100053

Total No. of questions: 100

Time: 75 Minutes

Maximum: 100 Marks

INSTRUCTIONS TO CANDIDATES

- The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
- The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.
- Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR answer sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

SEAL

108/2018

Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Which an	ong the following book was not a	authored by	Stephen Hawking :
	(A)	Silent Spring	(B)	A Brief History of Time
	(C)	The Theory of Everything	(D)	Black Holes : The Reith Lectures
2.	Name the	social reformer who propounded	the idea 'No	caste No Religion No God' :
	(A)	Dr. Palpu	(B)	Sree Narayana guru
	(C)	Kumaranasan	(D)	Sahodaran Ayyappan
3.	Who was	the viceroy of India when the Be	ngal was pa	rtitioned in 1905?
	(A)	Lord Lytton	(B)	Lord Dufferin
	(C)	Lord Curzon	(D)	Lord Rippon
4.	Who was	the Mugal emperor of India duri	ng the first v	war of Indian independence in 1857?
	(A)	Bahadur Shah I	(B)	Akbar II
	(C)	Bahadur Shah II	(D)	Shah Alam
5.	FIFA Wor	rld Cup 2022 will be held at :		
	(A)	Singapore	(B)	Qatar
	(C)	Paris	(D)	New York
6.	Who was	the author of the book 'Pracheen	a Malayalar	n'?
	(A)	Pandit Karuppan	(B)	Sri Narayana Guru
	(C)	Chattampi Swamikal	(D)	Kumara Guru
7.	The boun	dary line between India and Chi	na is Known	as:
	(A)	Radcliffe Line	(B)	McMahon Line
	(C)	38th Parallel	(D)	Maginot Line
8.	The natio	nal leader who was known as the	e father of In	dian Unrest:
	(A)	Bal Gangadhar Tilak	(B)	Gopal Krishna Gokhale
	(C)	W.C. Banerjee	The second second	Motilal Nehru
A			3	PTO

9.	Which riv	er in India is Known as Bengal's	s sorrow?	
	(A)	Mahanadi	(B)	Damodar
	(C)	Krishna	(D)	Narmada
10.	Royal Ind	lian Naval Mutiny was in :		
	(A)	1935	(B)	1939
	(C)	1942	(D)	1946
11.	Kasirang	a national park is situated in :		
	(A)	West Bengal	(B)	Sikkim
	(C)	Assam	(D)	Punjab
12.	The first	five year Plan was launched in t	he year :	
	(A)	1951	(B)	1962
	(C)	1956	(D)	1957
13.	Who was	the first secretary of SNDP yoga	m?	
	(A)	Dr. Palpu	(B)	N. Kumaranasan
	(C)	Mitavati Krishnan	(D)	C.V. Kunjuraman
14.	The Nair	Service Society was founded in t	he year :	
	(A)	1903	(B)	1907
	(C)	1909	(D)	1914
15.	Who was	the viceroy of India when Indian	National Co	ingress was formed in 1885?
	(A)	Lord Curzon	(B)	Lord Dufferin
	(C)	Lord Mayo	(D)	Lord Rippon
16.	Who was	known as 'Frontier Gandhi'?		
	(A)	Khan Abdul Ghaffer Khan	(B)	Bipin Chandra Pal
	(C)	Maulana Mohammed Ali	(D)	C. Rajagopalachari
17.	The carto	on character "Common Man" was	s created by	
	(A)	Cartoonist Sankar	(B)	Bal Thackeray
108/	(C)	R. K. Laxman	(D)	Abu Abraham
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113.	the mgar	usamun statted by vagunatananua.		
	(A)	Atma Vidya Sangham		
	(B)	Yogakshema Sabha		
	(C)	Arya Samaj		
	(D)	Prathyaksha Raksha Daiva Sabha		
19.	Who was	the author of the drama 'Adukkalayil n	innu	Arangathekku"?
	(A)	EMS	(B)	M.P. Bhattathiripad
	(C)	P. Kesava Dev	(D)	V.T. Bhattathiripad
20.	The Oscar	r Award for the best film (2018) is awar	ded t	o:
	(A)	Darkest Hour	(B)	Lady Bird
	(C)	Spot light	(D)	The Shape of Water
21.	The safety	y sign that shows what must be done is		
	(A)	Prohibition sign	(B)	Mandatory sign
	(C)	Warning sign	(D)	Informatory sign
22.	The shape	e of warning sign is :		
	(A)	Circular	(B)	Triangular
	· (C)	Square	(D)	Rectangular
23.	Isolating	fire from the supply of oxygen is called :		
	(A)	Starving	(B)	Smothering
	(C)	Cooling	(D)	Preventing
24.	CLASS-C	Fire is extinguished by using:		
		Dry powder	(B)	Foam
	(C)	Water jet	(D)	CTC
25.	The portion	on of the file that inserted in to the han	dle is	:
٠,	(A)	Side	(B)	Edge
	(C)	Heel	(D)	Tang
26.	For filing	wood, leather and other soft materials	the fi	le used is :
	(A)	Single cut	(B)	Double cut
	(C)	Rasp cut	(D)	Curved cut
A		5		

