## 127/2017

Question Booklet Alpha Code

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Question Booklet

Alpha Code	Serial Number	
<b>Total Number of Questions: 100</b>		Time: 75 Minutes
Maxin	mum Marks: 100	

## INSTRUCTIONS TO CANDIDATES

- 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.	Mad	lhav Gadgil Comi	mittee	recommend	ded E	cologi	cally Sensitive	Area in	Western ghats as	:
	(A)	64%	(B)	36%		(C)	37%	(D)	62%	
2.		ch Article of Incumstances ?	dian	Constitutio	n allo	ows t	o proclaim fin	ancial (	emergency unde	r
	(A)	Article 352	(B)	Article 35	6	(C)	Article 360	(D)	Article 362	
3.	The	very first meeting	g of In	dia's Consti	ituent	Asser	nbly was presid	ded ove	r by :	
	(A)	B.R. Ambedkar			(B)	Sach	idananda Sinh	ıa		
	(C)	S.K. Patil			(D)	Raje	ndra Prasad			
4.	The aspe		ntary	democracy	close	ly up	holds more wl	nich am	ong the followin	g
	(A)	Supremacy of the	he Pai	rliament						
	(B)	Supremacy of the	ne Pre	sident						
	(C)	Supremacy of the	ne Ele	ction Comm	nissior	ı				
	(D)	Supremacy of the	he Co	nstitution						
5.	POC	SO Act meant :								
	(A)	Prohibition of C	Childre	en from Sex	ual O	ffence	s			
	(B)	Prohibition of C	Crimin	al Sexual O	ffence	es				
	(C)	Protection of Ch	nildrei	n from Sexu	ıal Off	fences				
	(D)	Prevention of C	rimin	als from Sex	c Offer	nces				
6.	Kutt	amkulam Sathyaş	graha	is associate	d with	n the j	oremises of the	Temple	of:	
	(A)	Thiruvallam Te	mple		(B)	Vaik	om Temple			
	(C)	Kudalmanikam	Temp	ole	(D)	Gur	avayoor Templ	e		
7.	The	book "Bilathivish	eshan	n" was writ	ten by	7 <b>:</b>				
	(A)	S.K. Pottekad			(B)	K. R	amakrishna Pil	llai		
	(C)	V.K. Narayanar	nkutty	Nair	(D)	K.P.	Kesava Menor	ı		
A					3					

{P.T.O.}

8.	which field of Medical Sciences?			
	(A)	Organ transplantation	(B)	Blood transfusion
	(C)	Cancer disease	(D)	Clonning
9.	The	first journalistic publication in Ma	layala	ım, 'Rajya Samacharam' was published by :
	(A)	Church Mission Society	(B)	London Mission Society
	(C)	Basel Evangelical Mission	(D)	Jesuit Missionaries
10.	Who	among the following reformers use	ed 'Sar	matva Samajam' for social reformation in Kerala ?
	(A)	Chattampi Swamikal	(B)	Vaghbhatananda
	(C)	Vaikunda Swamikal	(D)	K.P. Vellon
11.	The	name of Vakom Abdul Khadir Ma	ıulavi	is not associated with the publication of:
	(A)	Al Islam	(B)	Swadeshabhimani
	(C)	Deepika	(D)	Al Ameen
12.		ch one among the following that d an Parliament ?	oes no	ot belong to the financial standing committee of
	(A)	Estimate Committee	(B)	Public Undertakings Committee
	(C)	Subject Committee	(D)	Public Accounts Committee
13.	The	book 'Atmanutapam' was written	by:	
	(A)	Abraham Malpan	(B)	Mar Elias Chavara
	(C)	Pampadi John Joseph	(D)	Pandit K.P. Karuppen
14.	'Sab	ari Ashram' an orphanage for the	childr	en of the depressed classes was started by :
	(A)	Dr. Ayyathan Gopalan	(B)	V.T. Bhattathiripad
	(C)	T.R. Krishna Swami Iyer	(D)	V.P. Narayanan Nambiar
15.		lumala Agitation' was organised b rmer in Kerala :	y the	inspiration of the ideas of the following social
	(A)	Velukutty Arayan	(B)	Moorkoth Kumaran
	(C)	Sahodaran Ayyappan	(D)	Ayyankali

