio	n No. 20	
Which of the following tools is used for scribing circles and	arcs and for transferring and stepping off distances?	

A) Divider	B) Steel rule	
C) Try square	D) None of the options	
Answer Key: A		
Question	n No. 21	
Parallel blocks are made in grades of-		
A) A and B	B) 1 and 2	
C) X and Y	D) I and II	
Answer Key: A		
Question	n No. 22	
The least count of Vernier bevel protractor is-		
A) 1'	B) 5'	
C) 10'	D) 25'	
Answer Key: B		
Question	n No. 23	
The least count of the Vernier caliper is equal to-		
A) Value of 1 M.S.D Value of 1 V.S.D.	B) Value of 1 V.S.D Value of 1 M.S.D.	
C) Value of 2 M.S.D Value of 1 V.S.D.	D) Value of 1 M.S.D. + Value of 1 V.S.D.	
Answer Key: A		
Question	n No. 24	
Which of the following grades of slip gauges set is meant for	or reference purpose?	
A) Grade 2	B) Grade 1	
C) Grade 0	D) Grade 00	
Answer Key: D		
Question	n No. 25	
As per Indian Standards, the grain size '46' comes under the	ne group-	
A) Coarse	B) Medium	
C) Fine	D) Very fine	
Answer Key: B		
Question	n No. 26	
Which of the following machine reamers is used to correct the misalignment between the reamer axis and the work axis?		
axis?	it the modification between the realities axis and the work	
A) Floating blade reamer	B) Shell reamer	

Question No. 27		
The shape of the frame of a thread-snap gauge is-		
A) Round	B) Square	
C) 'Y' type	D) 'C' type	
Answer Key: D		
Question	n No. 28	
The front view, top view and side view of a 3D object in two	dimensions can be seen in-	
A) Perspective projection	B) Trigonometric projection	
C) Orthographic projection	D) Both perspective and trigonometric projections	
Answer Key: C		
Question	n No. 29	
Discontinuous chips are formed during the machining of-		
A) Brittle metals	B) Ductile metals	
C) Malleable metals	D) Soft metals	
Answer Key: A		
Question	n No. 30	
The objective of caulking in a riveted joint is to make the jo	int-	
A) Leak proof	B) Stronger in tension	
C) Free from stress concentration	D) Free from corrosion	
Answer Key: A		
Question	n No. 31	
The feed for the tool in a lathe is expressed in-		
A) m/min	B) mm/min	
C) mm/rev	D) cm/rev	
Answer Key: C		
Question No. 32		
The size of a gear is usually specified by the-		
A) Pressure angle	B) Circular pitch	
C) Pitch circle diameter	D) Both pressure angle and circular pitch	
Answer Key: C		
Question No. 33		
Screw pitch gauge blades are made from-		
A) Cast iron	B) Aluminium	
C) Brass	D) High-carbon steel	

Answer Key: D	
Question	n No. 34
While drilling in the lathe, the drill is held in the-	
A) Headstock	B) Tailstock
C) Compound rest	D) Bed
Answer Key: B	
Question	n No. 35
The composition of soft solder is lead and	
A) Tin	B) Silver
C) Copper	D) Aluminium
Answer Key: A	
Question	n No. 36
A thread M12 X 1.25 to be cut on a mild steel rod has a pito	ch of-
A) 1.25 cm	B) 1.25 mm
C) 12 mm	D) 12 cm
Answer Key: B	
Question	n No. 37
The cutting angle of a flat chisel for chipping brass is-	
A) 30°	B) 50°
C) 75°	D) 90°
Answer Key: B	
Question	n No. 38
Which of the following is used for making internal threads?	
A) Drill	B) Reamer
C) Taps	D) Chisel
Answer Key: C	
Question	n No. 39
In a hermaphrodite caliper-	
A) One leg is bent inward and another straight leg ends in a sharp point	B) Both legs are bent inward
C) Both legs end in a sharp point	D) One leg is bent inward and the other leg is bent outward
Answer Key: A	
Question No. 40	
A swage block is a-	