27.	For mark	cing lines parallel to the oute	ide edge	is used.
	(A)		(B)	
	(C)	Inside caliper	(D)	
28.	The point	t angle of punch used for mar	king witness m	arka is :
	(A)	30°	(B)	60°
	(C)	90°	(D)	120°
29.	1	tap is used for fini	sh threads in a	blind hole
	(A)	Taper tap	(B)	Intermediate tap
	(C)	Second tap	(D)	Plug tap
30.	The least	count of a Vernier Caliper (M	Metric) is ———	mm.
	(A)	0.5		0.55
	(C)	0.002		0.02
31.	In a forge	shop — are	used for holdin	g round rods horizontally.
	(A)	Round tongs	(B)	Square tongs
	(C)	Hollow tongs	(D)	Flat tongs
32.		used for enlarging	a previously dri	lled hole in forge shop.
	(A)	Drift	(B)	Punch
	(C)	Drill	(D)	Тар
33.	Select the	cutting tool material which h	nas a hot hardne	ess temperature above 1000° C :
	(A)	Ceramic	. (B)	HSS
	(C)	Stellite	(D)	HCS
34.	Bronze is	an alloy of :		
	(A)	Copper and Zinc	(B)	Zinc and Tin
	(C)	Tin and phosphorous	(D)	Copper and Tin
35.	The Upper	Critical Temperature of Eut	ectoid steel is -	e.
	(A)	910°	(B)	1023°
	(C)	723°	(D)	850°
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36.	The heat	treatment process used for softe	en the steel a	nd increase machinability is:
	(A)	Anealing	(B)	Tempering
	(C)	Hardening	(D)	Normalising
37.	The surfa	ce roughness value (Ra value) o	f grade N1 in	microns is :
	(A)	50	(B)	1.6
	(C)	0.1	(D)	0.025
38.	The algeb	raic difference between a size a	nd its corresp	oonding basic size is called :
	(A)	Limit	(B)	Fit
	(C)	Deviation	(D)	Tolerance
39.	The tolera	ance size 25 H7 represents :		
	(A)	Hole with basic size 25 mm	(B)	Hole with basic size 7 mm
	(C)	Shaft with basic size 25 mm	(D)	Shaft with basic size 7 mm
10.	The bond	in the grinding wheel used for	dressing cast	ings:
	(A)	Vitrified bond	(B)	Shellac bond
	, (C)	Rubber bond	(D)	Resinoid bond
41.		rasive grains wear away rapidly tion of the wheel is called?	than the bor	nd and produces glassy like appearance
	. (A)	Glazing	(B)	Loading
	(C)	Truing	(D)	Dressing
42.	In the gri	nding wheel specification 51-A-	46-H-5-V-8 tl	ne abrasive grain size is :
	(A)	Coarse	(B)	Medium
	(C)	Fine	(D)	Very fine
43.	The grind	ling wheel used for Gashing mil	ling cutter te	eth is:
	(A)	Straight cup type	(B)	Flaring cup type
	(C)	Dish type	(D)	Saucer type
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44	. The dep	th of cut in a cylindrica s slide :	l grinder is given by	moving mounted in
	(A)	Head stock	(B)	Wheel head
	(C)	Foot stock	(D)	
45.	The poin	t angle of a HSS twist d	rill for drilling Mild	Steel is:
	(A)) 181
	(C)	108) 188
46.	The size	of a taper shank twist d	rill is 27 mm. The M	oarse taper No. of drill shank is :
	(A)	MT1	(B)	
	(C)	MT3	(D)	MT4
47.	In the dri	ll designation "twist dri	ll 9.5-H-IS5101-HS"	'H' represents :
	(A)	tool type	(B)	tool material
	(C)	tool diameter	(D)	tool number
48.	Cutting s	peed of HSS drill for dril	lling M.S. Flat is	m/min.
	(A)	70 – 100	(B)	35 – 50
	(C)	20 – 30	(D)	5 – 8
49.	The opera	tion of enlarging a hole	to a given depth to	house head of socket heads and Cap
	(A)	Counter sinking	(B)	Counter boring
	(C)	Spot facing	(D)	Reaming
50.	CNC stand	ls for :		
	(A)	Computer Number Con	trol (B)	Compiler Number Control
	(C)	Compiler Numeric Cont	crol (D)	Computer Numeric Control
51.	The term r	efers to the pulse per sec	ond in CNC machine	e is:
		Pulse ratio		Pulse frequency
	(C)	Pulse width		Pulse concentration
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52.	The programme code for Absolute co-ordinate system is:					
	(A)	G00	(B)	G01		
	(C)	G90	(D)	G91		
53.	Gears wi	th internal teeths used in automobile	s is:			