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 $\mathbf{A}$ 

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<b>16</b> .	'Sree	emoolavasam' was	close	ely associate	ed as	:				
	(A)	Buddhist centre			(B)	Pop	ular ass	embly		
	(C)	Royal households	3		(D)	Jain	centre			
17.	The	first woman High (	Cou	t Judge in 1	India	:				
	(A)	Leela Seth	(B)	Meera Ku	mar	(C)	Anna	Chandy	(D)	Anna Malhotra
18.	C. K Cali	rishnan campaigne cat :	ed ag	ainst untou	ıchabi	lity ir	the col	umns of	his pap	per published from
	(A)	Kerala mitram			(B)	Mitavadi				
	(C)	Paschimataraka			(D)	Gon	nati			
19.		niracle of modern to, by:	time	s" is a fam	ous co	omme	ent on t	he Temp	ole Enti	ry proclamation o
	(A)	Swami Vikekana	nda		(B)	Jaw	aharlal	Nehru		
	(C)	Mahatma Gandh	i		(D)	K. k	Kelapan			
20.	The	book 'Aphante Ma	kal'	written by	M.B. 1	Namb	udiripa	d belong	s to the	e literature of :
	(A)	Drama	(B)	Novel		(C)	Short	story	(D)	Poems
21.	Hac	ksaw blades are ma	ade o	of:						
	(A)	Low alloy steel ar	nd hi	gh speed st	teel					
	(B)	Medium carbon s	teel	and stainles	ss stee	1				
	(C)	High carbon steel	and	stainless st	teel					
	(D)	Low carbon steel								
22.	The calle	type of hacksaw f	rame	es in which	more	e thar	one st	andard s	size bla	de can be fitted i
	(A)	Solid frame			(B)	Fixe	d frame	9		
	(C)	Adjustable frame			(D)	Tub	ular fra	me		
23.	The	punching marks or	n the	e lines draw	vn du	ring 1	narking	off are	known	as
	(A)	Marking			(B)	Witi	ness ma	rking		
	(C)	Drawing			(D)	Che	cking			

