Question Booklet Alpha Code





Total Number of Questions: 100

Time: 90 Minutes

Maximum 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.
- 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.
- 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/her 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.
- 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.

A -2-

1.	Which of the following is the work of A) Badhira VilapamC) Karuna	f Vallathol Narayana Men B) Duravastha D) Chitrasala	non ?
2.	B) Ulloor S. Parameswara Iyer – C) A. R. Raja Raja Varma –	Prarodanam Vrithamanjari	
3.	-	Malayala Rajyam Malayala Manorama Kerala Kaumudi	
4.	Who among the following is the autA) M. P. BhattathirippadC) K. Damodaran	hor of 'Pattabakki' ? B) V. T. Bhattath D) E. V. Krishna	• •
5.	. Which is the correct chronological of i. Channar Agitation ii. Temple Entry Proclamation iii. Vaikom Satyagraha iv. Guruvayur Satyagraha A) i, iii, iv, ii B) i, ii, iii, iv		nts ? D) iv, i, ii, iii
6.	 i. The progressive intellectuals like Abstention Movement. ii. The Abstention Movement of 19 iii. The Abstention Movement stood Travancore. iv. The leaders of Abstention Move State Congress. Which of the statements given above A) i and ii 	032 was started in Kochi. If for achieving Responsibement and others jointly fo	ole Government in
		0	

	 Identify the wrongly matched pair A) T. K. Madhavan B) C. Krishnan C) Brahmananda Sivayogi D) Kesavan Asan Which one of the following states A) Basel Evangelical Mission (B in Travancore. B) Rev. Dawson started a school 	 Sivayogavilas Mitavadi Mokshaprade Sujananandir ments is not corre EM) took the initi 	eepam ni ect ? ative of Spread	ing English Education
	C) Rajya Samacharam and Pasc Gundert.D) The London Mission Society Travancore in the beginning of	himodayam were	published from e of Spreading	
9.	The book 'Kerala Simham' is wri	tten by		
	A) C. V. Raman Pillai		Kesavadev	
	C) K. M. Panikkar	D) Ap	pu Nedungadi	
10.	The slogan 'American Model Ara	bikadalil' is relate	ed to	
	A) Kayyur Revolt	B) Ni	varthana Agitat	ion
	C) Attingal Revolt	D) Pu	ınnapra Vayala	r Struggle
11.	Consider following statements: i. The idea of an Indian Constit Newspaper 'Indian Patriot'. ii. The Cripps Mission was appoliii. In 1934, the Indian National Casembly. iv. The Constituent Assembly was Mission. Which of the statements given a A) i, ii, iv B) i, iii, iv	ointed in 1946. Congress officially as set up as per t	y demanded for he recommend ct ?	a Constituent
	7 (y 1, 11, 11 D) 1, 111, 1V	٠, ١٧,	п	υ _/ III, Ιν

12.	2. Which of the following statements is/are correct with reference to the Preamble of India Constitution?							
	i. Preamble is the Soul of the Constitution.							
	ii. Preamble provides a key to understanding and interpretation of the Constitution.							
	iii. Preamble speaks	about the ideal and p	hilo	sophy of the Cons	stitut	tion.		
	-	ntains the fundamenta						
	A) Only ii and iii		•	Only i and iv				
	C) Only i and iii		,	All of the above (i. ii.	iii and iv)		
	, . ,		,	(, ,	,		
13.	Which one of the follo	owing is not a commo	n fe	ature of federalisn	n in	U.S.A. and India?		
	A) Distribution of pov	wers between the Uni	on a	ind the States				
	B) The existence of t	the Supreme Court						
	C) Two sets of Judic	ial Organisations						
	D) Written Constitution	•						
	·							
14.	Right to Education ha	as been placed in the	Indi	an Constitution ur	nder			
	A) 95 th Amendment	Act	B)	B) 86 th Amendment Act				
	C) 73 rd Amendment	Act	D)	85 th Amendment	Act			
15.	Which Article of the In	dian Constitution deals	s wit	h the Fundamental	Du	ties of the citizen?		
	A) Article 51 A	B) Article 42	C)	Article 14	D)	Article 21 A		
16	Which are of the follo	owing is not a mamba	or of	the OLIAD group	2			
10.	Which one of the follo	•				11.0.4		
	A) France	B) India	C)	Japan	D)	U.S.A.		
17.	Which Five Year Plan linked ICDS (Integrated Child Development Services) to Anganavadi							
	Centres ?					3		
	A) Tenth Five Year F	Plan	B)	Fifth Five Year P	lan			
	C) Second Five Year	r Plan	D)	Sixth Five Year F	lan			
	,		,					
18.	Who is the 29th Chief	f of the Indian Army?						
	A) M. M. Naravane		B)	B) R. Harikumar				
	C) Manoj Pande		D)	V. R. Chaudhari				
19.	Venue of the 14 th BR		<u> </u>			-		
	A) Tokyo	B) Paris	C)	New York	D)	Beijing		
Α		-5	<u>-</u>					

