	Railway Recruitment Cell
Post Name : 03I-Millwright Maintenance Mechanic	c Exam Code : MASSXAIL
Exam Date : 21-06-2024	Exam Time : 11:15AM
	Question No. 1
The included angle for buttress threads is-	
A) 60°	B) 55°
C) 45°	D) 29°
Answer Key: C	
	Question No. 2
When screw threads are to be used in a si screw threads suitable for this will be-	ituation where power is being transmitted in one direction only, then
A) Square threads	B) ACME threads
C) Knuckle threads	D) Buttress threads
Answer Kev: D	

the

Question No. 3

When carbon in the cast iron is principally in the form of graphite, the cast iron will be of-

A) Grey colour B) White colour

C) Yellow colour D) Brown colour

Answer Key: A

Question No. 4

Which of the following is also known as muff coupling?

A) Sleeve coupling B) Compression coupling

C) Clamp coupling D) Flange coupling

Answer Key: A

Question No. 5

B) Sheets

Ductility is the property of a material due to which it can be drawn into-

D) Plates C) Hollow pipes

Answer Key: A

A) Wires

Question No. 6

Which of the following is an example of permanent fasteners?

A) Bolts B) Keys

C) Rivets D) Cotters

Answer Key: C		
Question	n No. 7	
The included angle for the British Standard Whitworth (BSV	V) thread is-	
A) 29°	B) 47.5°	
C) 55°	D) 60°	
Answer Key: C		
Question	n No. 8	
The property which enables a metal to be drawn out into wi	res without rupture is known as-	
A) Malleability	B) Creep	
C) Ductility	D) Hardness	
Answer Key: C		
Question	n No. 9	
In which of the following are consumable electrodes used?		
A) Plasma arc welding	B) Carbon arc welding	
C) TIG welding	D) MIG welding	
Answer Key: D		
Question	ı <u>No. 10</u>	
Which of the following defects is classified under the categor	ory of internal welding defects?	
A) Spatter	B) Slag inclusion	
C) Undercut	D) Overlap	
Answer Key: B		
Question No. 11		
can be defined as the resistance to indentation or scratch.		
A) Malleability	B) Ductility	
C) Elasticity	D) Hardness	
Answer Key: D		
Question	ı No. 12	
is a cylindrical rod having a head at one end and a	a nut fitted to other end.	
A) Bolt	B) Nail	
C) Stud	D) Set screw	
Answer Key: A		
Question	ı No. 13	
Terneplate is an alloy of-		
A) Nickel and chromium	B) Copper and zinc	

C) Lead and tin	D) Iron and manganese	
Answer Key: C		
Question	n No. 14	
Find the mechanical advantage of a pulley system if it has is pulled by 12 m.	an efficiency of 60%. The load lifts by 3 m when the rope	
A) 3.6	B) 1.2	
C) 4.8	D) 2.4	
Answer Key: D		
Question	n No. 15	
The type of power transmission drive used when the power required to be transmitted between the two shafts which are placed at a large distance is-		
A) Belt drive	B) Chain drive	
C) Gear drive	D) None of the options	
Answer Key: A		
Question	n No. 16	
Common solder is composed of-		
A) Tin and Lead	B) Zinc and tin	
C) Silicon and Brass	D) Lead and zinc	
Answer Key: A		
Question	n No. 17	
is the radial distance of a gear tooth from the pitc	h circle to the bottom of the gear tooth.	
A) Bore	B) Dedendum	
C) Hub	D) Addendum	
Answer Key: B		
Question	n No. 18	
A/an is used to measure the specific gravity of a I	ubricant.	
A) Hydrometer	B) Viscometer	
C) Anemometer	D) Pyrometer	
Answer Key: A		
Question No. 19		
If material recovers its original dimensions, when the load i	is removed, it is known as-	
A) Brittle	B) Elastic	
C) Plastic	D) Annealed	
Answer Key: B		
Question	n No. 20	