24.	The	vice clamps are	used t		·					
	(A)	Protect hard jav	ws		(B)	Clar	np the work pie	ece rigid	lly	
	(C)	Protect the finis	shed s	urfaces	(D)	Prev	ent the movable	e jaw be	eing filed	
25.	The	size of an engine	er's vi	ce is specifie	ed by	the :				
	(A)	Length of the n	novabl	le jaw	(B)	Wid	th of the jaw			
	(C)	Height of the vi	ce		(D)	Max	imum opening	of the j	aw	
26.		part of the univ m edge is the :	ersal	surface gau	ige wl	hich l	elps to draw t	he para	illel line along	the
	(A)	Rocker arm			(B)	Snu				
	(C)	Fine adjustmen	t screv	W	(D)	Guio	le pins			
27.	Scrib	pers are made of	:							
	(A)	Mild steel			(B)	Bras	s			
	(C)	High carbon ste	eel		(D)	Cast	iron			
28.	The	reference surface	durin	ıg marking i	is pro	vided	by the :			
	(A)	Surface gauge			(B)	Wor	k piece			
	(C)	Drawing of the	work		(D)	Mar	king table surfa	ice		
29.	Whi	le cutting small d	liamet	er pipes, it i	is adv	isable	to watch regula	arly and	d ensure that :	
	(A)	More saw teeth	are ii	n contact	(B)	The	cut is along the	curved	line	
	(C)	The work is not	overl	neated	(D)	Prop	er balancing of	hacksa	w is maintaine	ed
30.	The	copper-zinc alloy	s are	known as :						
	(A)	Bronzes	(B)	Brasses		(C)	Led	(D)	Zinc	
31.		process of introd	ucing	carbon into	low o	carbor	steels in order	to prod	luce a hard sur	face
	(A)	Electroplating	(B)	Nitriding		(C)	Carburizing	(D)	Spraying	
32.	Pig i	iron refined in a	cupol	a produces						
	(A)	Cast iron	(B)	-				(D)	Stainless steel	1
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33. Materials which do not contain iron is known as:									
	(A)	Ferrous materia	ls		(B)	Non	-metals		
	(C)	Non-ferrous me	tals		(D)	Cera	nmic metals		
34.	Wro	ught iron is prod	uced 1	by:					
	(A)	Pudding proces	s		(B)	Bess	emer convertor		
	(C)	Electric furnace			(D)	Cup	ola furnace		
35.	Whi	ch of the followir	ıg is a	ferrous ma	iterial	?			
	(A)	Zinc	(B)	Plastic		(C)	Silicon carbide	(D)	Iron
36.	The	angle of centre p	unch	is					
	(A)	30°	(B)	60°		(C)	90°	(D)	120°
37.	The	portion of the ha	mmer	which is n	ot har	dened	is the :		
	(A)	Face	(B)	Peen		(C)	Handle	(D)	Cheek
38.	A dı	rift is used for dri	lling r	machine is :					
	(A) Drawing a drill location								
	(B)	Indexing chuck	on sp	oindle					
	(C)	Removing the d	rill fro	om the mac	hine s	pindle	e		
	(D)	Removing from	broke	en drill fron	n the v	vork			
39.	Suita	able cutting fluid	for di	rilling mild	steel i	n dril	ling machine is _		,
	(A)	Synthetic solubl	e oil		(B)	Dist	illed water		
	(C)	Kerosene			(D)	Solu	ble oil		
40.		distance, which t hining, is known		tting edge	of a to	ool pa	sses over the ma	terial	in a minute, while
	(A)	Cutting speed	(B)	Feed		(C)	Speed	(D)	RPM
41.	The	chisel will dig int	to the	material w	hen :				
	(A)	The rake angle i	s mor	e	(B)	The	angle of inclination	on is 1	nore
	(C) The clearance angle is too low (D)					) The angle of inclination is too low			
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<b>42</b> .	A sli	ght convexity	is given	to cutting e	dge to	:				
	(A)	Cut curved s	urfaces		(B)	Cut	sharp corners	5		
	(C)	Prevent diggi	ng on th	ie ends	(D)	Allo	w the lubrica	nt to ente	r	
43.	The	point angle for	a stand	ard drill is						
	(A)	135°	(B)	60°		(C)	108°	(D)	118°	
44.	The	part of a Verni	er bevel	protractor	on wh	ich m	ain scale divi	sions are	marked is the	:
	(A)	Stock			(B)	Dial				
	(C)	Disc			(D)	Adjı	ıstable blades			
<b>45.</b>	The	process of beve	elling the	e end of a h	ole is	called	:			
	(A)	Reaming			(B)	Cou	nter sinking			
	(C)	Spot facing			(D)	Cou	nter boring			
46.	The	term surface fi	nish refe	ers to the :						
	(A)	Shining of a	machine	d surface						
	(B)	Type of coati	ng given	on a surfa	ce					
	(C)	Heat treatme	nt given	on a surfac	ce					
	(D)	Roughness or	smooth	ness of a si	urface					
<b>47.</b>				-			U -	parts, a ho	ole and shaft, v	with
	-	ect to their din					•			
	(A)	Fit	(B)	Tolerance		(C)	Deviation	(D)	Allowance	
48.		rvice petroleun ollowing ?	n pipe lir	ne flange is	to be d	lrilled	. Which mach	ine would	l you choose o	ut of
	(A)	Electrical han	d drillin	ng machine	(B)	Pne	umatic hand o	drilling m	achine	
	(C)	Sensitive dril	ling mac	hine	(D)	Pilla	r drilling mad	chine		
49.	Leas	t count of a Ve	ernier me	etric micror	neter i	s:				
	(A)	0.1 mm	(B)	0.01 mm		(C)	0.001 mm	(D)	0.0001 mm	
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50.	A chemical compound of carbon with iron is called :										
	(A)	Ferrite	(B)	Cementite	!	(C)	Pearlite	(D)	Austenite		
51.	In a	nvil round ho	ole is calle	d							
	(A)	Drawing do	wn and c	utting off	(B)	Harc	lie hole				
	(C)	Bending to	round sha	pe	(D)	Punc	ching hole				
52.	A w	elding rectifie	r is used	to:							
	(A)	Convert an	A.C. weld	ling supply	into a	D.C.	supply				
	(B)	Generate a l	D.C. weld	ing supply							
	(C)	Convert a D	.C. weldi	ng supply i	nto ar	ı A.C.	welding				
	(D)	Increase am	pere								
53.	Test	ing a weld w	ithout daı	naging the	joint i	is call	ed	_•			
	(A)	Destructive	testing		(B)	Non	-destructive to	esting			
	(C)	Chemical te	sting		(D)	Non	-chemical test	ting			
<b>54.</b>	In a	lathe machin	e internal	and externa	al tape	er turi	ning can be d	one by :			
	(A)	Offsetting th	ne tailstoc	k							
	(B)	A combinati	on of bot	h the cross-s	slide a	nd th	e compound	slide			
	(C)	Swivelling t	he compo	und slide							
	(D)	Form tool m	ethod								
55.	Whe	n a tool is set	above the	e centre line	of a l	lathe ?	•				
	(A)	Front cleara	nce decre	ases							
	(B)	Front cleara	nce increa	ases							
	(C)	Front cleara	nce does	not change							
	(D)	Front cleara	nce becon	nes equal to	the s	ide cle	earance				
56.	A sii	ne bar is used	for:								
	(A)	Levelling the	e job for d	rilling	(B)	Find	ing the angle	of a taper	job		
	(C)	Measuring t	he diamet	ter of holes	(D)	Chec	cking the prof	file of a th	read		

