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Question Booklet Alpha Code

A	

Question Booklet Serial Number

Total Number of Questions: 100	Time: 75 Minutes
Maximum Marks: 100	

- 1. 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**.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. 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.
- 5. 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.
- 6. 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.
- 9. 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.
- 13. 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.



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1.	"Per	inad lahala" is also kno	own as :								
	(A)	Kunnam kulam sama	ram	(B)	Kall	umala samarar	n				
	(C)	Pidiyari samara		(D)	Paliy	yam samaram					
2.		famous work which gre set up an ashram at Jo	•		Gandh	iji and develop	the con	cept of joint family			
	(A)	The Kingdom of God	is Within Yo	ou							
	(B)	Anna Karenina									
	(C)	War and Peace									
	(D)	Resurrection									
3.	'Sub	arayan' is the original 1	name of :								
	(A) Ayya Vaikundar				Shivayogi						
	(C)	(C) Sree Narayana Guru		(D)	Thy	caud Ayya					
4.	Artio	cle 25 to 28 of the India	n Constituti	ion gi	ve co	ncrete shape to	:				
	(A)	Federalism (B)	Secularism	l	(C)	Sovereignty	(D)	Democracy			
5.	The	new chairman of Intern	national Fer	tilizeı	Asso	ociation (IFA) :					
	(A)	CJ Dawson (B)	Vinodh Bh	ut	(C)	Medha Patka	r (D)	Rakesh Kapoor			
6.	The	social reformer who re	lated to Nec	duma	ngad	Chandha Laha	la ?				
	(A)	Ayyankali		(B)	Saho	odaran Ayyapı	oan				
	(C)	C.V. Kunjuraman		(D)	Swa	mi Ananda Th	eerthan				
7.	Diwa	an of Tiruvithamkur du	ring the tim	e of e	exile o	f Swedheshabh	imani R	amakrishna Pillai :			
	(A)	Velu Tampi		(B)	C. R	ajagopalachari					
	(C)	Paliyathachan		(D)	C.P.	Ramaswami					
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8.	The	author of "Advaita chintha padha	thi":	
	(A)	Dr. Ayyathan Gopalan	(B)	G.P. Pillai
	(C)	Chattampi Swamikal	(D)	V.T. Bhattathiripad
9.		social reformer in Kerala who we re the nation achieved freedom ?	anted	the freedom of opreesed class to be attained
	(A)	C. Krishnan	(B)	K.P. Keshavamenon
	(C)	T.K. Madhavan	(D)	K. Kelappan
10.	The	new secretary of the Central Board	d of S	econdary Education :
	(A)	Nilam Gupta	(B)	Himanta Sarma
	(C)	Anurag Tripathy	(D)	Krishna Mourya
11.	The	Directive Principles of State Policy	conta	uined in :
	(A)	Part 3 rd of Indian Constitution	(B)	Part 4 th of Indian Constitution
	(C)	Part 5 th of Indian Constitution	(D)	Part 6 th of Indian Constitution
12.	The	person who called Kumaran Asha	n as	"Viplavathinte Sukranakshatharam" ?
	(A)	P.P. Raveendran	(B)	Kesari Balakrishnapillai
	(C)	Gopalakrishnan P.K.	(D)	Joseph Mundassery
13.	The	Tamil leader who participated in V	/aikko	om satyagraha from beginning to end ?
	(A)	E.V. Ramaswami Naikker	(B)	Veerasalingam
	(C)	Subramanya Iyer	(D)	Parmeswara Iyer
14.	"Pac	ccha Malayalam" the literary move	ment	is related to :
	(A)	Kerala Varma Valiya Koyi Tham	ppura	an
	(B)	Kodungallur Kunhikuttan Tham	ppura	nn
	(C)	Kumaran Ashan		
	(D)	Kesav Dev		