20.	The first woman cricketer to appear in six of A) Harman Preet KaurC) Smrithi Mandana			cricket world cups B) Mithali Raj D) Jhulan Goswami				
21.	88-108 MHz frequence A) TV signals	, ,		mitting FM	D)	Microwave		
22.	Line-of-sight commun A) Ground wave	nication uses B) Sky wave	C)	Space wave	D)	Surface wave		
23.	 3. 100% modulation is produced in AM when A) Carrier amplitude equal to signal amplitude B) Carrier amplitude exceeds signal amplitude C) Carrier frequency equal to signal frequency D) Carrier frequency exceeds signal frequency 							
24.	In superheterodyne back A) Higher than the in C) Equal to the incor	coming signal	B)	quency of local os Lower than the in None of these				
25.	 5. In frequency modulation A) Amplitude of the carrier remains same B) Frequency of the carrier varies in accordance with the amplitude of the modulating signal C) The no. of sidebands are infinite D) All of the above 							
26.	In AM transmission the A) Upper sideband C) Carrier frequency	, ,	B)	transmitted is Lower sideband Audio frequency				
27.	Pre-emphasis circuit A) After modulation of C) Before deflection	circuit	,	Before modulatio After deflection c				
28.	Demodulation occurs A) Transmitting ante C) Radio receiver		,	Transmitter None of these				

A -6-

29.	29. In FM the output noise can be further decreased by				
	A) Decreasing freque	ency deviation	B)	Increasing freque	ency deviation
	C) Keeping deviation	n constant	-	None of these	•
30.	In a television the asp A) The ratio of raster B) The ratio of raster	pect ratio is defined as r width to height		to vertical scannin	g frequency
04	Markanananah	l contrara tono contrata TV			
31.	•	d antenna type with T\			
	A) Yagi antenna		,	Rhombic antenna	1
	C) Loop antenna		D)	V antenna	
32.	In case of Indian TV	system the difference	bet	ween video IF and	sound IF is
		B) 5.5 MHz		6 MHz	D) 6.5 MHz
	,	,	,		•
33.	In television video tra	ensmitter the type of a	mpl	itude modulation ι	ised is
	A) DSB		B)	SSB	
	C) VSB		D)	Suppressed carri	er DSB
24	The Shadow mack in	colour picture tube is		ad to	
J 4 .	A) Reduce X-ray rad		usi	eu io	
	•	primary colour beam	hits	only its own dots	
	C) Increases screen	•		only no own doto	
	D) None of the above	=			
	,				
35.	The colour TV syste	m adopted in India is			
	A) PAL system	B) NTSC	C)	SECAM	D) None of these
26	Balun in a TV receive	or is located			
30.	A) At AGC stage	ei is iocated	B)	Between feeder a	and receiver
	C) At antenna		,	Between RF stag	
	o) / tt articilità		را	Detween in Stag	
37.	In colour TV receiver	colour killer circuit			
	A) Prevents colour o	ver loading			
	B) Ensuring separati	on of colours			
	C) Cuts off the Chron	ma stage during mond	chr	ome reception	
	D) Cuts off reception	during back porch			
Δ		- 7	_		

38.	Interlacing is used in				
	A) Ensure scanning ofC) Produce illusion of		•	Avoid flicker None of the abov	0
	C) Froduce illusion o	THOUGH	(ט	None of the abov	С
39.	In RGB colour model	used in TV, complem		-	n is
	A) Yellow	B) Red	C)	Cyan	D) Magenta
40.	A degaussing coil in of A) Demagnetising trails) Demagnetising co	insformer core	ed 1	for	
	C) Rotating directions D) Trap circuit	•			
41.	•	•			vo or more paths during between signals at the
	A) Fading	B) Absorption	C)	Doppler shift	D) Diffraction
42.	The region between the sky waves returns to	•	ave	es received to the i	nearest point where the
	A) Angle of radiation		•	Skip distance	
	C) Skip zone		D)	Multiple skip	
43.	The mechanism that of layers of ionosphere		net	ic waves to return l	pack to earth by anyone
	A) Only Reflection		,	Only Refraction	
	C) Only Diffraction		D)	None of the abov	е
44.	60 percentage of mo	•			gnal that has power of
	A) 600 watts	B) 180 watts	C)	90 watts	D) 320 watts
45.	The major advantage	of frequency modulate	tion	over amplitude m	odulation is
	A) Small frequency d	eviation	B)	Higher carrier fre	quency
	C) Smaller bandwidth	1	D)	Reception is less	noisy
46.	Phase locked loop ca	n be used as			
	A) AM demodulator			FM demodulator	
	C) AM receiver		D)	FM receiver	

