## **MODEL QUESTIONS**

## **General Knowledge**

## For Open Quota & Departmental Candidates

#### **PHYSICS**

1.	The speed of light through vacuum is ?							
	A. 3	x10 <sup>8</sup> m/sec	B.	3x10 <sup>8</sup> Km/sec				
	C. 30	00 m/sec	D.	3000 m/sec				
2.	Powe	er is generated in nuclear reactor	s using	g the principle of ?				
	A. N	uclear fission	В.	Nuclear fusion				
	C. Uı	ncontrolled chain reaction	D.	None of the above				
3.	The c	communication through OPTICAL	. FIBER	is based upon the phenomenon of ?				
	A.	Reflection	В.	Total Internal Reflection				
	C.	Refraction	D.	Interference				
4.	The h	neat of Sun reaches earth by way	of?					
	A.	Conduction	В.	Convection				
	C.	Radiation	D.	None of the above				
5.	Whic	h of the following is true?						
	A.	Electron has no charge						
	В.	Proton has negative charge						
	C.	Neutron has positive charge						
	D.	Proton has positive charge, electron charge	ctron h	nas negative charge and neutron has no				

6. In I	6. In India, the voltage and frequency of the AC power used for domestic purpose is -							
A.	220 V, 50 Hz		B.	110 V	, 60 H	Z		
C.	220 V, 60 Hz		D.	110 V	, 50 H	Z		
7. Boi	ling point of wat	er is -						
A.	0° C I	3. 100°	С	C.	120°	С	D.	100° F
8. The	name of the ga	laxy in whic	ch our	earth is	s situa	ted is -		
A.	Andromeda				В.	The M	ilky w	ay
C.	Triagulum				D.	None o	of the	above
9. Renewable energy resources are -								
A.	Coal, Solar & V	Vind			В.	Nuclea	ar, Hyd	dro electric, Tidal energy
C.	Solar, Hydro el	ectric & wi	nd		D.	Natura	al gas,	wave & geo thermal
10. Re	ear view mirrors	in vehicles	are mo	ostly -				
A.	Concave Mirr	or	В.	Plane	Mirro	r		
C.	Convex Mirro	or	D.	None	of the	above		

СН	E۱	Λl	ST	RY

11.	11. The number of elements known to us presently are -											
Α	•	92	В.	100	C.	118	D.	150				
12.	Ch	emical	formu	ıla of A	lcohol	is -						
A	•	C <sub>6</sub> H <sub>6</sub>		В.	C <sub>2</sub> H <sub>5</sub>	ОН	C.	CH <sub>4</sub>		D.	CH <sub>3</sub> CO	ЭН
13.	рН	value	of pur	e wate	ris -							
A		1	В.	5	C.	7	D.	10				
14.	Bra	ıss is a	n alloy	which	consi	sts of -						
A	•	Сорр	er & Ir	on			В.	Copper & ti	n			
С		Сорр	er & Zi	nc			D.	Aluminium	& Cop <sub>l</sub>	oer		
15.	Baı	uxite is	an or	e of -								
A		Сорр	er	В.	Tin		C.	Iron	D.	Alum	inium	

#### **BIOLOGY**

16. T	16. The heart of a healthy adult normally beats (at rest) :						
A.	120 times/minute	B. 72	-75 time	s/minute			
C.	100 times/minute	D. 20	0 times/	minute			
17.	Persons with what blood gro	up can d	onate blo	ood to perso	ns with	n any blood group ?	
A.	B group B. AB gro	up	C.	A group	D.	O group	
18.	Who gave the theory of surv	ival of fit	test or N	atural select	ion?		
A.	Charles Darwin	B. Ru	ther forc	I			
C.	Pascal	D. Ne	ewton				
19. Which of the following is <u>not true</u> for photosynthesis?							
A.	CO <sub>2</sub> is utilized by plants &	O <sub>2</sub> is rele	eased				
В.	Sun light is essential for p	hotosynt	hesis				
C.	Chlorophyll is required fo	or photos	ynthesis				
D.	CO <sub>2</sub> is emitted by plants d	luring ph	otosynth	esis			
20.	The blood pressure of a healt	hy adult	during n	ormal resting	g condi	tion is expressed as-	
A.	100	В.	120 ו	mm/ 80mm	Hg		
C.	150 mm/ 100mm Hg	D.	98.6	O			
21.	Who is the father of Genetics	s ?					
A.	Gregor Mendel	В.	Char	les Darwin			
C.	Edward Jennar	D.	Louis	s Pasteur			

