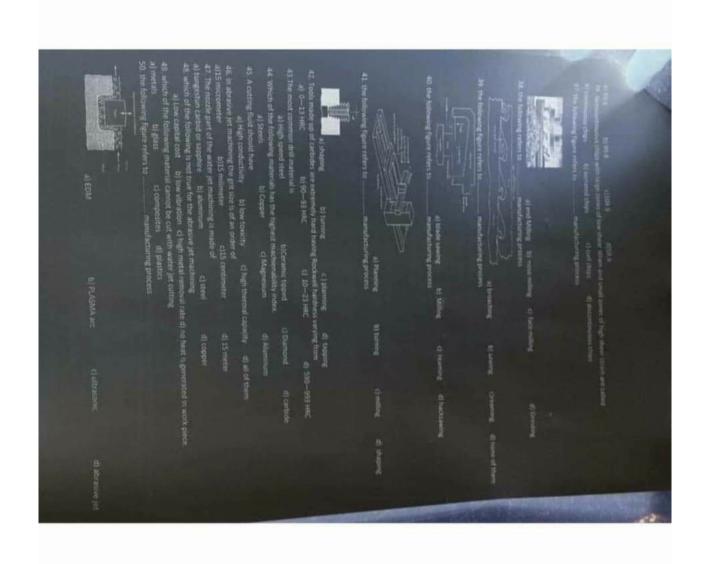
14. III braze welding t	The motinate to	
 Distributed by capilla 	ary action	
b. Melted and deposite	ed at the point where the weld is to be made	
c. Both a and b	d. None of the above	
15. Amount of curren	t necessary in resistance welding is of the order of	
a. 1-2 kVA/cm²	b. 2.5-4 kVA/cm ²	
c. 4.5-6.2 kVA/cm ²	d. None of the above	
	cutting tool life VT°=C, the numerical value of n for high speed steel	
tools vary in the rang a. 0.1 to 0.15	b. 0.20 to 0.25	
	d. None of the above	
0. 0.25 to .40	d. Notice of the above	
17. In a turning opera	tion the tool life of the carbide tool was found to be 20 minute and 100	
minute at cutting spe	eds of 120 m/min respectively. What will be the tool life of the tool under	
	ut at a cutting speed of 100 m/min?	
a. 31 minutes b. 41 n	ninutes c. 36 minutes d. None of the above	
18. Product layout is	known as	
a. Analytical layout	b. Synthetic layout	
c. Static production lay	out d. None of the above	
10. In which of the las	yout, similar operations are performed at the same place always	
a. Process layout	b. Product layout	
a. i ioosso iayou	b. Trouble by our	
c. Combination layout	d. Fixed position layout	
20. Which of the follo	wing types of flames has a supply of excess of acetylene as compared	
to oxygen?		
a. Oxidizing flame	b. Neutral flame	
c. Carburizing flame	d. None of the above	
	ication can be achieved by providing	
a. chills and chaplets	b. chaplets and padding	
c. chills and padding	d. chills, chaplets and padding	
22. Rolling very thin s	strips of mild steel requires	
	_	