15. Dhola-Sadiya, India's longest river bridge constructed across the river :								
	(A)	Godavari	(B)	Ganga	(C)	Yamuna	(D)	Brahmaputhra
16 .	Whi	ch city is the wor	ld's n	nost densily popu	ılated	city according	to UN H	labitat Data :
	(A)	Dhaka	(B)	Mumbai	(C)	Kolkata	(D)	Lagos
17.	The	first country in th	ne wo	rld to band metal	minii	ng in nation wi	de :	
	(A)	Haiti	(B)	El Salvador	(C)	Peru	(D)	Brazil
18.	_	oer Indian Consti I not be less than		the number of M	⁄liniste	ers including th	e Chief	Minister in a State
	(A)	14	(B)	15	(C)	12	(D)	11
19.	The	person who relat	ed to	Thali Kshethra S	amara	ım ?		
	(A)	K.P. Kesava Me	enon	(B)	Jaya	prakash Naray	an	
	(C)	K. Kelappan		(D)	T.K.	Madhavan		
20.	Whi	ch cricket team h	as wo	on the 2017 Deod	har Tı	rophy?		
	(A)	Maharashtra	(B)	Tamil Nadu	(C)	Kerala	(D)	Goa
21.	War	ning signs are		in shapes wi	th bla	ck sign and bla	ck borde	er.
	(A)	Square	(B)	Round	(C)	Rectangle	(D)	Triangle
22.	The	factors in a fire t	riang	le are Oxygen, he	eat an	d		
	(A)	Water		(B)	Fuel			
	(C)	Both (A) and (B	3)	(D)	Non	e of these		
23.	WW	W is developed b	by:					
	(A)	Tim Berners-Lee	e	(B)	Cha	rles Babbage		
	(C)	Thomas Alva E	dison	(D)	Fara	iday		

