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Questing Paper Group Name: Mechanical-3

Question Paper Post Normas: Craft Instructor-Fitter, Craft Instructor-Turner

Duration: 60 Minutes

#### **ENSTRUCTIONS**

- This Question Paper Buildet contents 40 mandatory questions. Candidate should check the Question Paper Booklet and ensure that it contents all pages and questions before starting to answer. If candidate finds any problem pertaining to printing/ binding/ incomplete pages etc, candidate should immediately get the Question Paper replaced from the invigilator.
- Candidate has to write him her sest number in this block.
- The Question Benkint Number as printed above should be mentioned at the appropriate place on the OMR Answer Sheet.
- 4. All the Questions are provided with 4 options as 1, 2, 3 and 4. Candidate should select the most correct Option and mention the Option Number on the OMR Answer Sheet in front of the respective Question Number by fully shading the Option Humber with MACK WILL POINT SEN Only.
- 5. All Questions carpy again, marks, i.e. 2 Question has a weightage of 1 marks. Candidate should mind the available time for the examination and solve the questions accordingly.
- 6. The option shaded drice on the OMM Answer Sheet should not be roughed or in any other way changed. Thus candidate should take utmost care while marking their options on OMR Answer Sheet. Such changes if any or any attempt to rough/ change options shell not be checked by the authorities.
- Marks shall be everded to the correct answers only during the evaluation of the OMR Answer Sheet. No marks shall be deducted for registering wrong answers (shading wrong option) or not attempting questions. Thus there is NO NEGATIVE ASSESSED.
- 8. All the rough work has a like items on the sheet provided for Rough Work in the Question Booklet only. Writing anything on the Quantilen Paper Booklet, OMR Answer Sheet or any other Paper Sheet shall be treated as an unfair means and entitle for action under "Prohibition of Unfair Practices during examination Ordinance 1982".
- 9. Method of Shading the Correct Option on the OMR Answer Sheet:

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Q.No. 25. How many Centimeters make 1 Meter?

(1) 10

(2) 100

(3)

(4) 10000

The Correct Option for this Question is (2) and hence the (2) option on the ONE Answer Sheet in front of Question Number 25 has to be sheded as following

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**799** 

Correct Mathod of Shading

Wrong Method of Skading

consideration of the second

## IMPORTANT

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THIS CLIESTICAL PARENT OF THE AND ADDRESS.—I. OF COMP. AMERICA. SUPPRINCE TO BE SUMMETTED TO THE

1. Which hie is used to make accurate size	e of work piece with high degree of finish?
1. Rough file	2. Bastard file
3. Smooth file	4. Dead smooth file
2. As per System International 1 micron m	eans
1. 0.1 mm	2. 0.01 mm
3. 0.001 mm	4. 0.000001 mm
3. Feed in drilling depends on	
1. Finish required	2. Drill material / Type of drill
3. material to be drilled	3. All of the above
4. A screw thread designated by M 24 X 2	has an angle of thread equal to
1. 55 <sup>0</sup>	2. 60°
3. 29 <sup>0</sup>	4. 45 <sup>0</sup>
5. Percentage of carbon in mild steel is	
1. 0.5% to 0.7 %	2. 0.7 % to 0.9 %
3. 0.15% to 0.13 %	4. 1.1 % to 1.4 %
6. Width of a small slit of size 0.0125 mm i use?	s to be measured / checked which measuring device will you
1. Inside micrometer	2. Small jaws of vernier calipers
3. Steel rule	4. Fieler gauges
	e is 0.5 mm. The number of graduations along the circumference What is the least count of the micrometer screw gauge?
1. 0.005 mm	2. 0.01 mm
3. 100 microns	4. 0.1 mm

I. WK	rometer seren ga	uge	2. Vernier can	pers
3. Slip	gruges		3. Steel rule	
10. 30H796 is	the designation o	f a fit what does '3	O' represent?	
1. Exa	ct size of hole, (sh	aft is smaller)	2. Exact size o	f shaft
			aft 4. None of the	
J. 043	ic site, caramana o	) DOM: HOLE BITO 24	are 4. None of the	
			e Victoria de Albanda. O Victoria de Albanda	1 - ys 9€ :
11. Which typ	e of fit is Hg-d <sub>10</sub> ?			
1. Inte	erference fit		2. Clearance fi	t
3. Tra	nsition fit		4. None of the	above
.*				
12. Which of t	he following is an	interference fit?		
1 Hi			2. H <sub>7</sub> -n <sub>6</sub>	
1. Hy-l 3. Hy-S				
			4. H <sub>g</sub> -f <sub>7</sub>	
•			· Table 1 · Tab	
13. Which is th	e symbol for cylin	dricity in the conto	ext of form tolerance	<b>s</b> 7
1.C	20	, by .		
<b>-</b>				
				2. 3 2.2.4
14. Following i	s not the commor	ily <b>available s</b> ize of	sine bar to check ta	
1. 100	mm	<b>4</b> 7. <b>2</b>	200 mm	
3. 250	mm	Weight 2	145 mm	

8. Which of the following latting fluids is the most popular variety because of allity to be used for number of machining operations and charpness?

