# **GROUP 1 EXAMINATION 2011 KEY (A SERIES)**

1)	Am	oebic dysentery is caused by							
	A)	Entamoeba coli	B)	Entamoeba gingivalis					
	<u>C)</u>	Entamoeba histolytica	D)	Amoeba proteus					
2)		nsider the following statements:							
		ertion (A) : Diagrams can be used for compa							
		son (R) : Diagrams cannot study mathema							
	Nov	w select your answer according to the coding scho	eme	given below					
	A)	Both (A) and (R) are true.							
	B)	(A) is true, but (R) is false.							
	C)	(A) is false, but (R) is true.							
	<u>D)</u>	Both (A) and (R) are false.							
3)	Wh	ich of the following is a natural polymer?							
	<u>A)</u>	Cellulose	B)	Polystyrene					
	C)	Polyethylene	D)	Nylon					
4)	The	ground state enery of the electron in the hydroge							
	A)	13.6 eV	B)	6.8 eV					
	C)	4.5eV	<u>D)</u>	3.4eV					
_\	- T-1								
5)		Red Fort at Delhi was constructed by							
	A)	Babur	B)	Akbar					
	C)	Jahangir	<u>D)</u>	Shah Jahan					
	D - 4	6Town in i							
5)		anical name of Turmeric is  Azadirachta indica	D)	IIIh iawa masa sin ansis					
	A)		B)	Hibicus rosa-sinensis					
	<u>C)</u>	Curcuma domestica	D)	Ammania baccifera					
7)	Who is the winner of the Nobel Prize for Peace-2009?								
,,	<b>A</b> )	Barack Obama	B)	Bill Clinton					
	<u>C</u> )	Jimmy Carter	D)	George Bush					
	C)	Jilling Carel	D)	George Bush					
3)	The	Director of Tamil origin who sent Chandrayan t	o spa	ace is					
	A)	Dr.Abdul Kalam	B)	Dr.S ivadhanupillai					
	<u>C)</u>	Dr.Mayilsamy Annadurai	D)	Dr.Kasthuri Rangan					

9)	Seis	Seismic waves are recorded with the help of an instrument known as										
	A)	Earthquake meter	B)	Barometer								
	C)	Hypsometer	<u><b>D</b>)</u>	<u>Seismograph</u>								
10)	Who	o is the current Chairman of the Prime Minister	of In	ndia's Economic Advisory Council (PMEAC)?								
	A)	Nanda n Nileka nki	<u>B)</u>	C.Rangarajan								
	C)	Nirupama Rao	D)	P.Chidambaram								
11)	Con	nsider the following statements.		4								
	I.	There is no direct judicial remedies behind the	Dire	ctive Principles of State Policy in India.								
	II.	There are some direct judicial remedies for the	Dire	ctive Principles of State Policy in India.								
	Oft	hese										
	<u>A)</u>	I alone is correct	B)	I & II are correct								
	C)	II alone is correct	D)	None of these								
12)	The	UPA Government appointed National commis	sion	on Farmers in 2004 under the Chairmanship of								
,	A)	Dr.C.H.Hanumantha Rao	B)	Dr.G.S.Bhalla								
	C)	Dr.A.M.Khusro	<u><b>D</b>)</u>	<u>Dr.M.S.Swaminathan</u>								
13)	The	single membrane surrounding vacuoles in plan	t cell	s is known as								
	A)	Apoplast	B)	Symplast								
	<u>C)</u>	Tonoplast	D)	Chloroplast								
14)	The	doctrine of fundamental right cannot be amen	ded 1	under Art 368 was propounded by the Supreme								
,		urt in which of the following cases?										
	A)	Gopalan vs State of Madras	<b>B</b> )	Keshavanand vs State of Kerala								
	C)	Golaknath vs State of Punjab	D)	Menaka vs Union of India								
	- /		,									
15)	Who	o introduced the 'binomial nomenclature' to na	me or	ganisms?								
	A)	C.Darwin	B)	G.Mendel								
	C)	E. Mayer	<u>D)</u>	<u>C.Linnae us</u>								
16)	The	term 'Brahmadeya' denotes										
	A)	Cash granted to the Brahmanas	B)	Taxes granted to the Brahmanas								
	C)	Land granted to the Brahmanas	<u>D)</u>	Land granted to temples								
17)	Wh	ich one of the following is correctly matched?										
	<u>A)</u>	Dempster's mass spectrograph	-	Masses of isotopes								
	B)	Cathode ray oscilloscope	-	Masses of atom								
	C)	Coolidge tube	-	Solar spectrum								
	D)	Cyclotron	_	Thermal conductivity								