	(A)	Bevel gears	(B)	Hypoid gears		
	(C)	Worm gears	(D)	Annular gears		
54.	The outer	edge of the teeths of a gear bounds a	circle o	called:		
	(A)	Addendum circle	(B)	Dedundum circle		
	(C)	Base circle	(D)	Root circle		
55.	The ratio	of number teeth to pitch diameter in	inches	is called :		
	(A)	Diametral pitch	(B)	Circular pitch		
	(C)	Linear pitch	(D)	Normal pitch		
56.	The heigh	it of teeth equal to the sum of Addenc	lum and	d Dedundum is called :		
	(A)	Working depth	(B)	Whole depth		
	- (C)	Pitch	(D)	Lead		
57.	Name the	part of a Shaper which help to lift th	e tool in	n return stroke.		
	(A)	Saddle	(B)	Clapper box		
	(C)	Ram	(D)	Bull gear		
58.	Name the	part of Shaper which carries the tool	head a	nd reciprocates while machining.		
	(A)	Pawl	(B)	Ratchet wheel		
	(C)	Bull gear	(D)	Ram		
59.	The quick	return mechanism provided in Shape	er to:			
	(A)	Increase cutting time				
	(B)	Reduce cutting stroke time				
	(C)	Increase Idle time in return stroke				
Λ	(D)	Minimise Idle time in return stroke		108/20	118	
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60. When the distance between the center of t	he Bull gear to sliding block of slotted link
60. When the distance section of the Shaper increases then the stroke length of the Shaper	(B) increases
(A) decreases	
(C) first increases then decreases	(D) unaltered
61. Which is not a cause of stroke length change of	luring working of Shaper?
61. Which is not a cause of stroke length	(B) leadscrew wear
(A) bevel gear shaft tight	(D) too loose driving pin
(C) breakage of driving pin	
62. In the Automatic feed mechanism of Shaper	the direction of feed can be change by turning
the by 180°.	(B) Ratchet wheel
(A) Pawl	a total
(C) Feed screw	(D) Crank wheel
63. The shape of a Slotter table is:	
(A) Square	(B) Rectangular
(C) Round	(D) Box
64. The Slotter used for precision work is:	(B) Production slotter
(A) Puncher elotter	
(C) Tool room slotter	
t also	direction.
65. In a Slotter the Ram reciprocates in the —	(B) Horizontal
(A) Vertical	(D) Rotary
(C) Angular	
. D - food machanism of Slotter th	the feed rate is varied by changing the position of:
	(B) Ratchet wheel
(A) Pawl	(D) Roller
(C) Crank pin	
67. The end clearance angle of a slotter partic	ng tool is:
(A) 20°	(b) 10
(C) 2°	(D) 10°
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68.	In a Plane	er metal cutting take place by the	reciprocation	on of:
	(A)	Table	(B)	Tool head
	(C)	Cross rail	(D)	Counter shaft
69.	In a Plane	er, tool is fitted in the :		
	(A)	Table	(B)	Bed
	(C)	Tool head	(D)	Column
70.		type of planer work setting time g on the other table:	saved by	clamping workpiece at one table while
	(A)	Pit planer	(B)	Doublehousing planer
	(C)	Open side planer	(D)	Divided table planer
71.		versible motor driving mechanism or DC Generator:	n of planer	supplies the field
	(A)	Exciter	(B)	AC Motor
	(C)	DC Motor	(D)	Reversing switch
72.	The purp	ose of T-Slots in the feed disc of P	laner is to s	et the amount of :
	(A)	Speed	(B)	Feed
	(C)	Depth of cut	(D)	Angle of cut
73.	In — work tabl		ne position	of the spindle is perpendicular to the
	(A)	Plane milling machine	(B)	Universal milling machine
	(C)	Vertical milling machine	(D)	Horizontal milling machine
74.	The part	of plane milling machine houses t	he speed m	echanism of table and feed motor :
	(A)	base	(B)	column
	(C)	spindle	(D)	knee
75.	Collet ch	uck or adaptor is used for holding	these type	of cutters.
	(A)	Arbor type milling cutters	(B)	Shank type milling cutters
	(C)	Facing type milling cutters	(D)	Convex milling cutters