i. ii. iii. iv. v.	Small Pox Polio COVID -19 TB Cholera									
A.	iii ONLY	B. i,i	i & iii		C. iv	& v	D. ii	i, iv & '	V	
	DIET & NUTRITION									
23.	Goitre is cause	d due	to lack o	of	ir	n the	diet ?			
A.	Iodine		B. I	Iron		C.	Sodium		D.	Potassium
24.	24. Soya bean is a highly rich source of?									
A.	Protein	В.	Fat		C.	Carl	bohydrate		D.	Vitamin C
25.	Sunlight helps	in pro	duction o	of			_ in the body	?		
A.	Vitamin A	В.	Vitamiı	n B	C.	Vita	min C	D.	Vitar	min D
26.	Anaemia is cau	ısed d	ue to def	ficien	ncy of	?				
A.	Calcium	В.	Iron		C.	Vita	min A	D.	Prot	ein
27.	During digestion	on of f	ood, the	ston	nach p	rodu	ces which acid	ł ?		
A.	Hydrochlori	ic acid	E	В.	Sulpl	nuric	acid			
В.	Nitric acid		[	D.	None	e of th	ne above			

Which of the following diseases are caused by virus?

22.

	EN	/IRONN	/IENT A	ND E	COLOGY	
28.	The Green House gases a	re ?				
A.	Carbon dioxide, Metha	ine & Cl	FC	В.	Sulphur dioxide	
C.	Nitrogen		D.	Hydrogen & Helium		
29.	Ozone layer protects eart					
A.	Ultra Violet radiation f	from su	В.	air pollution		
C.	Infra red radiation			D.	Radiation from outer space	
30.	The aim of Chipko movement was					
A.	To conserve water	В.	to pr	otect	& conserve trees	
C.	to protect wildlife	D.	to protect old monuments of historical importance			

#### **HISTORY**

31	i) The first world war started in 1914 and ended in 1918 ii) The second world war started in 1939 and ended in 1945								
	W	/hich of	the abo	ove sta	tement/	s is/are true ?			
	A) i only	/	B) ii	Only		C) i & ii both	D) None of the above		
32		ch the S nders ?	ocial &	Religio	ous refor	m movements o	of the 19 <sup>th</sup> century with their		
	i. Brahm	no Sama	j		a. Swa	ami Vivekanand	a		
	ii. Arya S	Samaj			b. Raj	a Ram Mohan R	oy		
	iii. Ramakrishan Mission			c. Blav	c. Blavesky & Olcott				
	iv. Theosophical Movement				d. Sar	ni Dayanand Sar	raswati		
		:	::	:::	i.,				
	А	i a	ii b	iii c	iv d				
	В	C	a	d	b				
	С	b	d	a	C				
	D	d	С	a	b				
33	. Wh	nen did '	Vellore	revolt	take pla	ce?			
	A) 180	6	B) 1	857					
	C) 194	7	D) 1	.757					
34	. Q	uit India	a Move	ment v	vas laun	ched in			