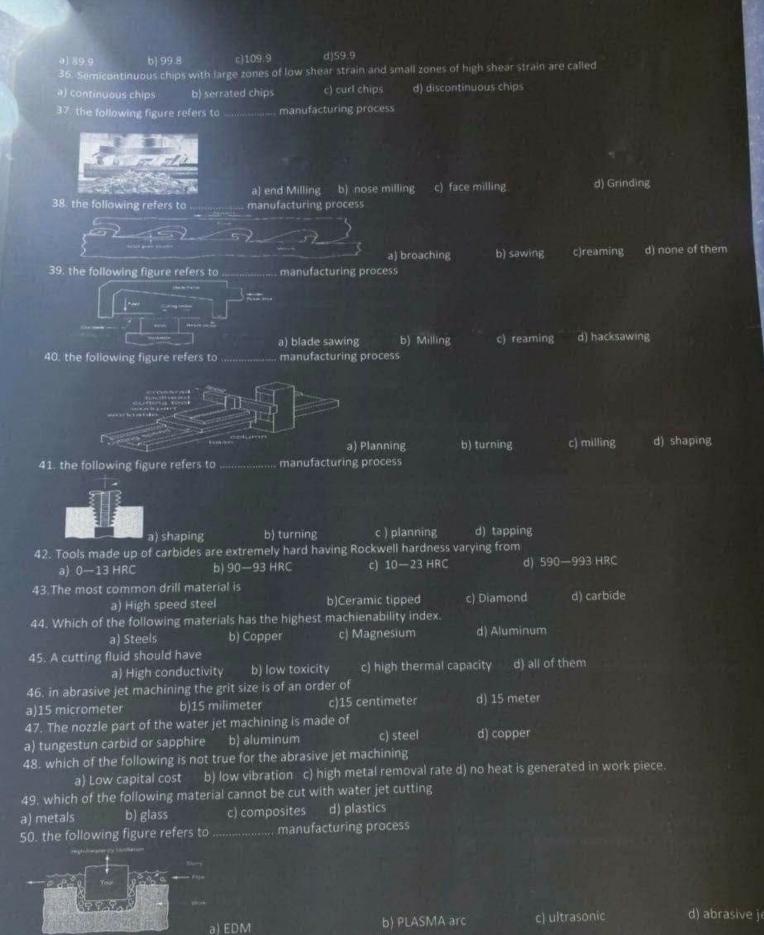






b. moves in longitudinal direction c. vibrates in transverse direction d. vibrates in longitudinal direction (Ans:d) In which of the following processes, the shape of tool is not same as that of cavity produced? a. Ultrasonic Machining b. Electrical discharge Machining c. Electrochemical Machining d. Plasma arc machining (Ans:d) In which of the following processes, a nozzle is used? i. Plasma arc machining ii. Ultrasonic Machining iii. Abrasive jet machining b. ii & iii c. i & iii d. i, ii & iii (Ans:c) In which of the following gases is not used in Abrasive jet machining? a. Air b. Nitrogen c. Carbon di-oxide d. Argon (Ans:d) 1. In an orthogonal cutting, the depth of cut is halved and feed rate is double. If the chip thickness ratio is unaffected with the changed cutting conditions, the actual chip thickness will be a. Doubled b. Halved c. Unchanged d. None of the above 2. Cast iron during machining process produces a. Continuous chips b. Discontinuous chips c. Continuous chips with built up edge d. None of the above 9 of 18

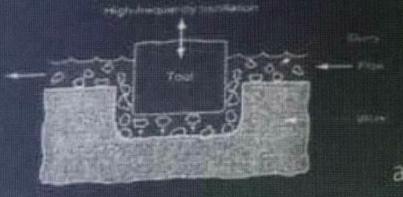
a. moves in transverse direction



8. The powder metallurgy technique for the product of precision component is characterized						
mainly by reduction in						
a. Material cost b. Machining cost						
c. Equipment cost d. None of the abo	ove					
9. Magnetic arc blow is						
a. A recent welding technique	b. Used to weld hard materials					
c. Phenomenon on occurrence of splatter because magnetic field is created in d.c. arc welding.						
d. None of the above						
10. In rolling operation the roll rotate w						
a. Exceeding the speed of incoming meta	al b. Lower than the speed of incoming metal					
c. Equal to speed of the incoming metal	d. None of the above					
or adom to speed or the meaning mean						
11. Process of extrusion is like						
a. A viscous lubricant pouring the mouth of	of container					
h A touth costs coming and of its tribe						
b. A tooth paste coming out of its tube						
c. Hard particles thrown out of a nozzle under air pressure						
	e. Hard particles unlown out of a nozzie under all pressure					
d. None of the above						
12. Material good for extrusion is						
12. Material good for extrusion is a. Stainless steel b.	Brass					
	Brass					
a. Stainless steel b.	Brass d. None of the above	4				
a. Stainless steel b.		4 7				
a. Stainless steel b.		4 7				
a. Stainless steel b.		4 7				
a. Stainless steel b.		4 7				
a. Stainless steel b.		47				
a. Stainless steel b.		4 7				
a. Stainless steel b.		4 7				
a. Stainless steel b.		4 7				
a. Stainless steel b.		47				
a. Stainless steel b.		47				
a. Stainless steel b.		47				
a. Stainless steel b. c. Low carbon annealed steel		47				
a. Stainless steel b. c. Low carbon annealed steel contains a steel conta	d. None of the above					
a. Stainless steel b. c. Low carbon annealed steel contains a steel conta	d. None of the above	47				
a. Stainless steel b. c. Low carbon annealed steel commetallurgy is a. Liquid metal spray b.	d. None of the above	4 7				
a. Stainless steel b. c. Low carbon annealed steel commetallurgy is a. Liquid metal spray b.	d. None of the above	4				
a. Stainless steel b. c. Low carbon annealed steel commetallurgy is a. Liquid metal spray b.	d. None of the above	~				
a. Stainless steel b. c. Low carbon annealed steel commetallurgy is a. Liquid metal spray b.	d. None of the above	4				
a. Stainless steel b. c. Low carbon annealed steel commetallurgy is a. Liquid metal spray b.	d. None of the above production of metal powder for use in powder crushing using impact None of the above	47				
a. Stainless steel b. c. Low carbon annealed steel contact the state of the state o	d. None of the above production of metal powder for use in powder crushing using impact None of the above	~				
a. Stainless steel b. c. Low carbon annealed steel comments and the state of the s	d. None of the above production of metal powder for use in powder crushing using impact None of the above	4				
a. Stainless steel b. c. Low carbon annealed steel contains a stain of the stain o	d. None of the above production of metal powder for use in powder crushing using impact None of the above	4				
a. Stainless steel b. c. Low carbon annealed steel comments and the state of the s	d. None of the above production of metal powder for use in powder crushing using impact None of the above	47				