9. Which of the following measuring devices is not an end standard?

2. Servosynth 2

4. Benzene

1. Soluble oil

3. Servosynth 5

	1. 0.9% to 1.4%	2. 0.25% to 0.6%
	3. 0.6% to 0.9%	4. Below 0.25%
16. Car	bon content in steel required for full har	dening is
	1. 0.25% C	2. 0.4% C
	3. 0.45%	4. Above 0.6% C
17 . WI	nat is the average temperature produced	by arc in the arc welding process?
	1. About 6000°C	2. about 600 °C
	3. about 100 °C	4. about 1000°C
18. Wh	at is the range of roughness values prod	uced in filing?
	1. Ra=1.5 to 50 Microns	2. Ra= 1.6 to 25 Microns
	3. Ra* 0.04 to 0.16 Microns	4. Ra= 0.25 to 25 Microns
19. For	Step turning on lathe we need	
	1. Plain turning tool	2. Parting tool
	3. Broad nose tool	4. Facing tool
20. The	e tempering temperature for carbon stee	els are
	1. Below 220°C	2. Above 320°C
	3. Above 370°C	4. Between 220°C to 320°C
21. Effe	ect of coolant on cutting tool is	
	1. Increases tool life	2. Revents chips sticking to tool
	3. Reduces tool forces on the job	4. All of the above

15. What is the range of carbon content in tool steels?

# 22. For a single point lathe cutting tool the value of top rake angle is usually

1. 10 degree

2. 15 degree

3. 65 degree

4. 45 degree

## 23. For turning soft materials tool angles provided are

1. Very small

2. Large

3. 2 degree

4. 3 degree

## 24. Following instrument is very useful in various alignment tests on lathe machines and drilling machines

1. Vernier calipers

2. Spring Calipers

3. Feeler gauges

4. Dial indicator

$$1.\frac{D+d}{2}$$

2. 
$$D + \frac{d}{2}$$

$$3.\frac{D-d}{2}$$

$$4.\frac{D}{2}+d$$

1. 2 mm

2. 4 mm

3.8 mm

4.6 mm

- 1. Lead screw in amchines
- 2. Screw of screw jack
- 3. Spindle threads of vices
- 4. All of the above

## 28. A 10 TPI thread has a pitch of

1.2 mm

2.5 mm -

3. 2.54 mm

4. 1.5 inch

	1. Reducing setting time	2. Reducing equality
	3. Reducing working hours	4. Reducing lubricants
30. Knu	rling tool is used for	
	1. Stock removal	2. Rough Cutting
	3. Obtaining rough surface for better hand grip	4. None of the above
31. Bori	ing is not done with	
	1. Boring bar	2. Boring tool
	3. Facing tool	3. File
32. Acc	uracy of machine tool is tested periodically. This	is required to ensure
	1. Accuracy of operations on the machine	2. Accuracy of measuring devices
	3. Performance of operator	4. None of the above
33. Tap	s and dies are	
	1. Chamfering tools	2. Finishing tools
	3 Threading tools	4. None of the above
34. Tap	er angle is measured with the help of	
	1. Angle dekkar	2. Micrometer screw gauge
	3. Feeler gauges	4. None of the above
35. Flat	ness of the lathe machine bed is tested with	
	1. Micrometer screw gauge	2. Steel rule
	3. Spirit level	4. None of the above

29. Cycle time of operation can be reduced by

1. Furnace brazing	2. Induction brazing
3. Torch brazing	4. Fillet brazing
	ما مراسوم فحالت مختاه
37. Cutting speeds recompanied for H.S.S. Drill	B for Hind Steels 6
1. 23 m/min	2.8 m/min
3. 10 m/min	4. 40 m/min
38. For 20 mm diameter drill feed per revolution	n recommended is
1. 0.1 mm / rev	2. 0.28 mm / rev
3. 0.34 mm / rev	4. 0.16 mm / rev
3. 0.34 Hill Page	4. 0.20 HBM / 100
	na dia mandria dia mpikambana dia mpikambana dia mpikambana dia mpikambana dia mpikambana dia mpikambana dia m Mpikambana dia mpikambana dia mpikambana dia mpikambana dia mpikambana dia mpikambana dia mpikambana dia mpika
39. Following is the least count of widely used n	netric vernier height gauge
1. 0.1 mm	2. 0.001 mm
3. 0.5 mm	4. 0.02 mm
en e	
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	required to be cut 2 mm plich threads. Then speed of
on spindle shall be speed of gear	on lend screw.
1. Equal to	2. 3 times
3.4/3 times	4. 6 times
	- O LHIES

36. Following is not meth

# SPACE FOR ROUGH WORK