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24.		signs inc	licate 1	necessity of	shown in signs and are in circular shapes.						
	(A)	Information signs (Proh	Prohibition signs				
	(C)	Mandatory sig	ns		(D)	Non	e of these				
25.	List	of Luminous int	ensity	is S.I. Syste	ems is						
	(A)	Ampere	(B)	Candela		(C)	Volt	(D)	Ohm		
26.	Outs	side micrometer	is also	known as	3						
	(A)	Plug gauge	(B)	Feeler ga	uge	(C)	Screw gauge	(D)	Vernier Caliper		
27.	Forn	nula for finding	least c	ount of ver	lliper is :						
	(A)	1 MSD - 1 VSI)		(B)	1 mi	n - least count				
	(C)	1 cm - 1 mm			(D)	Non	e of these				
28.	For s	squaring small h	oles w	hich chisel	is used	1:					
	(A)	Firmer chisel			(B)	Diar	nond point chis	sel			
	(C)	Cross cut chise	e1		(D)	All o	of the above				
29.	The	length of a file f	rom po	oint to:							
	(A)	Tip	(B)	Tang		(C)	Face	(D)	Heel		
30.	Usua	ally files are mad	de up o	of:							
	(A)	High grade ste	el		(B)	Higl	n speed steel				
	(C)	Low carbon sto	eel		(D)	Milc	l steel				
31.		cut files	are us	ed for soft	metal.						
	(A)	Smooth	(B)	Second c	ut	(C)	Rough	(D)	Super smooth		
32.	The	number of cuts	over a	length of 1	0 mm	for a b	pastard file of 3	00 mm i	s:		
	(A)	4	(B)	11		(C)	13	(D)	9		
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<i>33</i> .	For 1	narder metais, exc	cellen	t file for go	oa fini	sn for	many pieces of	ritting	work is:
	(A)	Second cut	(B)	Rough		(C)	Smooth	(D)	Dead Smooth
34.	Filin	g narrow slots, n	otche	s and groov	ves		files is used.		
	(A)	Triangular file	(B)	Knife edg	ge file	(C)	Half round file	e (D)	Flat file
35.	Cuts	of files are divid	ded in	to	g	roups			
	(A)	Two	(B)	Three		(C)	Three	(D)	Four
36.	Files	are classified an	d nan	ned accordi	ng to t	three	principal factors	:	
	(A)	Size			(B)	Shaj	pe		
	(C)	Both (A) and (B	3)		(D)	Non	e of these		
37.	For	making thread or	n hole		_ is us	sed.			
	(A)	Broach			(B)	Die	and die stock		
	(C)	Centre drill			(D)	Тар	and tap wrench	n	
38.	The	length of a hacks	saw b	lade is usu	ally				
	(A)	200 mm	(B)	300 mm		(C)	350 mm	(D)	300 cm
39.	For	measuring the pi	tch of	thread		is ı	ısed.		
	(A)	Feeler gauge			(B)	Stan	dard wire gaug	je	
	(C)	Limit gauge			(D)	Scre	w pitch gauge		
40.	Che	cking the clearan	ce bet	ween two	mating	g part	s, is	used.	
	(A)	Feeler gauge			(B)	Rad	ius gauge		
	(C)	Standard wire §	gauge		(D)	Pres	sure gauge		
41.	A	is used	to rei	move little	metal i	from 1	the hole and to l	oring it	to the correct size.
	(A)	Scriber			(B)	Тар			
	(C)	Combination ce	ntre c	lrill	(D)	Rear	mer		
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42.	Engi	ineer's parallel jav	arallel jaw bench vice is also called:						
	(A)	Bench vice	(B)	Pipe vice		(C)	Pin vice	(D)	Lag vice
43.	For 1	holding round se	ction	metal, tubes	s, pipe	es, etc.	vic	e is use	ed.
	(A)	Bench vice	(B)	Pipe vice		(C)	Leg vice	(D)	None of these
44.	Meta	al which contain	iron a	as base are o	called				
	(A)	Ferrous metal			(B)	Non	-ferrous metal		
	(C)	Both (A) and (B	5)		(D)	Non	e of these		
45.	The	purest form of Iro	on is :						
	(A)	Cast iron	(B)	Pig iron		(C)	Mild steel	(D)	Wrought iron
46.	Steel	l is an alloy of _		and		·			
	(A)	Copper and iron	n		(B)	Iron	and carbon		
	(C)	Carbon and tin			(D)	Man	ganese and sul	phur	
4 7.	The	process of reduct	ion of	iron ore to	pig ir	on is o	called :		
	(A)	Cyaniding	(B)	Hardening	5	(C)	Forging	(D)	Smelting
48.	The	product of blast f	furnac	ce is :					
	(A)	Cast iron	(B)	Gray iron		(C)	Pig iron	(D)	Alloy steel
49.	In g	rey cast iron carb	on co	ontained in t	the for	rm of	·		
	(A)	Spheroidal	(B)	Nodules		(C)	Iron carbide	(D)	Graphite flakes
50.	The	flux used in cupo	ola fui	rnace is :					
	(A)	Charcoal	(B)	Lime stone	e	(C)	Coke	(D)	Borax
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51.	Cast	iron alloyed wit	h 10%	become non-magnetic called no-mag.					
	(A)	2% Cobalt	(B)	3% Aluminui	m	(C)	6% Chromium	(D)	6% Manganese
52.	The	ore of lead is		·					
	(A)	Galena	(B)	Copper pyrite	es	(C)	Bauxite	(D)	Calamine
53.	Gun	metal contains		% tin,			% Cu and 2% Zi	inc.	
	(A)	12 and 90	(B)	10 and 88		(C)	8 and 80	(D)	11 and 90
54.	Bell	metal contains _		% tin and	res	t cop	per.		
	(A)	30	(B)	20		(C)	25	(D)	35
55.	The	alloy of copper a	nd tin	is called :					
	(A)	Brass	(B)	Gun metal		(C)	Babbitt metal	(D)	Bronze
56.	The	alloy of	w	ith	is	called	l nichrome.		
	(A)	Nickel, Chromit	um	(B	3)	Tung	gsten, iron		
	(C)	Copper, Alumii	num	([))	Coba	alt, copper		
57.		is the hea	viest	of common me	etal	s.			
	(A)	Tin	(B)	Aluminum		(C)	Copper	(D)	Lead
58.	The	melting point of	zinc is	::					
	(A)	210°C	(B)	419°C		(C)	300°C	(D)	280°C
59.	The	term 18/8 refers	to:						
	(A)	18% Ni and 8%	Chro	mium (B	3)	18%	vanadium and 8	% tun	gsten
	(C)	18% copper and	18% s	sulphur (D))	18%	Lead and 8% tin		
60.	The	specific gravity o	f Alur	ninum is :					
	(A)	1.72	(B)	3.16		(C)	2.98	(D)	2.65
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61.	Allo	y steels are usua	ally qu	enched in	•			
	(A)	Oil	(B)	Water	(C)	Lime	(D)	Ash
62.	In n	ormalizing, cooli	ng is o	done in :				
	(A)	Lime	(B)	Air	(C)	Ash	(D)	Water
63.	Тар	drill size is deter	rmined	l by the formulae	e:			
	(A)	Outside diame	ter –	Inside diameter				
	(B)	Outside diame	ter –	2 depth				
	(C)	Outside diame	ter –	Pitch				
	(D)	None of these						
64.	An o	oxidizing flame	is one	in which there is	s an ex	cess of	·	
	(A)	Hydrogen	(B)	Oxygen	(C)	Nitrogen	(D)	Carbon dioxide
65.	By c		mr	n thickness can be				
	(A)	30 mm	(B)	25 mm	(C)	40 mm	(D)	50 mm
66.	In fo	orward gas weldi	ing the	e blow pipe is hel	ld at an	angle of	to	the plane of weld.
	(A)	40° - 45°	(B)	60° - 70°	(C)	50° - 60°	(D)	70° - 80°
67.	Oxy	gen cylinders ar	e charg	ged with a pressi	ure of a	about :		
	(A)	164 kgf/cm ²	(B)	122 kgf/cm ²	(C)	135 kgf/cm ²	(D)	154 kgf/cm ²
68.	Usua	ally acetylene cy	linder	hoses are	i	n colour.		
	(A)	Black	(B)	Maroon	(C)	Blue	(D)	Yellow
69.	Galv	vanized iron mea	ans coa	ating of	on	iron.		
	(A)	Tin	(B)	Nickel	(C)	Zinc	(D)	Lead
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70.	The	special stake use	a for r	iveting is:					
	(A)	Bevel edge stak	e		(B)	Dou	ble seaming stak	e	
	(C)	Beak horn stake	e		(D)	Squa	are stake		
71.	Circ	les and arcs beyo	nd the	e limit of div	viders	:			
	(A)	Trammel points	5		(B)	Rop	e and nail		
	(C)	Spring dividers			(D)	Ord	inary dividers		
72.	The	ingredients of so	lders a	are :					
	(A)	Lead and copp	er		(B)	Leac	l and tin		
	(C)	Tin and copper	,		(D)	Zinc	and lead		
73.	In so	oldering the flux	used i	s :					
	(A)	Salamonia			(B)	Bora	ıx		
	(C)	Copper sulpha	te		(D)	All o	of the above		
74.	Tole	rance is the diffe	rence	between ma	aximu	m lim	nit of size and		size.
	(A)	Minimum limit			(B)	Basi	С		
	(C)	Upper deviatio	n		(D)	Low	er deviation		
75.	The	measured size is	knov	vn as	•				
	(A)	Nominal size	(B)	Basic size		(C)	Actual size	(D)	Minimum limit
76.		algebraic differe is called		etween actu	al size	e (ma:	ximum etc.) and	the co	orresponding basic
	(A)	Tolerance	(B)	Basic size		(C)	Nominal size	(D)	Deviation
77.	In a	push fit one can	be ass	sembled into	the o	other v	with :		
	(A)	A medium pres			(B)		t hand pressure		
	(C)	No pressure			(D)	Ü	of the above		