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a) EDM

b) PLASMA arc

28. Consider the following statements: The tool life is increased by							
built up edge formation							
2. increasing cutting velocity							
3. increasing back rake angle up to certain value							
Which of these statements are correct?							
a. 1 and 3 b. 1 and 2 c. 2 and 3 d. 1, 2 and 3							
29. Consider the following mechanisms: 1. Geneva gearing 2. Rack and pinion 3. Ratchet and pawl							
Which of these mechanisms are used to index the work table on a transfer machine?							
a. 1 and 2 b. 2 and 3 c. 1 and 3 d. 1, 2 and 3							
30. Consider the following statements in respect of a grinding wheel of specifications, 51-A-							
36-L-7-R-23, using the standard alphanumeric codification: 1. Abrasive used in the wheel is aluminium oxide 2. The grain size of abrasive is							
medium							
The wheel grade is medium hard 4. It has an open structure							
5. It has resinoid as bonding agent							
Which of these statements are correct?							
a. 1, 2 and 3 b. 1, 3 and 4 c. 2, 3 and 5 d. 1, 4 and 5							
Which of the following are produced by slush casting? a. Hollow castings with thick walls b. Hollow castings with thin walls							
c. Thin castings d. Thick castings							
32. Which one of the following welding processes consists of smaller Heat Affected Zone							
(HAZ)? a. Arc welding b. Electron beam welding							
c. MIG welding d. Thermit welding							
33. Gear shaping is a process of manufacturing gears. Which one of the following principles							
is employed by it? a. Form cutting with gear b. Generating tooth form with a reciprocating cutter.							
c. Generating tooth form by a rotating cutter							
ا ا							

a) counter sink tool	b) reamer tool c) g	un drill tool d) counter bo	re tool	
16. drill tool materia	al used for high production a	nd CNC machines		
	Carbide tipped drills	c) low carbon steel	d) all of them	
17. A peripheral mi milling cutter, which	lling operation is performed is 80 mm in diameter and h /tooth, and depth of cut = 5 b)843 mm/min	as five teeth, overhangs the	angular workpart which is e width of the part on bot d) 438 mm/min	s 400 mm long by 60 mm w h sides. Cutting speed = 70
a) increase depth of			d) use effective cut	eina fluid
			d) use effective con	ung nuiv
	e increases the undeformed			
	don't affected c) decreases			
a) slab milling	, the axis of cutter rotatio			
	b) ball milling		ce milling	
	process, Max chip thickness			
	lown milling c) end milling			
	ng is not true for the upmil	ling process		
	l life c)tendency for the too		one of them	
23. Because of the res backlash must be elim	sulting high impact forces with inacted in the table feed me	hen the teeth engage the echanism inmillin	workpiece, this operatior	n must have a rigid setup, a
		ng d) ball milling		
24milling	process can produce a var	iety of surfaces at any dep	th, such as curved, stepp	ed, and pocketed
	own milling c) up milling			
	he problem of burr format			
	exit angles b) dull cutting			
	it supports the table and c			
a) saddle	b) overarm	c) compound wrest	d) knee	
27. one of the followin	g is not true for the mater	ial removal processes com	pared to forming	
a) waste of material	b) time consuming pro	cess c) bad dimer	nsional accuracy d) straight edges and surfac
28. Which of these stat	ements are correct? built	up edge may be reduced l	by:	
1. decreasing depth of t	the cut 2. Increasing	cutting velocity 3. increa	sing back rake angle	
	1 and 2 c) 1 ar			
	made with a rake angle o 50,000 lb/in ² , and the ch			
29. The shear angle is a) 29.2° b) 22.5	9° c) 92.2°	d)9.22°		
30. The sheer force is a) 812 lbb) 182 lb	c)821 lb d) 12	8 lb		
31. the cutting force is a) 632 lb b)326 l	b c) 623 lb	d) 236 lb		
32. the thrust force is	-\/22016	d) 22 lb		
a)922 lb b)129 l *Tool life tests in turning	b c) 229lb	(1) when cutting speed	is 100 m/min, tool life i	s 10 min
(2) when cutting speed is	s 75 m/min,tool life is 30	min. Answer questions	33,34,and 35 using Tay	lor equation
33. the value of the expo		J) 0 (2 2 0	0.8216	
a) 0.1268	b) 0.2618	c) 0.6218 d)	0.5210	
34. the value of the const a) 287.15 b) 182.3		d)578.12		

h of 9, 30 38. Which one of the following is not an electric resistance method of welding? a. Electro slag welding b. Percussion welding c. Seam Welding d. Flash welding 39. In one setting of rolls in a 3-high rolling mill, one gets a. one reduction in thickness b. two reductions in thickness c. three reductions in thickness depending upon the setting 40. At room temperature, which one of the following is the correct sequence of increasing hardness of the tool materials? a. Cast alloy-HSS-Ceramic-Carbide b. HSS-Cast alloy-Ceramic-Carbide c. HSS-Cast alloy-Carbide-Ceramic d. Cast alloy-HSS-Carbide-Ceramic