C) Heavy block of plastic	D) Light block of zinc	
Answer Key: A		
Question	n No. 41	
A is a semi-circular disc that fits into a circular red	cess in the shaft.	
A) Parallel key	B) Gib-head key	
C) Feather key	D) Woodruff key	
Answer Key: D		
Question	n No. 42	
A hammer that has two heads one being round and the oth	er being flat is known as a-	
A) Claw hammer	B) Ball-peen hammer	
C) Club hammer	D) Mallet	
Answer Key: B		
Question	n No. 43	
An anvil beak is used for-		
A) Drawing down and cutting off metals	B) Bending and rounding operations	
C) Punching holes in the workpiece	D) Inserting hardie holes and stakes	
Answer Key: B		
Question	n No. 44	
Bent snips are used for		
A) Making holes on a sheet	B) Bending a sheet	
C) Removing burrs from the corner	D) Cutting a sheet along curved lines	
Answer Key: D		
Question	n No. 45	
Which of the following files has 8 teeth per centimeter?		
A) Rough file	B) Bastard file	
C) Second-cut file	D) Dead-smooth file	
Answer Key: A		
Question	n No. 46	
Which of the following stakes has two horns, one of which is tapered and the other being a rectangular shaped anvil?		
A) Half-moon stake	B) Bick-iron stake	
C) Pipe stake	D) Hatchet stake	
Answer Key: B		
Question	n No. 47	

B) Light block of aluminium

A) Heavy block of cast iron

What is the full form of BSW with respect to the thread standard?		
A) British Standard Whitworth	B) Bureau of Standard Wide	
C) British Standard Wire	D) British Standard Wide	
Answer Key: A		
Questic	on No. 48	
British Association (BA) thread has an included angle of-		
A) 55°	B) 47.5°	
C) 60°	D) 85°	
Answer Key: B		
Questio	on No. 49	
One decameter is equivalent to-		
A) 10 decimetre	B) 10 centimetre	
C) 10 metre	D) 10 millimetre	
Answer Key: C		
Questio	on No. 50	
The ACME thread has an included angle of-		
A) 29°	B) 35°	
C) 50°	D) 79°	
Answer Key: A		
Questio	on No. 51	
is the depth of the tooth below the pitch circle.		
A) Addendum	B) Backlash	
C) Dedendum	D) Clearance	
Answer Key: C		
Questio	on No. 52	
Which of the following parts of carriage assembly in a latt	he is a flat H-shaped casting that fits on the outer ways on	
A) Saddle	B) Cross-slide	
C) Tool post	D) Apron	
Answer Key: A		
Questio	on No. 53	
The process of reducing the diameter of workpiece over a	very narrow surface is-	
A) Grooving	B) Tapping	
C) Facing	D) Spinning	

Answer Key: A		
Question	n No. 54	
A fly cutter, which is a single-point cutting tool, is used in-		
A) Drilling machines	B) Metal spinning lathes	
C) Milling machines	D) Boring machines	
Answer Key: C		
Question	n No. 55	
The main function of the clapper box in a shaper is to-		
A) Provide clearance for the tool in the return stroke	B) Ensure cutting action	
C) Provide lubrication	D) All of the options	
Answer Key: A		
Question	n No. 56	
The letter 'P' in the acronym PASS related to the operation	of a fire extinguisher is-	
A) Pull	B) Push	
C) Power	D) Put	
Answer Key: A		
Question	n No. 57	
In metric micrometers, the pitch of the spindle thread is-		
A) 0.5 mm	B) 0.05 mm	
C) 1 mm	D) 2 mm	
Answer Key: A		
Question	n No. 58	
What is the full form of SWG with respect to wire measuren	ment?	
A) Supportive Wire Gauge	B) Standard Wire Gauge	
C) Standard Wide Gauge	D) Steel Wire Gauge	
Answer Key: B		
Question	n No. 59	
What is the class of fire caused by fire wood, paper, cloth?		
A) Class 'A' fire	B) Class 'B' fire	
C) Class 'C' fire	D) Class 'D' fire	
Answer Key: A		
Question No. 60		
The drill specified by letter Z has the diameter of-		
A) 10.490 mm	B) 9.804 mm	