78.	The fundamental deviation symbol 'H' represents :										
	(A)	Hole		(B)	Shaf	t					
	(C)	Both (A) and (B)		(D)	Non	e of these					
79.	Acm	e thread has an incl	ıded angle of	: :							
	(A)	39° (B) 29°		(C)	27°	(D)	37°			
80.	For o	cutting thread on a la	athe gear ratio	o can l	be cal	culated by :					
	(A)	$\frac{DR}{DN} = \frac{Pitch to}{Pitch of the}$	be cut lead screw	(B)	$\frac{DR}{DN}$	$= \frac{\text{Pitch of the le}}{\text{Pitch to b}}$	ead scr oe cut	<u>rew</u>			
	(C)	Both (A) and (B)		(D)	Non	e of these					
81.	In gun breeches which thread is used ?										
	(A)	Butters threads (B) Acme thr	ead	(C)	Square thread	(D)	Worm thread			
82.	For g	general purpose saw	ing a	bl	lade w	vill be used.					
	(A)	18 pitch (B) 10 pitch		(C)	15 pitch	(D)	All of these			
83.	The	rotary motion in a p	ower backsaw	v macł	nine is	converted into l	inear 1	motion by :			
	(A)	Chain drive		(B)	Gear	drive					
	(C)	Crank mechanism		(D)	Slott	ed lever mechan	ism				
84.	Whi	le machine reaming	the work is r	evolve	ed at _	·					
	(A)	High speed		(B)	Very	slow speed					
	(C)	Medium speed		(D)	Non	e of these					
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85	caliper	has	a	turn	leg.
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(A) Inside