The graduations of a bevel protractor are marked from-		
A) 0 to 90 degrees	0 to 45 degrees	
C) 0 to 180 degrees	0 to 360 degrees	
Answer Key: C		
Questio	<u>. 21</u>	
Which of the following is an example of detachable fastening		
A) Rivet	Soldering joint	
C) Welding joint	Cotter joint	
Answer Key: D		
Questio	<u>. 22</u>	
A screw thread specified by M 20 X 2.5 as per BIS thread s	em means-	
A) Metric thread of 20 mm nominal diameter and 2.5 mm pitch	Metric thread of 20 mm in the having coarse tolerance	root diameter and 2.5 mm pitch
C) Metric thread of fine class having 17.5 mm root diameter and 2.5 mm pitch	Metric thread of 17 mm thread depth	n shank diameter and 2.5 mm
Answer Key: A		
Questio	<u>. 23</u>	
Which of the following keys is/are used to transmit power to	gh frictional resistance?	
A) Sunk key	Saddle key	
C) Both saddle and sunk key	Woodruff key	
Answer Key: B		
Question No. 24		
The jaw plates of a bench vice are made of-		
A) High carbon steel	Copper	
C) Aluminium	Bronze	
Answer Key: A		
Questio	<u>. 25</u>	
Zero error in micrometer means-		
A) There is negligible gap between the spindle and the anvil	Micrometer is true	
C) Zero mark on the thimble is not visible	Zero on thimble and c coincide when measuring	datum line on sleeve do not g faces are in contact
Answer Key: D		
Questio	. 26	
The purpose of tempering a hardened steel component is t		
A) Reduce its brittleness	Reduce its hardness	

C) Increase its toughness	D) All of the options
Answer Key: D	
Question	1 No. 27
During turning operation, the job is measured when it is-	
A) In fast motion	B) Stopped
C) About to stop	D) In slow motion
Answer Key: B	
Question	n No. 28
Chamfering is NOT meant to-	
A) Remove sharp edges	B) Permit for easy assembly of mating components
C) Reduce the weight of the component	D) Provide better appearance
Answer Key: C	
Question	n No. 29
Which of the following types of lathes is also known as the	engine lathe?
A) Tool room lathe	B) Centre lathe
C) Turret lathe	D) Capstan lathe
Answer Key: B	
Question	n No. 30
The included angle in ACME threads is-	
A) 29°	B) 47.5°
C) 55°	D) 50°
Answer Key: A	
Question	n No. 31
What defect is caused by gas entrapment in arc welding pr	ocess?
A) Crack	B) Porosity
C) Lack of fusion	D) Slag inclusion
Answer Key: B	
Question	n No. 32
The measured size of the dimension of a finished part is ca	illed the-
A) Actual size	B) Deviation
C) Allowed size	D) None of the options
Answer Key: A	
Question No. 33	
Which of the following processes is used for hardening the	surface of tool steel?

C) Induction hardening	D) Hardening	
Answer Key: C		
Question	n No. 34	
The property of a material which enables it to retain the de	formation permanently, is called-	
A) Brittleness	B) Ductility	
C) Malleability	D) Plasticity	
Answer Key: D		
Question	n No. 35	
Which of the following is the case-hardening process?		
A) Flame hardening	B) Induction hardening	
C) Liquid carburizing	D) All of the options	
Answer Key: D		
Question No. 36		
	etal to adjust the mechanical properties of its original state	
from an elevated temperature by contact with liquids, gase		
A) Tempering	B) Hardening	
C) Quenching	D) Normalizing	
Answer Key: A		
Question	n No. 37	
Which of the following is a copper-free alloy?		
A) Brass	B) Phosphor bronze	
C) Invar	D) Muntz metal	
Answer Key: C		
Question No. 38		
A screw is said to be an overhauling screw, if its efficiency	is-	
A) Less than 50%	B) More than 50%	
C) Equal to 50%	D) None of the options	
Answer Key: B		
Question	n No. 39	
The included angle for the V-belt is usually-		
A) 20°–25°	B) 30°-40°	
C) 41°-60°	D) 65°-80°	
Answer Key: B		