57. In honing processes, the movement of the spindle is:											
	(A)	Vertical and rec	iproc	ating	(B)	Hori	zontal and recip	rocatii	ng		
	(C)	Reciprocating			(D)	Rota	ting				
58.	The	external threads o	on G.l	. pipes are o	cut eas	sily by	<i>y</i> :				
	(A)	Tap sets			(B)	Dies	Dies and die stocks				
	(C)	Thread rollers			(D)	Cent	tre lathe				
59.		is the mas	s per	unit volum	ie of a	fluid					
	(A)	Density	(B)	Viscosity		(C)	Specific volume	(D)	Specific gravity		
60.		at a point	is th	e force per	unit a	rea.					
	(A)	Compressibility	(B)	Viscosity		(C)	Pressure	(D)	Strain		
61.		is a device	e useo	d for lifting	heavy	/ weig	thts by the applic	cation	of a much smaller		
	force			0	J		, , , , , , , , , , , , , , , , , , , ,				
	(A)	Hydraulic accur	nulat	or	(B)	Hyd	raulic crane				
	(C)	Hydraulic coupl	ing		(D)	Hyd	raulic press				
62.	Mon	nentum of a body	is giv	en by :							
	(A)	Mass × velocity			(B)	Mas	$s \times$ acceleration				
	(C)	Moment × distar	nce		(D)	Mas	s×change of velo	ocity			
63.	Wat	t is the unit of :									
	(A)	Force	(B)	Velocity		(C)	Work	(D)	Power		
64.	One	metric horse pow	er is	equal to :							
	(A)	746 watts	(B)	736 watts		(C)	536 watts	(D)	636 watts		
65.		states that	for r	naterial load	ded w	rithin	elastic limits, the	stress	is proportional to		
	strai	n, produced by st					,		1 1		
	(A)	Hooke's law	(B)	Plank's la	w	(C)	Euler's law	(D)	Fleming's law		

66.	In a riveted joint the tensile, shearing and crushing stresses are based on the:								
	(A)	Material size							
	(B)	Diameter of rive	et						
	(C)	Mean of the dia	meter	of rivet and	d drill	ed hol	le		
	(D)	Diameter of dril	lled h	ole					
67.	A w	elded joint as cor	npare	d to riveted	joint,	has:			
	(A)	Less strength			(B)	More	e strength		
	(C)	Equal strength			(D)	Com	parisons not rec	quired	
68.	The	radial distance of	f the t	tooth above	pitch	circle	is called		
	(A)	Dedendum	(B)	Pitch		(C)	Addendum	(D)	Diameter
69.	The	point of contact o	of two	pitch circle	s of m	nating	gears is called:		
	(A)	Circular pitch	(B)	Module		(C)	Pitch point	(D)	Addendum
70.	Diffe	erence between th	ne upp	oer limits an	d low	er lim	it of deviation is	s called	:
	(A)	Allowance	(B)	Tolerance		(C)	Interference	(D)	Basic size
71.	Fluid	d mechanic deals	with	the behavio	our of	the _			
	(A)	Liquids or gases	3		(B)	Solic	l or gases		
	(C)	Semi solid or ga	ses		(D)	Half	solid or gases		
72.	The	copper tin alloys	are k	nown as :					
	(A)	Brasses	(B)	Lead		(C)	Zinc	(D)	Bronzes
73.	If the	e metals are duct	ile an	d cutting sp	eeds a	are hig	gh, then:		
	(A)	Continuous chij	ps are	formed					
	(B)	Discontinuous o	hips	are formed					
	(C)	Continuous chip	os wit	th built-up e	edge a	re for	med		
	(D)	Discontinuous o	hips	with built-u	p edg	e are f	formed		