	W	g cutter used for producing con	vex surface at	the corner or e	edge of a work pie	ce is .
76. 1		Convex milling cutter	(B).	Concave millin	ig cutter	
	(A) (C)	Corner rounding cutter	(D)	Sprocket milli	ng cutter	
7	The millin	g cutters having teeth on perip	hery and side	8:		
77. 1	(A)	Side and face milling cutter	(B)	Face milling c	utter	
	(C)	Plane milling cutter	(D)	Gear cutter		
78. 1	In a millir	ng cutter the round portion for	the chip space	between adjac	ent teeth is called	1:
10.		Land	(B)	Gash		
	(C)	Fillet	(D)	Heel		
79.	The size o	of a milling cutter is $150 \times 6 \times 2$	7 mm. What	pe of cutter is	this?	
	(A)		(B)	Equal angle c	utter	
	(C)	Slitting saw cutter	(D)	Slab milling o	eutter	
80.	In	milling the work is fe-	d against the	irection of rota	ation of cutter:	
80.	(A)	Climb milling		Up milling		
	(C)	Down milling	(D)	Face milling		
81.	(C)	Down milling e milling operation in which se of cutters mounted on the arbon	everal surface	of work simul		gainst a
81.	(C)	e milling operation in which se of cutters mounted on the arbor	everal surface	of work simul		gainst a
81.	(C) Select th number (e milling operation in which se of cutters mounted on the arbor Plane milling	everal surface	of work simul		gainst a
81.	(C) Select th number (A) (C)	e milling operation in which se of cutters mounted on the arbor Plane milling	everal surface (B)	of work simul Face milling Gang milling	4	
	(C) Select th number (A) (C) Machini	e milling operation in which so of cutters mounted on the arbor Plane milling Side milling ng Convex and concave su milling.	everal surface (B)	of work simul Face milling Gang milling	are some exan	
	(C) Select th number (A) (C)	e milling operation in which see of cutters mounted on the arboral Plane milling Side milling ng Convex and concave sumilling. Form milling	veral surface (B) (D)	of work simul Face milling Gang milling ear cutting	are some exan	
	(C) Select th number (A) (C) Machini (A) (C)	e milling operation in which see of cutters mounted on the arboral Plane milling Side milling Ing Convex and concave sumilling. Form milling Face milling Fraction of machining a vertical	(B) (C) rfaces and (B) (D)	of work simul Face milling Gang milling ear cutting Key way mil End milling	are some exan	aples of
82.	(C) Select th number (A) (C) Machini (A) (C) The opecutter is	e milling operation in which see of cutters mounted on the arbord Plane milling Side milling Ing Convex and concave sumilling. Form milling Face milling Face milling Face milling	(B) (C) rfaces and (R) (D) surface on t	of work simul Face milling Gang milling ear cutting Key way mil End milling e side of work Face milling	are some examiling	aples of
82.	(C) Select th number (A) (C) Machini (A) (C) The opecutter is	e milling operation in which see of cutters mounted on the arboral Plane milling Side milling Ing Convex and concave sumilling Form milling Face milling	(B) (C) rfaces and (R) (D) surface on t	of work simul Face milling Gang milling ear cutting Key way mil End milling	are some examiling	aples of
82.	Select the number of (A) (C) Machini (A) (C) The oper cutter is (A) (C)	e milling operation in which see of cutters mounted on the arboral Plane milling Side milling Ing Convex and concave sumilling Form milling Face milling	(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	of work simulation of work simulations of work simulations and simulations of work side of work of the side of the	are some examiling	aples of
82.	(C) Select th number (A) (C) Machini (A) (C) The opecutter is (A) (C) In rack	e milling operation in which see of cutters mounted on the arbord Plane milling Side milling Ing Convex and concave sumilling. Form milling Face milling Face milling Facalled: Plane milling Gang milling milling fee	(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	of work simulation of work simulation of work simulation of work simulation of work way mile and milling a side of work of the work part of the work part of work	are some examiling a side	aples of
82.	(C) Select th number (A) (C) Machini (A) (C) The opecutter is (A) (C) In rack	e milling operation in which see of cutters mounted on the arbord Plane milling Side milling Ing Convex and concave sumilling. Form milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling Face milling	(B) (C) rfaces and (B) (C) surface on t (B) (C) d is used to m	of work simulation of work simulation of work simulation of work simulation of work was a side of work of the work	are some examiling a side	aples of

