PSC Tradesman - Machinist -Technical Education Examination Previous Year Question Paper

Exam Name: Tradesman - Machinist - Technical Education

Date of Test: 15.01.2016

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Medium of Questions: English



009/2016 Case hardening is done on A) Cast Iron B) High Carbon Steel C) High Speed Steel D) Mild Steel 17. Which gear is used for power transmission in parallel shafts? A) Worm gear B) Rack and pinion D) Bevel gear C) Helical gear 18. Main property of cutting fluid A) Specific gravity B) Specific heat C) Ductility D) Viscosity 19. What SAE 30 number indicate? A) Flash point B) Viscosity C) Pour point D) Fire point 20. A tool which is used to enlarge a previously drilled hole is known as A) Boring tool B) Turning tool D) Facing tool C) Form tool 21. Which one of the following tapers is used for making shank of lathe centres? A) Jerno taper B) Non-standard taper C) Brown and Sharp taper D) Morse standard taper 22. In a shaper rotary motion is converted into reciprocating motion by means of A) Shaft and pulley B) Rocker arm and bull gear C) Rack and pinion D) Worm and worm wheel 23. The number of threads per inch can be checked with a A) Tool gauge B) Metric rule C) Ring gauge D) Screw pitch gauge

24. Slotter is specified by

A) Table diameter

B) Maximum stroke of its ram

C) Number of strokes per minute

D) All of the above

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25.	While planning a work piece the fee	d is provided intermittently at the

- A) Middle of return stroke
- B) Middle of forward stroke

C) Forward stroke

- D) Return stroke
- 26. Type "A" arbor is used for mounting
 - A) Large size face milling cutter
 - B) Drills, reamers, clutches etc.
 - C) Shell end mill cutter
 - D) End mill cutter
- 27. Solid milling cutters are manufactured from
 - A) Stellite

B) Ceramic

C) High speed steel

- D) Sintered carbide
- 28. In spur gear of pitch diameter = 168 mm, module = 3.25 mm, the number of teeth will be
 - A) 48 teeth
- B) 24 teeth
- C) 72 teeth
- D) 96 teeth
- 29. How many seconds are there in angle of 5 degree ?
 - A) 6000
- B) 9000
- C) 1800
- D) 18000

- 30. Fire is a combination of
 - A) Fuel, light and oxygen

- B) Fuel, heat and oxygen
- C) Fuel, heat and carbon dioxide
- D) Fuel, light and nitrogen
- 31. The minimum measurement that can be read with the help of a steel rule is
 - A) 0.01 mm

B) 0.02 mm

C) 0.05 mm

- D) 0.50 mm
- 32. Drill sleeve is used when the taper shank of the drill is
 - A) Smaller than the machine spindle
 - B) Larger than the machine spindle
 - C) Equal to the machine spindle
 - D) None of the above

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33.	Which one of the fo	ollowing metals has	less	carbon content	?
	A) Cast iron		B)	Pig iron	
	C) Wrought iron		D)	Plane carbon s	teel
34.	Which one of the fol operations?	llowing processes is	used	for removing scr	ratches from previous
	A) Painting	B) Oxidation	C)	Polishing	D) Enameling
35.	5. Which one of the following properties is the most essential for the metals in process of casting, welding, brazing and soldering?				for the metals in the
	A) Fusibility	B) Malleability	C)	Tenacity	D) Plasticity
36.	Reamer is made of	•			
	A) Alloy steel		B)	High speed stee	el
	C) High carbon ste	eel	D)	All of the above	
37.	Least count of vern	nier bevel protractor			
	A) One minute	B) Two minutes	C)	Five minutes	D) Ten minutes
38.	Stub arbor type "A"	used for mounting			
	A) Plain milling cu	tter	B)	Face milling cut	tter
	C) Side and face n	nilling cutter	D)	Shell end millin	g cutter
39.	The back side of ar A) Easy in making	n angle plate has rib	s. W	hat is its functio	n ?
	B) For lifting the ar				
	C) For clamping	igie plate			
		le plate from distorti	on		
40					
40.		e in how many grade		1.0 and 0	D) 1 10
	A) A, B and C	B) A and B	()	1, 2 and 3	D) 1 and 2

41. What type of thread on bench vice spindle is?

A) V-threads

B) Square threads

C) Acme threads

D) Buttress thread

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42. Duraluminium is a alloy of