A) 1942 B) 1945 C) 1857 D) 1947

35.	The 'Noble eight fold path' is taught by ?							
A. Bu	ddha							
B. Ma	havira							
C. Lac	C. Lao-tze							
D. Co	nfucius							
36.	Who built 'Red Fo	rt' at N	lew Delhi 🤅	?				
A.	Akbar	В.	Shahjaha	ın				
C.	Aurangzeb D. Humayun							
37. Bril	37. Brihadishvarar temple at Tanjavur was built by ?							
A.	A. Chola Kings B.			Pandaya Kings				
C.	Pallava Kings	D.	Chera Kin	ngs				
38	led a massive c	ampaiį	gn against	: Ant	ti-Hindi agitation.			
A. E.	V.R B. K. Kamar	aj	C. V.O.C	ſ	D. Subramania Bharathi			
39. WI	no organised and le	d a sal	t Satyagra	ıha n	march to Vedaranyam ?			
A. Ru	ıkumani Lakshmipa	thi	В.	V. R	Ramalingam			
C. Tir	upur Kumaran		D.	Raja	aji			
40. Who	painted world fam	ious pa	ainting 'Mo	ona	Lisa' ?			
A.	Leonardo da Vinci		В.	ſ	Michelangelo			
C.	Raphel		D.	1	None of the above			

		GEOGRAPHY				
41.	India has longest borders with	?				
	A) Pakistan	B) Bangladesh				
	C) China	D) Bhutan				
42.	India and Sri Lanka are separat	ed by a narrow and shallow sea called?				
	A) Arabian sea	B) Palk strait				
	C) Bay of Bengal	D) Indian Ocean				
43.	Which of the following lines passes through India?					
	A) Equator	B) Tropic of Cancer				
	C) Tropic of Capricorn	D) None of the above				
44.	According to 2011 census, the	sex ratio of the country is ?				
	A) 1000 females per 1000 male	s B) 940 females per 1000 males				
	C) 1036 females per 1000 male	s D) None of the above				
45.	Which is the most populous sta	ite in the country ?				
	A) Uttar Pradesh	B) Maharashtra				
	C) Tamil Nadu	D) Rajasthan				
46.	Mettur dam is constructed ove	r the river ?				
	A) Kavery B) Vaigai C) Bh	avani D) Amravathi				

47.	Whicl	n state	in the	countr	y has	highest installation of wind turbines?
	A) An	dhra Pi	radesh			B) Tamil Nadu
	C) Ke	rala				D) West Bengal
48.	i. Elec ii. Det iii. Ma	troit of	capital Asia ter of S	of Indi		<ul><li>a. Bengaluru</li><li>b. Coimbatore</li><li>c. Chennai</li><li>d. Mumbai</li></ul>
	A B C D	i a a d c	ii c b a d	iii b C b	iv d d c b	
49.	Which of the following is true:					ga of south.
		ii & iv o				B) i & iv only D) ii only
50.	Chith	irai Pat	tam is	meant	for sc	owing crops in which month ?
	A) Jar	nuary –	Febru	ary		B) July – August
	C) Ap	ril – Ma	ау			D) November – December

#### **INDIAN POLITY**

51.	When did Indian Constitution come into force ?								
	A) 15 <sup>t</sup>	<sup>h</sup> August, 1947	B) 26 <sup>th</sup> January, 1947						
	C) 15 <sup>t</sup>	<sup>h</sup> August, 1950	D) 26 <sup>th</sup> January, 1950						
52.	Which	n agency is the guardian o	f the constitution ?						
	A) Su	oreme Court of India	B) High Courts						
	C) Par	liament	D) State Assemblies						
53.	Which of the following is true:								
	i)	) Rajya Sabha contains elected representatives of people							
	ii) The term of Lok Sabha is 5 years								
	iii)	Rajya Sabha is a permane	ent house and it cannot be dissolved						
	iv)	The leader of majority pa	arty in Lok Sabha is appointed by the President as the						
		Prime Minister							
	A)	ii, iii & iv							
	B)	i, ii & iii							
	C)	ii & iii							
	D)	iii & iv							
54.	Who attends to the functions of the President of India, when the President is unable to discharge his duties due to illness or absence from the country.								
	A) Pri	me Minister of India	B) Vice President of India						
	C) Chi	ef Justice of India	D) Speaker of Lok sabha						

55.	As per Indian Constitution, who has the power to make laws on the subject of 'Education'?												
	A.	Only State Governments			B.	Only Central Government							
	C.	Both State & Central Gov	rts.		D.	There is no such division of power							
56.	Our N	ational Emblem with four	· lions i	s a rep	lica of	?							
	A) Ashoka Pillar at Sarnath												
B) Images found in Big Temple at Tanjore													
	C) Images found in Shore Temples at Mahabalipuram												
	D) Seals founds in Harappa												
57.	The n	umber of Assembly consti	ituenci	es in T	amil N	adu are ?							
	A) 38	B) 500	C) 250	0	D) 234								
58.	Which	of the following is not a	SAARC	count	ry ?								
	A)	India	B)	Pakist	an								
	C)	Nepal	D)	Englar	nd								
59.	i. Dire	ective Principles are funda	amenta	al for th	ne gov	ernance of the country.							
	ii. Dire	ective Principles are not e	nforce	able by	the c	ourts.							
	Which	of the above statements	are co	orrect ?	P								
	۸.\			<b>D</b> )									
		i. Only		B)	ii. Onl								
	C)	i & ii		D)	None	of the above							

60.		was c	deleted from the li	ted from the list of fundamental right by 44 <sup>th</sup> Amendment									
	cons	titution?											
	A) Ri	ght to equal	ity	B)	Right to P								
	C) Ri	ght to freedo	om	D)	Right agai	nst exploitation	on						
ECONOMICS													
61. What is the total population of India as per 2011 census?													
	A) 12	21 Crores	B) 150 Cro	ores	C) 100 Cro	ores	D) 45 Crores						
62. Which of the following is a direct tax ?													
	A) In	come Tax	В) Е	B) Excise duty									
	C) GS	ST	D) I	) Entertainment Tax									
63.	Whic	ch District in	Tamil Nadu has hi	ghest li	terary rate ?	)							
	A. Dł	narmapuri	B. Kanyakumari	ri C. Chennai D. Nilg									
64.	Whic	ch agency re	gulates the circula	tion of	currency in I	ndia ?							
	A.	State Bank	of India	В.	Union Fin	Union Finance Minister							
	C.	All Nationa	alised Bank	D.	Reserve Bank of India								
65.	India	is an examp	ole of ?										
	A.	Capitalistic	Economy	В.	Socialistic Economy								
	C.	Mixed Eco	nomy	D.	None of the above								

#### **GENERAL KNOWLEDGE & CURRENT AFFAIRS**

66.	Who won the gold medal for India in Tokyo Olympics 2021?											
	A.	Neeraj Chopra							В.	P.V. Sindhu		
	C.	C. Mira bai Chanu							D.	Indian Hockey Team		
67.	Mat	tch	the fo	ollowi	ng:							
			Book					Author				
	i.	W	/ar and	d Peac	ce		i	a.	Jawaharlal Nerhu			
	ii.	N	1y Expe	erime	nts wi	th Trutl	h	b.	o. Dr. A.P.J. Abdul Kalam			
	iii.	iii. Wings of Fire							Leo Tolstoy			
	iv.	Discovery of India						d.	. Mahatma Gandhi			
			i	ii	iii	iv						
	Α	١.	С	d	b	а						
	В	•	а	b	С	d						
	С		а	d	b	С						
	D	١.	d	a	С	b						
68.	Wh	at	is the	numb	er of C	Child He	elplir	ne	?			
	A.		181				В.		1098			
	C. 100/112 D								1091			

69.	India's national carrier, Air India has been officially handed over to by the											
	Government of India ?											
	A.	TATA Group	В.	Reliance Group								
	C.	Aditya Brila Group	D.	TVS Group								
70.	I. A	copy of the FIR can be download	led fro	m the Tamil Nadu Police website.								
	II. Details of Missing persons are available on Tamil Nadu Police website.											
	Which of the above statements is correct ?											
	A. Only I B. Only II											
	C. Bo	oth I & II	D.	None of the above								
71.	Full fo	orm of OTP is										
	A.	On the Passport	В.	One Time Passport								
	C.	Over the Password	D.	One Time Password								
72.	I.			backyard for self consumption.								
	II.	Ramesh (22 yrs old) has marrie	ed a 17	years old girl.								
	Considering relevant provisions of law in India, which of the following statements is correct?											
	A.	Only Mohan has committed of	fence.									
	В.	Only Ramesh has committed o	ffence									
	C.	Both Mohan and Ramesh have	comm	nitted offences								
	D.	None of the above.										

/3.	wno	o is Kamaia Harris ?											
	A.	US Politician											
	В.	Hollywood Actor											
	C.	Sports Person											
	D.	None of the above											
74.	74. In which place, the game of Ball Badminton originated ?												
	A.	Delhi B. Maharashtra											
	C.	Tamil Nadu	de of India										
75	.Which	n of the following is an inc	orrect	pair ?									
		Author Book											
	A.	Ilango Adigal Silappathikaram											
	В.	Sekkizhar	Peri	ya Pur	anam								
	C.	Umarupullavar	Rato	chariye	yatheigam								
	D.	Thiruthakkadevar	Seev	/aga C	hinthamani								
76.	In Pa	ralympics 2020, in which	game l	Mariap	ppan Thangavelu won Silver ?								
	A.	High Jump		В.	Long Jump								
	C.	100 mt Running		D.	400 mt Running								
77.	What	is the height of Thiruvallu	ıvar sta	atue ir	Kaniyakumari ?								
	A.	100 ft		В.	143 ft								
	C.	133 ft		D.	123 ft								

78.	Who is a recipient of Dada Saheb Phalke Award?											
	A.	Kama	ıl Hasa	an		В	•	Rajinikanth				
	C.	C. A.R. Rahaman		D	١.	P. Susila						
79.	Block	chain is ?										
	A. A s	. A software concept						It is concrete blocks connected by chain				
	C. A \	/irus				С	•	A fatal disease				
80.	Match	n the f	ollow	ing:								
		Class	sical D	ance			Pl	lace of Origin				
	i.	Bha	aratan	atyam	1	a.	a. Andhra Pradesh					
	ii.	Kud	chipuc	ik		b.	b. Kerala					
	iii.	Kat	hak			C.	c. Tamil Nadu					
	iv.	Kat	hakali	i		d.	U	Uttar Pradesh				
		i	ii	iii	iv							
	A.	С	d	b	а							
	В.	а	b	С	d							
	C.	а	d	b	С							
	D.	c a d b										

### **ANSWER KEYS**

# to the model questions on

## **General Knowledge**

Q.NO.	Ans	Q.NO.	Ans	Q.NO.	Ans	Q.NO.	Ans
1	Α	21	Α	41	В	61	Α
2	Α	22	В	42	В	62	Α
3	В	23	Α	43	В	63	В
4	С	24	Α	44	В	64	D
5	D	25	D	45	Α	65	С
6	Α	26	В	46	Α	66	Α
7	В	27	Α	47	В	67	Α
8	В	28	Α	48	Α	68	В
9	C	29	Α	49	Α	69	Α
10	Α	30	В	50	C	70	C
11	C	31	C	51	D	71	D
12	В	32	C	52	Α	72	C
13	С	33	Α	53	Α	73	Α
14	С	34	Α	54	В	74	C
15	D	35	Α	55	C	75	C
16	В	36	В	56	Α	76	Α
17	D	37	Α	57	D	77	C
18	Α	38	Α	58	D	78	В
19	D	39	D	59	С	79	Α
20	В	40	Α	60	В	80	D