or.	If 'm' is the	module then Linear pitch of a r	ack is obtain	ned by the formulae:	
80.		π/m	(B)	лт	
	(C)		(D)	/an/2	
86.	In indexing	mechanism — time the crank has to be turned	— eliminates	s the need for counting the num	iber of
		Index plate	(B)	Worm shaft	
	A 100 A	Index crank	(D)	Sector arm	
87.	The second of		s given in m	m then rpm calculated by the fe	ormula
	(A)	nd/1000	(B)		
	(C)	m/1000	(D)	πdn/1000	
88.	The chuck	is situated in the	— part of th		
	(A)	Head stock	(B)	Carriage	
	(C)	Tailstock	(D)	Bed	
89.	The topsli	ide in a lathe is swiveled at a	ngle and fee	ed in taper	turning
	(A)	Tailstock offset		Form tool	
	(C)	Compound rest swivelling	(D)	Taper turning attachment	
90.	The part	of Lathe which slides over the b	ed on which	compound rest is fitted:	
00.	(A)	Tailstock	(B)	Follower rest	
	(C)		(D)	Saddle	
91	Four jaw	chuck is also called:			
		Self centering chuck	(B)) Universal chuck	
	(C)	and the stands	(D) Collet chuck	
0.0	To subject	Lathe operation burrs and sha	rp edges are	removed from turned componen	its:
92			(B) Centering	
	(A)	totals Paul (1)	(D) Chamfering	
	(C)	THIERmie			
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93.	The body	and base of the Lathe Tailstock	is made out o	f:
	(A)	Castiron	(B)	Wrought iron
	(C)	Pig iron	(D)	Carbon steel
94.	In which i	nethod threads are produced w	vithout metal o	cutting and chip removal.
	(A)	thread milling	(B)	thread rolling
	(C)	thread grinding	(D)	thread taping
95.	Which is t	he Lathe operation in which e	xisting hole is	enlarged?
	(A)	boring	(B)	tapping
	(C)	drilling	(D)	counter sinking
96.	The Lathe	tailstock spindle is provided	with	standard taper.
	(A)	B.S. Taper	(B)	Metric taper
	(C)	Moarse taper	(D)	Jerno taper
97.	The amou	int of taper of a Standard pin t	aper (British)	is:
	(A)	2/3 "TPF	(B)	1/2 "TPF
	(C)	1/4 "TPF	(D)	1/3 "TPF
98.	This lath	e center has minimum wear	and tear pa	rticularly suitable for tailstock offset
	(A)	Ball center	(B)	Tipped center
	(C)	Half center	(D)	Pipe center
99.	The Brow	n and Sharp self holding taper	BS18 has a ta	aper equal to:
	(A)	2/3 "TPF	(B)	1/2 "TPF
	(C)	1/4 "TPF	(D)	1/3 "TPF
100	. For finish	h Facing depth of cut is not mo	ore than 0.1mr	n and feed rate ismm
	(A)	0.5	(B)	0.05
	(C)	0.1	(D)	0.01
	THE RELL	TO SELECT THE PERSON OF THE PE		