A) Silver

B) Nickel

C) Copper

D) Aluminium

43. The mechanical property of metal is

A) Colour

B) Weight

C) Toughness and brittleness

D) Magnetism

44. Annealing is done

A) To reduce distortion

B) To increase the hardness

C) To increase the toughness

D) To increase the machining property

45. Hole tolerance is size difference

A) Maximum hole and minimum hole

B) Maximum hole and maximum shaft

C) Maximum hole and minimum shaft

D) Minimum hole and minimum shaft

46. Lathe bed is made of

A) High speed steel

B) High carbon steel

C) Mild steel

D) Cast iron

47. Back gear is used in conepulley head stock on lathe

A) To increase speed

B) To decrease speed

C) To change the direction of speed

D) None of these

48. Which type of chuck is used for self alignment?

A) Magnetic chuck

B) Three jaw chuck

C) Four jaw chuck

D) None of these

49. What is the backbone of lathe machine?

A) Lathe bed

B) Tool post

C) Tail stock

D) Carriage

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50.	To convert circular motion into longitudinal motion which type of bolt is used?				
	A) Cotter bolt	B) Sheckle bolt			
	C) Levis bolt	D) Eye bolt			
51.	Which type of nut is used in precision instrument?				
	A) Ring nut	B) Dome nut			
	C) Cap nut	D) Thumb nut			
52.	Jig and fixtures are made in such type that				
	A) To guide the cutting tool				
	B) To hold the job strongly				
	C) To prevent the job from slipping				
	D) To get the maximum production in short time				
53.	Main use of coolant on machine tool				
	A) To minimize the friction between two mating parts				
	B) To cool the parts of machine				
	C) To wet the two mating parts				
	D) To save the machine tool from he	ating			
54.	Counter boring is done for				
	A) Accommodating socket head screen	ews			
	B) Finishing bored holes				
	C) Enlarging holes to accurate size				
	D) Deburring hole ends				
55.	Quick return mechanism is provided on shaper to reduce the time required for				
	A) Forward stroke	B) Return stroke			
	C) Forward and return stroke	D) None of these			
56.	Clapper box of a shaper is used to				
	Avoid overhanging of tools	B) Lift the tool in the middle of strokes			
	C) Lift the tool during return stroke	D) Lift the tool during cutting stroke			

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5/.	The size of a pia	iner is determined by	the maximum len	gurorule		
	A) Housing	B) Work piece	C) Stroke	D) Bed		
58.	An angular surface is machined on a planer					
	A) By fixing the	job at an angle				
	B) By swivelling	B) By swivelling the tool head of the planer				
	C) By swivelling	g the tool head and fix	ting the tool at an	angle		
	D) By tilting the	table of the planer				
59.	Gang milling ope	Gang milling operation is usually performed when				
	A) Single piece	to be milled	B) Repair wor	k is to be done		
	C) For mass pro	oduction	D) None of the	ese		
60.		the pitch diameter 4 per of teeth will be	0 mm, outside d	iameter 48 mm, module		
	A) 10 teeth	B) 20 teeth	C) 30 teeth	D) 40 teeth		
61.	Slitting saw is used for					
	A) Angular mad	hining	B) Cutting key	/ way		
	C) Cutting conv	vex grooves	D) Cutting of I	ong slot		
62.	Truing of grinding wheel is done by which tool?					
	A) Diamond too	B) V-tool	C) White tool	D) Round nose tool		
63.	Cutting tool used in planning machine is					
	A) Multipoint cu	utting tool	B) Single poin	it cutting tool		
	C) End mill cutt	er	D) None of the	ese		
64.	Which of the following is not the part of combination set?					
	A) Centre head	Company (Series)	B) Square hea	ad		
	C) Stock		D) Protractor I	nead		
65.	Which one of the following materials is used for making a grinding wheel?					
	A) Calcium carl	oonate	B) Sand			
	C) Granite		D) Silicon cart	oide		
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66.	Which one of the fol	lowing cutting fluids	is is	used during grind	ding mild steel?
	A) Paraffin	B) Soluble oil	C)	Mineral oil	D) Kerosene
67.	The distance a drill called	moves into the wo	ork '	for each revoluti	ion of the spindle is
	 A) Speed of drill 		B)	Cutting speed of	of drill
	C) Feed of drill		D)	Depth of drill	
68.	The difference betwa component is	een maximum limit	of s	ize to its corresp	onding basic size of
	A) Tolerance		B)	Lower limit	
	C) Actual deviation		D)	Upper deviation	
69.	C N C machines are operated by controller of				
	A) Programme		B)	Cam	
	C) An operator		D)	Board system	
70. You have to cut threads on aluminium, which one of the you use?			ich one of the fo	llowing coolants will	
	A) Kerosene		B)	Lard oil	
	C) Soluble oil		D)	Vegetable oil	
71.	Indexing head mech	anism works with			
	A) Rack and gear		B)	Worm and worm	gear
	C) Two helical gear		D)	Two bevel gear	
72.	The distance between	en two teeth is called	t		
	A) Lead		B)	Margin	
	C) Pitch		D)	None of these	
73. Which one of the following standard tapers is self holding type				pe?	
	A) Morse taper			Matric taper	
	C) Brown and sharp	taper	D)	Jerno taper	
74.	The taper shank drill	s are held on the ma	achi	ine by means of	
		B) Drifts		Sleeves	D) Vice
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- 75. The distance which the cutting edge of a tool passes over the material in a minute while machining is called
 - A) RPM