74.	The ability of a tool material to resist shock or impact forces is known as											
	(A)	Wear resistance	!		(B)	Har	dness					
	(C)	Toughness			(D)	Mac	hinability					
75.		device, which he			a woi	k pie	ce and guide	s and con	trols one or more			
	(A)	Fixture	(B)	Jig		(C)	Lathe	(D)	Templates			
76.	A di	amond pointed c	hisel i	s used for c	utting	<b>;</b> :						
	(A)	Grooves			(B)	Key	ways					
	(C)	V shaped groov	es		(D)	Flat	surfaces					
77.	The	grain structure is	defin	ed in :								
	(A)	Cold working p	roces	S	(B)	Hot	working proc	cess				
	(C)	Air blasting pro	cess		(D)	Non	e of the above	e				
78.	EDM	I stands for :										
	(A)	Electro discharg	ge ma	chining	(B)	Ener	rgy discharge	method				
	(C)	Energy direct m	ethod	l	(D)	Effic	cient direct me	ethod				
79.	For	cutting operation	, the 1	most suitabl	le flan	ne is _	·					
	(A)	Neutral			(B)	Oxio	dizing flame					
	(C)	Carburizing fla	me		(D)	Non	e of the above	9				
80.	Follo	owing which mat	erial f	lux is not us	sed fo	r weld	ding ?					
	(A)	Copper	(B)	Brass		(C)	Bronze	(D)	Carbon steel			
81.	The	included angle fo	or Acn	ne thread is	:							
	(A)	60°	(B)	45°		(C)	29°	(D)	55°			
82.	M 30	0×2 for a bolt rep	oreser	nts:								
	(A)	Metric threads of	of 30 1	mm outside	diam	eter a	nd 2 mm pitc	h				
	(B)	Metric threads	of 60 1	mm 2 cross	sectio	nal ar	ea					
	(C)	Metric threads o	on a b	olt of lengtl	h 30 m	nm						
	(D)	Mild steel threads on 30 mm										

83.	Which of the following threads is not used when the force acts entirely in one direction?											
	(A)	Square thread	(B)	Buttress t	hread	(C)	B.S.W thread	(D)	Acme thread			
84.	The	largest permissib	le size	e for a dime	nsion	is kno	wn as :					
	(A)	Lower limit	(B)	Basic size		(C)	Actual size	(D)	Upper limit			
85.	The system said to be bilateral tolerance if:											
	(A)	Tolerance is positive				Tolerance is in one direction						
	(C)	Tolerance is in two direction				Tolerance is negative						
86.	The notation 70H6/g5 means :											
	(A) Basic size is 70 mm and tolerance grade of hole is 6 and shaft is 5											
	(B)	) Basic size is 70 mm and tolerance grade of shaft is 6 and hole is 5										
	(C)	Basic size is 70	mm									
	(D)	,										
87.	The two plates are to be jointed by rivets. The plates are touching each other and two cover plates are placed on both sides of the main plates and then riveted. This type of joint is known as:											
	(A)	(A) Lap joint				Butt joint						
	(C)	Single strap joint			(D)	Double strap butt joint						
88.	Which material having highest melting point ?											
	(A)	Tungsten	(B)	Mangane	se	(C)	Copper	(D)	Diamond			
89.	Bar is the unit of :											
	(A)	Power	(B)	Energy		(C)	Pressure	(D)	Work			
90.	Unit of energy is:											
	(A)	Watt	(B)	Joule		(C)	Joule-meter	(D)	Calorie			
91.	is the process of heat transfer from a hot body to cold body without effecting the											
	medium. (A) Radiation (B) Conduction											
	(A)	Radiation				Con	Conduction					
	(C)	Convection			(D)	Con	vection and con	duction	n			

92.	. Within the elastic limit in a loaded material, stress is :										
	(A) Inversely proportional to strain			(B)	Directly proportional to strain						
	(C)	Elasticity			(D)	Plast	cicity				
93.	Files	are made of :									
	(A)	Cast iron			(B)	Wro	ught iron				
	(C) Medium carbon steel			(D)	High carbon steel						
94.	Α	is used	e.								
	(A)	Bastard file			(B)	Seco	nd cut file	cut file			
	(C)	Smooth file			(D)	Deac	d smooth file				
95.	The	is the	narro	ow strin wh	ich ev	tends	to the entire len	oth of	the flutes		
,		Shank	(B)	Web	icii cx		Land/Margin	_	Body		
96.	The purpose of is to restore the cutting action of the grinding wheel.								g wheel.		
	(A)	Loading	(B)	Glazing		(C)	Truing	(D)	Dressing		
97.	An accuracy of a metric micrometer is										
	(A)	0.1 mm	(B)	0.01 mm		(C)	0.02 mm	(D)	0.001 mm		
98.	The accuracy of vernier bevel protractor is										
		One degree						(D)	Five minute		
99.	In 'v	In 'v' block included angle VEE is									
		45°	(B)	60°		(C)	90°	(D)	120°		
100.		is used to	checl	k the gap be	etweei	n the :	mating parts.				
		Feeler gauge		0 1		(C)	0 1	(D)	Gauge		

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