B) Quenching

A) Tempering

Questi	<u>1011 NO. 40</u>	
Which of the following is an anti-friction bearing?		
A) Sleeve bearing	B) Ball and roller bearing	
C) Bushing bearing	D) None of the options	
Answer Key: B		
Questi	ion No. 41	
Which of the following threads has the smallest included	angle?	
A) Acme thread	B) B.S.W thread	
C) Buttress thread	D) Unified thread	
Answer Key: A		
Questi	ion No. 42	
A is the vertical part of a slotter machine that cor	tains all the drive mechanisms for the ram and feed.	
A) Base	B) Saddle	
C) Column	D) Cross-slide	
Answer Key: C		
Questi	ion No. 43	
The main alloying elements of high speed steel in order of	of increasing proportion are-	
A) Vanadium, chromium, tungsten	B) Tungsten, titanium, vanadium	
C) Chromium, titanium, vanadium	D) Tungsten, chromium, titanium	
Answer Key: A		
Question No. 44		
Brass contains-		
A) 70% copper and 30% zinc	B) 90% copper and 10% tin	
C) 85 - 92% copper and rest tin with little lead and nickel	D) 70 - 75% copper and rest tin	
Answer Key: A		
Questi	ion No. 45	
A cold chisel is made of-		
A) Mild steel	B) Cast iron	
C) Aluminium	D) High carbon steel	
Answer Key: D		
Questi	ion No. 46	
White metal may contain-		
A) Manganese and copper	B) Copper, tin and rest zinc	
C) Tin or lead	D) Silver or chromium	

Answer Key: C		
Question	n No. 47	
Bronze is an alloy of-		
A) Copper and zinc	B) Copper and tin	
C) Copper, tin and zinc	D) None of the options	
Answer Key: B		
Question	n No. 48	
A flange coupling is used to connect two shafts-		
A) Which are perfectly aligned	B) Which are not in exact alignment	
C) Have lateral misalignment	D) Whose axes intersect at a small angle	
Answer Key: A		
Question	n No. 49	
Steel containing up to 0.8 to 1.5% carbon is known as-		
A) Mild steel	B) Dead mild steel	
C) Medium carbon steel	D) High carbon steel	
Answer Key: D		
Question	n No. 50	
The difference between the maximum and minimum limits of	of size is called-	
A) Upper deviation	B) Lower deviation	
C) Tolerance	D) Actual size	
Answer Key: C		
Question No. 51		
Which of the following gas mixtures is used generally for cu	utting?	
A) Oxygen – hydrogen	B) Hydrogen – acetylene	
C) Oxygen – acetylene	D) Acetylene – argon	
Answer Key: C		
Question	n No. 52	
Which of the following is a safety device in welding?		
A) Apron	B) Welding torch	
C) Electrode	D) Cylinder	
Answer Key: A		
Question No. 53		
In a riveted joint, the distance between the centres of adjac	ent rivets in the same row is called-	
A) Gauge distance	B) Lap distance	