Α		-9	,			
55.	The output of the ver A) Direct current C) A saw tooth voltage		to the yoke in a TV re B) Amplified vertica D) A saw tooth curre	l sync pulse		
54.	Which among the fo hand-off decision pro A) Network controlled C) Soft hand off	cess?	ralized hand-off proto B) Mobile assisted h D) Mobile controlled			
53.	If the radius of the sp the split cell is A) Equal to C) One fourth of		•	ell, the coverage area of		
52.	2. If the synchronization between the transmitter and receiver falls which of the following pulse systems would be affected? A) PAM B) PWM C) PPM D) None of these					
51.	Under which of the for A) Sampling signal for B) Sampling signal for C) Sampling signal for D) Sampling signal for D)	requency less than Ny requency more than N requency equal to Ny	yquist rate lyquist rate quist rate	st rate		
50.	A pulse amplitude mo	odulated signal can be B) Low pass filter	, ,	D) Band pass filter		
49.	An antenna has 40 © efficiency of antenna. A) 30%		and 60 Ω radiation reC) 40%	esistance. Calculate the D) 50%		
48.	occur in Helical anter	•	red to wavelength wh	hich mode of radiations D) Circular		
47.	Calculate the dissipate A) 1.83 W	d power of a 91% effic B) 1.38 W	ient antenna if the trans C) 1.54 W	smitted power is 15.4 W. D) 1.43 W		

56.	Which among the following optical devices allows light to pass through them in only one direction?				
	A) Optical circulator		B)	Optical splitter	
	C) Optical isolator		•	Optical couplers	
57.	In voltage source inverte A) Independent of the lo B) Dependent on the loa C) Dependent only on lo D) None of the above	ad ad	f th	e output voltage i	S
58.	What is the measured un A) Voltage B)	•		g ? Volt ampere	D) Farad
59.	Which among the following to citizens with quality and A) E-Business C) E-Governance	nd transparency ?	B)	f ICT for deliverin E-Administration E-Marketing	ng government services
60.	 D. Name the authority competent to issue license to possess wireless telegraphy apparatulin India. A) Telegraph authority constituted under Indian Telegraph Act, 1885 B) Telegraph authority constituted under Indian Telegraph Act, 1934 C) Telegraph authority constituted under Indian Telegraph Act, 1972 D) None of the above 				
61.	If two lamps of 100 w and A) 100 w lamp will give IB) 40 w lamp will give IBC) 100 w lamp gives more D) 40 w lamp gives more	ess light ss light re light	ed	in parallel across	a 220 volt ac supply
62.	During continuity test, a dreading.	lead short in an inst	alla	tion indicated in a	a meggar by
	A) zero reading		B)	1 megaohm	
	C) infinity megaohm		,	10 megaohm	
Δ		-10-			

Α	-11	-
69.	Low retentivity materials are suitable for mater	aking
68.	The form factor is the ratio of A) peak value to r.m.s. value B) r.m.s. value to peak value C) r.m.s. value to average value D) peak value to average value	
67.	In delta connected load, if one resistor is reA) one-third C) three-fourth	emoved the power will become B) one-fourth D) two-third
66.	At very high frequencies, the parallel RL cir. 1. a pure capacitive circuit 2. a pure resistive circuit 3. a pure RL circuit 4. a pure inductive circuit A) both 1 and 2 C) 4 only	B) both 2 and 4 D) 2 only
65.	If a choke is not connected to an a.c. tube (A) will continue to glow B) will get fused C) will not glow D) will glow intermittently	circuit then the tube is
64.	The power dissipation in a pure inductor is A) zero C) infinity	B) unity D) none of these
63.	How many free electrons will move through second? A) 6.64×10^{16} C) 6.24×10^{18}	h a conductor for one ampere current in one B) 6.64×10^{18} D) 6.34×10^{18}