B) Machine speed

C) Cutting speed

D) Feed

- 76. Centre drilling is an operation of
 - A) Drilling and counter sinking
 - B) Marking the centre location before drilling
 - C) Drilling and counter boring
 - D) Enlarging the diameter of a hole
- 77. The feeler gauge is used for
 - A) Checking the accuracy of hole
 - B) Checking surface roughness
 - C) Checking the radius of work
 - D) Checking the gap between mating parts
- 78. The size of three-jaw chuck is specified by
 - A) The diameter of the body of the chuck
 - B) The thickness of each jaw
 - C) The size of each jaw
 - D) Width of the body of the chuck
- 79. One of the taper turning methods is by offsetting the tail stock. Which part of the tail stock is offset?
 - A) Body
- B) Base
- C) Carriage
- D) Spindle

- 80. Tap is used for
 - A) Making round hole on a job
 - B) Making internal threads in a hole
 - C) Making external threads on a rod
 - D) All of the above

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81.	The greatest mountain in Aravalli Ranges				
	A) Gurusikhara	B) Mahendra Giri	C) Kygwir	D) Nandadevi	
82.	Among the following rivers which is flow through desert?				
	A) Patma	B) Godavari	C) Luni	D) Amaravati	
83.	The first Biosphere	Reserve in India			
	A) Tenmala	B) Nilagiri	C) Gian Bharathi	D) Dibrusaikov	
84.	Which among the	following is selected	for the Gandhi Peac	ce Prize in 2015?	
	A) NHRC	B) ISRO	C) SEBI	D) IGNOU	
85.	The 12 th SAF Gam	e has been decided	to conduct in		
	A) Tamil Nadu	B) Karnataka	C) Bihar	D) Kerala	
86.	Which state in Indi	a firstly issued soil h	ealth cards to farme	ers?	
	A) Haryana	B) Bihar	C) Punjab	D) Uttaranchal	
87.		in Nepal, considered e recent earthquake		dest Buddhist shrine,	
	A) Swayambhuna	th Stupa	B) Barhut Stupa		
	C) Amaravati Stup	oa	D) Sanchi Stupa		
88.	To whom the Jnanapita award of 2014 is given?				
	A) Amrita Preetha	m	B) Tharasankar B	andopadhyaya	
	C) Balachandra Nomade		D) Sumithrananda	ın Panth	
89.	The GST Bill was p	bassed by Lok Sabha	a on		
	A) May-10-2015	B) June-6-2015	C) June-10-2015	D) May-6-2015	
90.	The Vernacular Press Act was passed in the year				
	A) 1885	B) 1878	C) 1875	D) 1856	
91.	Communal Award was announced by				
	A) Lord Linlithgo	B) Lord Wavel	C) Lord Minto	D) Ramse Macdold	
92.	Brahma Samaj was formed in the year				
	A) 1830	B) 1825	C) 1828	D) 1875	
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- 93. The East Indian Association was formed by
 - A) Dada Bai Naoroji

- B) Surendranath Bannerji
- C) Gopalakrishna Gokhale
- D) Bala Gangadhara Tilak
- 94. Choorni is the old name of
 - A) Pamba

B) Chaliyar

C) Periyar

- D) Bharatha Puzha
- 95. The length of Kerala Sea Coast
 - A) 585 km

B) 580 km

C) 568 km

- D) 565 km
- The birth place of Vagbadananda
 - A) Thalassery in Kannur
 - B) Patyam in Kannur
 - C) Venganoor in Thiruvananthapuram
 - D) Venganur in Thiruvananthapuram
- 97. The book 'Shivashathakam' written by
 - A) Chattambi Swamikal

- B) Ayya Vaikundar
- C) Brahmananda Sivayogi
- D) Shreenarayan Guru
- 98. The organisation 'Vidya Poshini' was formed by
 - A) Pandit Karuppan

B) Ayyankali

C) Poikayil Yohannan

- D) Sahodaran Ayyappan
- 99. Sadhujana Paripalana Sangam was formed by
 - A) Ayyankali

B) Sahodaran Ayyappan

C) Kumara Guru

- D) Vaikunda Swamikal
- 100. 'Al Islam' is the news paper of
 - A) Sir Sayyid Ahmed Khan
- B) K. M. Moulavi
- C) Vakkam Abdul Khader Moulavi
- D) Abdul Rahiman

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