C) Pitch	D) Edge distance	
Answer Key: C		
Question	า No. 54	
Which of the following is an artificial abrasive?		
A) Emery	B) Solid quartz	
C) Corundum	D) Silicon carbide	
Answer Key: D		
Question	n No. 55	
Vulcanization is the process of heating-		
A) Sulphur with rubber	B) Acetic acid with rubber	
C) Plasticizers with rubber	D) Zinc phosphate with steel	
Answer Key: A		
Question	n No. 56	
The clapper box of a shaper is used to-		
A) Lift the tool during the cutting stroke	B) Lift the tool during the return stroke	
C) Lift the tool in the middle of the stroke	D) Prevent overhanging of the tool	
Answer Key: B		
Question	n No. 57	
Non ferrous metal does NOT contain as base.		
A) Iron	B) Aluminium	
C) Zinc	D) Copper	
Answer Key: A		
Question	n No. 58	
A 2X flame is a flame in which the-		
A) Acetylene feather is twice as long as the inner cone	B) Inner cone is twice as long as the acetylene feather	
C) Inner cone is twice as long as the blue envelope	D) Blue envelope is twice as long as the inner cone	
Answer Key: A		
Question No. 59		
Which of the following materials has the highest melting po	int?	
A) Iron	B) Silver	
C) Copper	D) Tungsten	
Answer Key: D		
Question No. 60		
The amount of heat generated in registance wolding is more	ocured in	

C) Watt	D) Pascal	
Answer Key: A		
Question	n No. 61	
The malleability is the property of a material by virtue of wh	nich a material-	
A) Can be drawn into wires with the application of a tensile force	B) Retains the deformation produced under load permanently	
C) Regains its shape and size after the removal of external forces	D) Can be rolled or hammered into thin sheets	
Answer Key: D		
Question	n No. 62	
Which property of material is the main reason that chips br	eak during machining?	
A) Brittleness	B) Ductility	
C) Malleability	D) Plasticity	
Answer Key: A		
Question	n No. 63	
is the quantity that describes a fluid's resistance	to flow.	
A) Viscosity	B) Flash point	
C) Fire point	D) Pour point	
Answer Key: A		
Question	n No. 64	
Which of the following is the operation of producing a tapered enlargement at the opening of a hole so as to provide a seat for a flat head screw?		
A) Boring	B) Reaming	
C) Counterboring	D) Countersinking	
Answer Key: D		
Question No. 65		
Which of the following is a major constituent of corundum?		
A) Carbon	B) Diamond	
C) SiO ₂	D) Al ₂ O ₃	
Answer Key: D		
Question No. 66		
Ball bearings are generally made of-		
A) Cast iron	B) Malleable cast iron	
C) Copper	D) Chrome steel	

B) Calories

A) Joules

Answer Key: D		
Question	n No. 67	
The operation of closing down the edges of the plates and	heads of the rivets to form a metal-to-metal joint is-	
A) Caulking	B) Beading	
C) Braising	D) Burring	
Answer Key: A		
Question	n No. 68	
A sunk key requires a keyway in the-		
A) Hub only	B) Shaft only	
C) Both the hub and shaft	D) Neither the hub nor shaft	
Answer Key: C		
Question	n No. 69	
A nut is to be made for a screw of M10 \times 1.5. What should	be the size of the drilled hole?	
A) 8.5 mm	B) 9.0 mm	
C) 9.5 mm	D) 10.0 mm	
Answer Key: A		
Question	n No. 70	
An open side or one side housing planing machine is used	for-	
A) Spherical jobs	B) Wider jobs	
C) Small and many jobs at a time	D) Small jobs only	
Answer Key: B		
Question	n No. 71	
Which of the following is characterized as a heavy metal?		
A) Lead	B) Aluminium	
C) Magnesium	D) Titanium	
Answer Key: A		
Question No. 72		
Grease can be used to-		
A) Prevent corrosion	B) Reduce friction and wear	
C) Repel moisture	D) All of the options	
Answer Key: D		
Question No. 73		
The external surface of the part made of mild steel can be hardened by-		
A) Tempering	B) Normalizing	

C) Case hardening	D) Hardening
Answer Key: C	
Qı	uestion No. 74
Which of the following is NOT an alloy?	
A) Steel	B) Brass
C) Bronze	D) Titanium
Answer Key: D	
Qı	uestion No. 75
Which of the following tools is used in milling?	
A) Single-point cutting tool	B) Multi-point rotary cutters
C) Abrasive wheel	D) Polishing sand
Answer Key: B	