70.	The relative permeability of a magnetic model. It flux 2. type of material 3. type of magnetizing force 4. retentivity.	naterial depends on the
	A) 2 only C) 4 and 1 only	B) 1 and 2 only D) 3 only
71.	A material slightly repelled by a magnet a A) ferromagnetic material C) paramagnetic material	re called B) insulating material D) diamagnetic material
72.	The process of magnetizing steel is difficult. A) it corrodes easily C) it has low specific gravity	ult because B) it has low permeability D) it has high conductivity
73.	The transformer oil used in a transformer 1. cooling and insulation 2. insulation and conduction 3. cooling and lubrication 4. insulation and cooling A) both 1 and 3 C) both 3 and 2	B) both 1 and 4 D) both 1 and 2
74.	Which of the following is incorrect? 1. Meggar – for checking insulation resis. 2. Lux meter – measure the amount of a. 3. Clamp meter – resistance 4. Tachometer – revolution per minute. A) both 1 and 2. C) both 3 and 4.	
75.	Lead sheath wiring should not be installed A) statement is correct B) statement is incorrect C) statement is correct or not correct D) none of these	d near alkaline natured places
Α	-	12-

76.	The winding used for neutralizing the cross A) lap winding C) compensating winding	magnetising effect in dc generator is B) wave winding D) basket winding
77.	The pole flux of a dc generator reduced du A) magnetizing effect of armature reaction B) cross magnetising effect of armature re C) demagnetizing effect of armature reacti D) residual magnetism of pole shoe	e to action
78.	The power factor of a squirrel cage induction A) low at heavy load only C) high at low load only	on motor is B) low at light load only D) high at high load only
79.	For the measurement of slip in 3 phase ind of white and black segment is A) both are equal B) white segment is more than black segment is more than white segment is more than white segment is more than white segment.	
80.	The causes for producing sparking at the base of the cause of	rushes in a d.c. machine is B) 1, 3, 4 are correct D) 4, 2, 1 are correct
81.	Second generation computers are made of A) VLSI C) Transistors	B) Vacuum tubes D) Microprocessors
82.	Choose the odd one out. A) Super computer C) Mainframe computer	B) Digital computer D) Micro computer
Α	-13	-

83.	33. A register that keeps track of next instruction to be executed				
	A) Accumulator		B)	Instruction registe	er
	C) Data register		D)	Program counter	
84.	Which of the followin A) Optical character B) Bar code reader C) Joysticks D) Magnetic-ink cha	-	docı	ument containing t	text?
0.5	, -	-		us a listing of	واورينور
85.		ics Adapter display ha B) 640 × 350			
86.	LCD stands for A) Liquid Colour Dis C) Light Colour Disp		-	Lithium Crystal D Liquid Crystal Dis	
87.	Printer which follow (A) Ink-jet printer (C) Thermal printer	CMYK colour process	•	Laser printer Dot-matrix printer	r
88.	Fastest memory in c A) Hard disk	-	C)	ROM	D) RAM
89.	Which of the followin A) Floppy disk C) Pen drive	ng is a type of optical s	B)	ge ? Hard disk DVD	
90.	Latest intel core prod A) Core i15		C)	Core i7	D) Core i3
91.	Core of Linux operat A) Kernel C) Command	ing system is	•	Shell Application progr	am
92.	Which of these is no A) Windows	t an operating system B) Linux		Pascal	D) Unix

Α

93.	Which of the following is not an application A) Access C) PowerPoint	B)	MS-Office ? Word DOS
94.	. Combine name and address with standard document is called		
	A) Mail merge	B)	DBMS
	C) Document formatting	D)	Form letters
95.	Shortcut key to select entire document		
	A) Ctrl + N	B)	Ctrl + S
	C) Ctrl + A	D)	Ctrl + C
96.	DHCP Server provides to the client.		
	A) MAC address	B)	IP address
	C) DNS	D)	url
97.	Which of the protocol used in Transport layer of TCP/IP model ?		
	A) HTTP	B)	SMTP
	C) UDP	D)	IP
98.	lardware address is known as		
	A) Physical address	B)	Logical address
	C) IP address	D)	Address Resolution Protocol
99.	Which of the following allows user to view a webpage?		
	A) Compiler	B)	Operating System
	C) Interpreter	D)	Internet Browser
100.	Domain name converted into IP address with the help of		
	A) URL	B)	UDP
	C) DNS	D)	HTTP

Space for Rough Work

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