C) 7.671 mm	D) 5.944 mm
Answer Key: A	
Question	n No. 61
Which of the following files is also known as a fish-back file	9?
A) Crossing file	B) Rotary file
C) Barrette file	D) Mill-saw file
Answer Key: A	
Question	n No. 62
Slight convexity is provided to the face of a hammer to-	
A) Avoid digging of the edge	B) Provide grip to the hand
C) Provide mechanical balance	D) Absorb shock
Answer Key: A	
Question	n No. 63
A rivet is specified by the of the rivet.	
A) Shank diameter	B) Head diameter
C) Shank length	D) Head length
Answer Key: A	
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Question	n No. 64
Question When soft materials such as aluminium, copper, and lead	
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Question When soft materials such as aluminium, copper, and lead the wheel. This condition is called- A) Loading C) Dressing Answer Key: A Question Fire is a combination of- A) Fuel, light and oxygen	are ground, the metal particles get clogged in the pores of B) Glazing D) Truing No. 65 B) Fuel, heat and oxygen
Question When soft materials such as aluminium, copper, and lead the wheel. This condition is called- A) Loading C) Dressing Answer Key: A Question Fire is a combination of- A) Fuel, light and oxygen C) Fuel, heat and carbon dioxide	are ground, the metal particles get clogged in the pores of B) Glazing D) Truing No. 65 B) Fuel, heat and oxygen D) Fuel, light and nitrogen
Question When soft materials such as aluminium, copper, and lead the wheel. This condition is called- A) Loading C) Dressing Answer Key: A Question Fire is a combination of- A) Fuel, light and oxygen C) Fuel, heat and carbon dioxide Answer Key: B	are ground, the metal particles get clogged in the pores of B) Glazing D) Truing No. 65 B) Fuel, heat and oxygen D) Fuel, light and nitrogen
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A cutting tool used to cut outside threads is called the-	
A) Drill	B) Reamer
C) Die	D) Tap
Answer Key: C	
Questio	on No. 68
The point angle of a twist drill for general purposes is-	
A) 135°	B) 118°
C) 90°	D) 60°
Answer Key: B	
Questio	on No. 69
The pitch diameter of a screw thread is the-	
A) Nominal diameter of the rod	B) Imaginary diameter in between the major and minor diameters of the thread
C) Minimum diameter of the thread	D) Maximum diameter of the thread
Answer Key: B	
Questio	on No. 70
A nut having a raised height and slots on the raised portio	n is called a-
A) Sawn nut	B) Slotted nut
C) Castle nut	D) Pin-hole nut
Answer Key: C	
Questic	on No. 71
Calculate the height of the slip-gauge pack required to rate = 0.0624)	ise a 100 mm sine bar to an angle of 3°35'. (Take sin 3°35'
A) 2.34 mm	B) 4.73 mm
C) 6.24 mm	D) 8.47 mm
Answer Key: C	
Questio	on No. 72
Cold chisels are made of-	
A) Aluminium	B) High-carbon steel
C) Cast iron	D) Mild steel
Answer Key: B	
Questio	on No. 73
A is part of a file and fits inside a handle.	
A) Tang	B) Heel
C) Point	D) Belly

Answer Key: A		
Questi	on No. 74	
Which of the following is an alloy?		
A) Steel	B) Brass	
C) Bronze	D) All of the options	
Answer Key: D		
Question No. 75		
is a forging process that increases the diameter of the metal by compressing its length.		
A) Upset forging	B) Roll forging	
C) Isothermal forging	D) Drop forging	
Answer Key: A		