(B) Outside

(C) Jennifer Caliper

(D) None of these

- (A) 100°
- (B) 180°
- (C) 120°
- (D) -40°

- (A) Roller gauge
- (B) Ring gauge
- (C) Screw gauge
- (D) Slip gauge

- (A) Dial
- (B) Disc
- (C) Scale
- (D) Vernier

- (A) Grid
- (B) Structure
- (C) Grit
- (D) Bond

(A) Structure

(B) Type of abrasive

(C) Type of bond

(D) Grid

91. Surface speed of grinding wheel is find out by the formulae :

(A) $\frac{DN}{1000}$ m/sec

(B) $\frac{\text{Pitch of screw}}{\text{Pitch to be cut}}$

(C) Both (A) and (B)

(D) $\frac{\pi DX \text{ rpm}}{1000}$

92. Some is given while making edges and seams.									
	(A)	Cutting	(B)	Folding		(C)	Measuring	(D)	Allowance
93.		bend prepared kness of metal.	l by fold	ling machii	ne the	radiu	s of internal an	gle is _	times of
	(A)	2	(B)	3.5		(C)	1.5	(D)	2.5
94.	Thic	kness of rubber	r wheel i	is:					
	(A)	0.08 mm	(B)	0.03 mm		(C)	0.07 mm	(D)	1 cm
95.	Grac	le of silicon car	bide is :						
	(A)	Soft			(B)	Hard	i		
	(C)	(A) and (B)			(D)	Very	hard and britt	le	
96.	Coni	ical clutch is a	:						
	(A)	Dog clutch			(B)	Mate	ch plate clutch		
	(C)	Friction clutch	h		(D)	All	of the above		
97.	'V' l	oelts are classif	ied in _	(classes.				
	(A)	6	(B)	3		(C)	4	(D)	5
98.	In method, the lubricant given to machine by drops.								
	(A)	Splash			(B)	Grav	rity feed		
	(C)	Force pressur	e		(D)	Ring	oiling		
99.	Lard	oil is a	lu	bricant.					
	(A)	Liquid	(B)	Solid		(C)	Semi solid	(D)	All of the above
100.	'II' t	his symbol ind	icates wl	hich type o	f weld	?			
	(A)	Seam weld	(B)	Spot weld	1	(C)	Fillet weld	(D)	Square butt weld
					- o O	o -			

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK