## 026/2025

Maximum: 100 marks

Time: 1 hour and 30 minutes

1.	White symbol on blue background is used for which type of safety sign?			
	(A)	Prohibition sign	(B)	Mandatory sign
	(C)	Warning sign	(D)	Information sign
2.	The basic	unit of length as per internation	onal system of	unit is:
	(A)	Micrometre	(B)	Millimetre
	(C)	Centimetre	(D)	Metre
3.	What is th	ne least count of vernier sliding	g caliper?	
	(A)	0.01 mm	(B)	0.02 mm
	(C)	0.03 mm	(D)	0.04 mm
4.	What is th	ne use of retaining pins in hack	saw frame?	
	(A)	Locating holder	(B)	Locating blade
	(C)	Locating nut	(D)	Locating pins
<b>5.</b>	What is C	stands for ABC of First aid?		
	(A)	Cardiac arrest	(B)	Confusion
	(C)	Circulation	(D)	Conclusion
6.	Which is t	he material used for making s	teel rule?	
	(A)	High speed steel	(B)	Spring steel
	(C)	Tool steel	(D)	Carbon steel
7.		y main scale divisions are tak nm accuracy?	cen for least co	ount calculation in vernier caliper
	(A)	8	(B)	9
	(C)	10	(D)	11
8.	What is th	ne pitch selected by cutting she	et metals by h	acksaw blade?
	(A)	0.6	(B)	0.8
	(C)	1.0	(D)	1.2

9.	Which term indicates the 'Discipline' or commitment of work place in 5 S concept?			
	(A)	Set	(B)	Sort
	(C)	Standardize	(D)	Sustain
10.	What is th	ne angle of punch which is used for co	rrect se	ating of divider point?
	(A)	120	(B)	90
	(C)	60	(D)	30
11.	In Micron	netre which part act as a nut?		
	(A)	Spindle	(B)	Barrel
	(C)	Thimble	(D)	Frame
12.	Which file	e is used for filing at right angles to th	e finisł	ned surface?
	(A)	Flat file	(B)	Hand file
	(C)	Smooth file	(D)	Second cut file
13.	Which is t	the colour code bin used in industry fo	r plasti	c waste?
	(A)	Green	(B)	Black
	(C)	Yellow	(D)	Red
14.	What is th	ne other name of Jenny caliper?		
	(A)	Firm joint	(B)	Spring joint
	(C)	Odd leg	(D)	Inside caliper
<b>15.</b>	The pitch	of Micrometer is 0.5 mm but lead is _		mm.
	(A)	0.5	(B)	1
	(C)	1.5	(D)	2
16.	While filir	ng metal chips are clogged between te	eth is k	nown as :
	(A)	Spinning	(B)	Pinning
	(C)	Filling	(D)	Thinning
17.	Which pre	eventive device is used against falling	device	in workshop?
	(A)	Shoes	(B)	Helmet
	(C)	Gloves	(D)	Apron

18.	18. Which hammer is used for spreading metal in one direction?			
	(A)	Ball pein	(B)	Cross pein
	(C)	Straight pein	(D)	Round pein
19.	Measuren range?	nent of 63.96 mm is taken fron	n an outside	Micrometre what is the minimum
	(A)	40	(B)	50
	(C)	60	(D)	70
20.	Which chi	sel is suitable for making groov	es?	
	(A)	Flat chisel	(B)	Cross cut chisel
	(C)	Diamond point chisel	(D)	Web chisel
21.	Which one	e of the following is a serious life	e threatening	condition?
	(A)	Heavy bleeding	(B)	Coma
	(C)	Severe burn	(D)	Falling
22.	For protec	eting finished objects which mat	erial is used f	for making soft jaws?
	(A)	Brass	(B)	Aluminum
	(C)	Copper	(D)	Zinc
23.	In Dial tes	st indicator which part helps to	align zero?	
	(A)	Stem	(B)	Bezel
	(C)	Plunger	(D)	Pointer
24.	Which tap	is used for finishing cut?		
	(A)	First tap	(B)	Second tap
	(C)	Plug tap	(D)	Intermediate tap
<b>25</b> .	Which one	e of the following indicates the a	uim of house k	xeeping?
	(A)	Clean dirt and sweep		
	(B)	Keep better environment		
	(C)	Clean object from gangway		
	(D)	Tools put on rack		

26.	Which one	Which one of the following operation cannot be done by try square?						
	(A)	Check squareness	(B)	Check flatness				
	(C)	Check finishness	(D)	Set at right angle				
<b>27</b> .	In vernier	height gauge scriber is made of which	n mate:	rial?				
	(A)	Stellite	(B)	Carbide				
	(C)	Tungsten	(D)	Ceramics				
28.	Which die	is used for resharpening threads?						
	(A)	Split die	(B)	Half die				
	(C)	Die nut	(D)	Plate die				
29.	What is th	ne popular method of waste disposal a	nd less	expense?				
	(A)	Composting	(B)	Land fill				
	(C)	Recycling	(D)	Incineration				
30.	What is th	ne least Count of Vernier bevel protrac	ctor?					
	(A)	5'	(B)	6'				
	(C)	7'	(D)	8'				
31.	What is th	ne use of reamer?						
	(A)	Roughing	(B)	Finishing				
	(C)	Sizing	(D)	Finishing and Sizing				
32.	Dry powd	er extinguishers are used to prevent _		type of fire.				
	(A)	Class B	(B)	Class C				
	(C)	Class D	(D)	All of these				
33.	Which one	e of the following part is not included i	in the c	combination set?				
	(A)	Square head	(B)	Protractor head				
	(C)	Screw head	(D)	Centre head				
34.	Which ins	strument is used for checking chords	al adde	endum and chordal thickness of a				
	(A)	Vernier caliper	(B)	Gear Tooth caliper				
	(C)	Vernier height gauge	(D)	Vernier depth gauge				

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<b>35.</b>	35. Which part is used for fine adjustment in a universal surface gauge?			
	(A)	Snug	(B)	Clamping nut
	(C)	Rocker arm	(D)	Guide pin
36.	While loa	d lifting what is the cause of muscle st	rain?	
	(A)	Rough edge of job	(B)	Sudden jerking
	(C)	Crushing foot	(D)	Age
37.	Which ma	arking media takes more time for dryin	ıg?	
	(A)	Marking blue	(B)	Prussian blue
	(C)	Copper sulphate	(D)	Cellulose lacquer
38.	In Micron	netre fine measurement can be taken v	vith th	e help of part.
	(A)	Lock nut	(B)	Ratchet stop
	(C)	Thimble	(D)	Anvil
39.	The opera	ation of countersinking is to make the s	surface	es:
	(A)	Bevelled edge	(B)	Conical edge
	(C)	Flat Edge	(D)	Square edge
40.	The chip l	breaker is used while turning	ma	aterials.
	(A)	Hardened	(B)	Ductile
	(C)	Malleable	(D)	Tougher
41.	In power knee?	feed mechanism of milling machine w	hich p	part connect the feed gear box and
	(A)	Feed shaft	(B)	Telescopic shaft
	(C)	Screw shaft	(D)	Vertical shaft
42.	Where is	the spot facing operation conducted?		
	(A)	Around both ends of hole		
	(B)	Around one end of hole		
	(C)	Around one end of counter		
	(D)	Around end of counter sinking bore		

43.	In power transmission which thread is used for power transmission?				
	(A)	Knuckle thread	(B)	Worm thread	
	(C)	Buttress thread	(D)	Acme thread	
44.	The specif	fication of plain milling cutter is	$30 \times 40 \times 27$	mm, in which 40 mm means?	
	(A)	Diameter	(B)	Bore	
	(C)	Length	(D)	Width	
<b>45.</b>	Which one	e of the following machine is driv	en by pneun	natic power?	
	(A)	Automatic drilling machine			
	(B)	Gang drilling machine			
	(C)	Portable drilling machine			
	(D)	Sensitive drilling machine			
46.	While app	olying pressure on threaded part,	which part	of thread acts as bearing surface?	
	(A)	Root	(B)	Crest	
	(C)	Flank	(D)	Pitch	
47.	For pocke	t milling operation which one of t	the following	cutter is used?	
	(A)	Side milling cutter	(B)	End milling	
	(C)	Half side milling	(D)	Plain milling cutter	
48.	Which one	e of the following is not used for h	nolding twist	drills?	
	(A)	Chuck	(B)	Sleeve	
	(C)	Adapter	(D)	Socket	
49.	In double	start thread lead is equal to:			
	(A)	Pitch	(B)	Double the pitch	
	(C)	Half the pitch	(D)	Thrice the pitch	
<b>50.</b>	For produ	cing convex surface on a work wh	nich cutter is	s used?	
	(A)	Formed cutter	(B)	Concave cutter	
	(C)	Convex cutter	(D)	Relief cutter	

<b>51.</b>	What is th	ne RPM for 25 mm twist drill?		
	(A)	Same as 10 mm drill	(B)	More than 10 mm drill
	(C)	Less than 10 mm drill	(D)	Maximum available speed
<b>52.</b>	For calibr	ation purpose which grade of slip ga	uge is us	ed?
	(A)	Grade 1	(B)	Grade 2
	(C)	Grade 0	(D)	Grade 00
<b>53.</b>	The relief	angle grinded on milling cutter is:		
	(A)	4°	(B)	5°
	(C)	6°	(D)	7°
<b>54.</b>	Which one	e of the following equation used for f	inding R	PM in drilling machine?
	(A)	$\pi d \div 1000$	(B)	$1000\ v \div d\pi$
	(C)	$1000 \pi \div d$	(D)	$dv \div 1000 \pi$
<b>55.</b>	The princ	iple of Sine bar is based on	fur	action.
	(A)	Logarithmic	(B)	Trigonometric
	(C)	Geometric	(D)	Derivative
<b>56.</b>	Which one	e of the following operation is known	as conve	ention milling?
	(A)	Straddle milling	(B)	Gang milling
	(C)	Up milling	(D)	Down milling
<b>57.</b>	Which pr surface?	operty of a lubricant help to with	stand hi	gh pressure or load on a bearing
	(A)	Fire point	(B)	Flash point
	(C)	Viscosity	(D)	Oiliness
<b>58.</b>	In a gear	train which one of the following is th	ne linking	g gear?
	(A)	Active gear	(B)	Idler gear
	(C)	Spur gear	(D)	Worm gear
<b>59</b> .	Which jig	is used to locate the work piece from	n its face	?
	(A)	Solid jig	(B)	Table jig
	(C)	Box jig	(D)	Channel jig

<b>60.</b>	The perio	dic maintenance helpful to avoid	of	f machine.		
	(A)	Weekly shutdown	(B)	Long shutdown		
	(C)	Short shutdown	(D)	Intermittent shutdown		
61.	For turning	ng a cored job which one of the follow	ing devi	ce used?		
	(A)	3 jaw chuck	(B)	4 jaw chuck		
	(C)	Mandrel	(D)	Face plate		
62.	Which att	eachment used for cutting gears in mi	illing ma	achine?		
	(A)	Slotting attachment	(B)	Indexing attachment		
	(C)	Spiral attachment	(D)	High speed attachment		
63.	Which on	e of the centre used for heavy job turn	ning wit	h high speeds?		
	(A)	Tipped centre	(B)	Inserted type centre		
	(C)	Revolving centre	(D)	Ball centre		
64.	Write the	equation for finding linear pitch in r	ack teet	h?		
	(A)	$\pi  m$	(B)	$2\pi m$		
	(C)	$\pim^2$	(D)	$2\pim^2$		
65.	While turning which device used to give torque to the work?					
	(A)	Catch plate	(B)	Dogs		
	(C)	Face plate	(D)	Angle plate		
66.	For right	angle power transmission which gear	r used?			
	(A)	Spur gear	(B)	Helical gear		
	(C)	Bevel gear	(D)	Worm gear		
67.	For turning	ng long taper which method used?				
	(A)	Compound rest swiveling method	(B)	Taper turning attachment		
	(C)	Offset tail stock	(D)	Compound feed method		
68.	In a simp	le indexing head where is the worm g	gear fitte	d?		
	(A)	Index crank	(B)	Worm shaft		
	(C)	Spindle	(D)	Index plate		

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		(C)	(i) only	(D)	(ii) and (iii) only			
		(A)	(i) and (iii) only	(B)	(i) and (ii) only			
	(iii)	Heio	lenhain and mitsubis	hi systems are CNC cor	atrol systems.			
	(ii)	Mag	nus and divine contro	ol systems are CNC con	trol systems.			
	(i)	Sinu	ımeric and fanuc cont	rols systems are CNC c	ontrol systems.			
73.	Which statement is/are correct with the CNC control system?							
		(C)	(ii) and (iii) only	(D)	(iii) only			
		(A)	(ii) only	(B)	(i) only			
	(iii)	Grea	ater flexibility of cont	colling and programmin	g.			
	(ii)	Rep	rogramming or editin	g the part program is ve	ery easy.			
	(i)	The	part programming is	done with punched care	ds.			
<b>72</b> .	Whi	Which statement is/are true with the advantage of CNC machine over NC machine?						
		(C)	(iii) only	(D)	Only (i) and (iii)			
		(A)	(i) only	(B)	Only (i) and (ii)			
	(iii)		Shift the levers to change the speeds and feeds only when the rotating parts are fully stationary.					
	(ii)		•	ve set the right tool dat				
	(i)				n you load a tool magazine.			
71.					ns regarding CNC lathe?			
		(C)	Lead	(D)	Axis			
		(A)	Rise	(B)	Lobe			
70.	Whi	ch car	n element cause recip	rocating movement to t	he follower?			
		(C)	Saddle	(D)	Bed			
		(A)	Head stock	(B)	Apron			

69. In which part of lathe contains the controlling mechanism of carriage?

74. Which statement is correct with the ISO G codes in sinumeric system				numeric system?			
	(i)	G63 code refers to tapping					
	(ii)	G90	code refers to absolute dimension				
	(iii)	G04	code refers to dwell				
		(A)	(i) only	(B)	(i) and (ii) only		
		(C)	(ii) and (iii) only	(D)	All of the above (i), (ii) and (iii)		
<b>75</b> .	Which statement is correct with the ISO M codes in sinumeric system?						
	(i)	M10	code refers to coolant off				
	(ii)	M04	code refers to spindle stop				
	(iii)	M09	code refers to coolant off				
		(A)	(i) and (ii) only	(B)	(ii) and (iii) only		
		(C)	(iii) only	(D)	All of the above (i), (ii) and (iii)		
76.	Which statement is/are correct with NC Co-ordinate system?						
(i) Spherical co-ordinate system is used in NC machines				ines			
	(ii)	Cart	esian Co-ordinate system is used in NC	macl	hines		
	(iii)	Cylin	ndrical Co-ordinate system is used in N	C ma	chines		
		(A)	(i) only	(B)	(ii) only		
		(C)	(i) and (iii) only	(D)	(iii) only		
77.	Which statement is/are true with the open loop control system and closed loop control system?						
	(i)	Open loop control system have the facility of feed back signal compared with the input signal.					
	(ii)	Closed loop control system have the facility of feed back signal compared with the input signal					
	(iii)	_	n loop system doesn't have the facility t signal	of fe	eedback signal compared with the		
		(A)	(i) only	(B)	(i) and (iii) only		
		(C)	(ii) and (iii) only	(D)	(i) and (ii) only		

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		(D)	(i) and (ii) only				
		(C)	(i) and (iii) only				
		(B)	(ii) and (iii) only				
		(A)	(i) only				
	(iii)	In jo	og mode, the turret can be moved in	X and Z	direction.		
	(11)		gram.	gram com	mana manaany ana execute the		
	(ii)		MDI mode, we can input the pro				
00.			uto mode the program can be edited	-	_		
80.	Whi	ch of t	the statement is/are true with the c	norationa	l modes in CNC turning?		
		(C)	(i) and (ii) only	(D)	(i) and (iii) only		
		(A)	(i) only	(B)	(ii) only		
	(iii)	32 ir	ndicates diameter of boring bar				
	(ii)	U in	dicates shape of holder				
	(i)	U in	dicates tool length				
79.		-	fication of CNC boring bar is S32 s holder?	2 USSw	which of the statement is/are true		
		(D)	All of the above (i), (ii) and (iii)				
		(C)	(ii) and (iii) only				
		(B)	(i) and (ii) only				
		(A)	(i) and (iii) only				
	(iii)	N35 G00 X050 220 – this block means rapid traverse to the position co-ordinates X50 220					
	(ii)	N30	G92 S1500 – this block indicates the	he minimu	um speed for 1500 rpm		
	(i)	N20	$20~\mathrm{G}54~\mathrm{M}03~\mathrm{S}500$ – this block indicates spindles speed $500$ in CW				
<b>7</b> 8.	Whi	ich statement is/are true with CNC machining sequence?					

81.	Whic	hich is/are not true with the safety of CNC milling machine?				
	(i)	Never reach into the machine while the cutter is rotating				
	(ii)	Safe	ty glasses must be worn in CNC area			
	(iii)	Do n	ot shift speed changing levers while the	e mac	hine is in motion.	
		(A)	(i) only	(B)	(ii) only	
		(C)	(i) and (iii) only	(D)	(iii) only	
82.	Whic	eh sta	tement is/are true with CNC milling?			
	(i)	The	up and down movement of tool refers to	Zax	is	
	(ii)	The	transverse movement of table refers to	Y axi	S	
	(iii)	The	left and right movement of table refers	to Z a	axis	
		(A)	(i) only	(B)	(ii) and (iii) only	
		(C)	(i) and (ii) only	(D)	(iii) only	
83.	Whic	eh sta	tement is/are true with the ATC-CNC r	nillin	g?	
	(i)	The	function of ATC is to change the tool qu	iickly	with the help of operator	
	(ii)		is used in CNC milling to improve the nachine.	produ	action and tool carrying capacity of	
	(iii)	ATC	s change tools rapidly reducing non pro	ducti	on time	
		(A)	(ii) and (iii) only	(B)	(i) and (ii) only	
		(C)	(i) only	(D)	(ii) only	
84.	Whic	ch sta	tement is true with CNC milling G code	es?		
	(i)	G20	refers matric co-ordinate positioning			
	(ii)	G20	refers inch co-ordinate positioning			
	(iii)	G41	refers 2D compensation left			
		(A)	(i) only	(B)	(i) and (ii) only	
		(C)	(ii) and (iii) only	(D)	(i) and (iii) only	

	(i)	M01 refers to optional program stop						
	(ii)	M05 refers to spindle stop						
	(iii)	iii) M09 refers to coolant off						
		(A)	(i) only	(B)	(ii) only			
		(C)	(i) and (iii) only	(D)	All of the above			
86.		Which statement is true with the programming line in CNC milling N100 G00X 150.0 $\mathbb{Z}_{200}$ O?						
	(i)	N indicates program number						
	(ii)	N indicates sequence number						
	(iii)	N indicates tool offset number						
	(iv)	N indicates tool number						
		(A)	(i) only	(B)	(ii) only			
		(C)	(iii) only	(D)	(iv) only			
87.	Whi	Which statement is/are true with the operational mode in CNC milling?						
	(i)	MDI mode is used for input of data manually						
	(ii)	Jog mode is used for move the tool manually						
	(iii)	Auto mode is used to edit the program.						
		(A)	(i) only	(B)	(ii) and (iii) only			
		(C)	(i) and (ii) only	(D)	(i) and (iii) only			
88.	Which of the following statement is/are correct about grinding wheel?							
	(i)	Aluminium oxide wheels are suitable for tough high tensile steels						
	(ii)	Silicon carbide wheels are used for grinding high speed steel						
	(iii)	Aluminium oxide wheels are suitable for grinding woods.						
	(iv)	Silicon carbide wheels are used for grinding mild steel.						
		(A)	Only (i)	(B)	Only (i) and (ii)			
		(C)	Only (iii)	(D)	Only (iv)			

85. Which statement is/are true with the M code in CNC milling?

89.	Which of the following statement is/are correct about grinding machines?						
	(i)	Cylindrical grinding machines are used for grinding round shafts					
	(ii)	Cylindrical grinding machines are used for grinding taper shafts					
	(iii)	Surface grinding machines are suitable for round surfaces					
		(A)	Only (i)	(B)	Only (i) and (ii)		
		(C)	Only (i) and (iii)	(D)	All of the above		
90.	_	Specification of a grinding wheel is given as C $10~P~5~V~BE$ . Which statement is/are not correct with this specification.					
	(i)	C stands for silicon carbide					
	(ii)	10 stands for fine grain size					
	(iii)	P stands for soft grade of bond					
		(A)	(i) only	(B)	(ii) and (iii) only		
		(C)	(ii) only	(D)	(iii) only		
91.	Twis	st dril	ls is blunt. It requires regrinding. Whic	ch stat	tement is/are correct?		
	(i)	Drills can be regrind on a tool and cutter grinder					
	(ii)	Drills can be regrind on a bench grinder					
	(iii)	Drills cannot be regrind on a bench grinder					
		(A)	Only (i)	(B)	Only (ii)		
		(C)	Only (i) and (ii)	(D)	Only (i) and (iii)		
92.	One of the main defect that seen on a grinding wheel is glazing. Which of the statement is/are correct in the case of glazing?						
	(i)	Glazing is caused by grinding a hard metal on a softer grade of bonded wheel.					
	(ii)	Glazing is caused by grinding a hard material on a hard grade bonded wheel					
	(iii)	Glazing is caused by grind a soft material on a soft graded bonded wheel					
		(A)	Only (ii)	Only (i) and (ii)			
		(C)	Only (i)	(D)	Only (ii) and (iii)		

93.		he wheel marking system is an important thing in the selection of a grinding wheel. Thich statement is/are true with the selection of grinding wheel.					
	(i)	For rough grinding HSS the suitable wheel is aluminium oxide					
	(ii)	For grinding HSS the suitable wheel is silicon carbide					
	(iii)	For grinding tungsten carbide the suitable wheel is silicon carbide					
		(A)	Only (i)	(B)	Only (i) and (iii)		
		(C)	Only (i) and (ii)	(D)	Only (ii)		
94.	4. Which statement is correct with the bench grinding machines work rest?				achines work rest?		
	(i) The minimum gap between the wheel and work rest is 2 mm						
	<ul><li>(ii) The maximum gap between the wheel and work rest is 2 mm</li><li>(iii) The minimum gap between the wheel and work rest is 20 mm</li></ul>						
		(A)	(i) only	(B)	(iii) only		
		(C)	(ii) only	(D)	(i) and (iii) only		
95.	Whic	ch of t	he statement is/are correct with the re	pair o	f damaged grinding wheel?		
	(i) Dressing of wheel is regains its sharpness						
	(ii)	Truing of wheel is regains its original shape					
	(iii)	Dressing is done after truing					
		(A)	Only (ii) and (iii)	(B)	Only (i) and (ii)		
		(C)	Only (i) and (iii)	(D)	All the above		
96.	<ul><li>96. Which of the statement is/are true with the cutting speed of a material?</li><li>(i) Cutting speed depends on material of cutting tool</li></ul>						
(ii) Cutting speed depends on the condition of the machine tool							
	(iii) Cutting speed depends on the size of the tool						
		(A)	Only (i)	(B)	Only (ii)		
		(C)	Only (i) and (ii)	(D)	Only (ii) and (iii)		
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97.	Which statement is/are true with the selection of a grinding wheel?						
	(i)	Vitrified bonded wheel doesn't affect on water, acid etc.					
	(ii)	Silicate bonded wheel suitable for large diameter wheels					
	(iii)	Organic bonded wheel is suitable for making thin cutoff wheels					
		(A)	Only (i)				
		(B)	Only (i) and (ii)				
		(C)	Only (ii) and (iii)				
		(D)	All of the above (i), (ii) and (iii)				
98.	Which statement is/are true with the tool off setting in CNC milling?						
	(i)	Tool offsetting is done in jog mode					
(ii) Tool offsetting is done in MDI mode							
	(iii)	(iii) Tool offsetting is done in edit mode					
		(A)	(i) only	(B)	(i) and (ii) only		
		(C)	(i) and (iii) only	(D)	(iii) only		
99.	Whic	eh sta	tement is/are true with the tool life in (	CNC r	milling?		
	(i)	Tool	life is the duration of actual cutting tir	ne aft	er which the tool no longer usable		
(ii) Tool life is the time interval between two consecutive resharpening					tive resharpening		
	(iii)	$T^n = C/V$ is the equation related with tool life					
		(A)	(i) only	(B)	(i) and (ii) only		
		(C)	(i) and (iii) only	(D)	(iii) only		
100.	Which statement is/are true with the productivity of CNC milling machine						
	(i)	Employing an excellent CAD/CAM software					
	(ii)	Using updated and well maintained machines					
	(iii)	Do not install a costly machine					
		(A)	(i) only	(B)	(i) and (ii) only		
		(C)	(ii) only	(D)	(iii) only		
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## SPACE FOR ROUGH WORK

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