18) The	e famous book "cell biology" was written by		
A)	Odum	<u>B)</u>	<b>De Roberties</b>
C)	Strickberger	D)	Berril
19) Wh	ich of the following is a direct tax?		
A)	Sales tax	B)	Excise duty
C)	Customs duty	<u>D)</u>	None of these
20) Wh	ich one of the following countries is not a m	ember in	ASEAN?
A)	Cambodia	<u>B)</u>	China
C)	Laos	D)	Vietnam
21) Chi	ild marriage was abolished by the Act in		
A)	1960	B)	1965
C)	1970	<b>D</b> )	1975 ***
Chi	ild Marriage Restraint Act 1929, subseque	ently ame	ended in 1978.
ŕ	e bacterial cell wall consists of		
A)	Cellulose	B)	Lignin
<u>C)</u>	<u>Mucopeptide</u>	D)	Pectose
23) The	e system of biological classification used toda	ay was cr	eated by
A)	Charles Darwin	<u>B)</u>	Carolus Linnaeus
C)	Gregor Mendel	D)	Stephen Gould
24) The	e disease diabetes mellitus is caused by the de	eficiency	of
A)	Iodine	<u>B)</u>	<u>Insulin</u>
C)	Vitamins	D)	Proteins
25) Wh	ich one of the following contributes maximu	m share	in nower generation?
A)	Thermal power	B)	Hydropower
C)	Atomic power	D)	Solar power
26) The	a anacific notation if the plane of polarization	n is tumps	d though 26 40 traversing 20 am langth of 200/
	ar solution is	n is turne	d though 26.4°, traversing 20 cm length of 20%
A)	6.6°	B)	0.66°
<u>C)</u>	66°	D)	6°
27) Wo	orld Water Day is observed on	_	
<u>A)</u>	March 22	B)	June 5
C)	September 10	D)	December 22

28) Wh	ich of the following is called the	ne G	anga of South	n Indi	a?
A)	The Pennar			<u>B)</u>	The Kaveri
C)	The Tamiraparani			D)	The Palar
29) Ric	hter scale, a logarithmic scale	o m	easure earthq	uake	was devised by
A)	Mercalli Richter			<u>B)</u>	Charles Richter
C)	Edmund Richter			D)	James Richter
30) Infl	uenza A (H1N1), earlier know	n as	Swine flu wa	s firs	t detected in
A)	Thailand			B)	Costa Rica
<u>C)</u>	Hong Kong			D)	Mexico
31) Sath	nanur Dam is constructed acros	ss w	hich river?		
A)	Kaveri			B)	Vaigai
C)	Palar			<u>D)</u>	<b>Thenpennai</b>
32) Wh	ich one of the following is corn	ectl	y matched?		
(A)	2004 -		nternational ye	ear of	f Fresh Water
B)	2005 -		nternational ye		
<u>C)</u>	2007-09				of planet Earth
D)	2008 -		nternational ye		
ŕ					7
33) Uda	yagiri fort is located in				
<u>A)</u>	<u>Kanniyakuma ri</u>			B)	Tirunelveli
C)	Ramnad		, -	D)	Sivaganga
34) The	Chola dynasty was an ancient	Tar	nil Kingdom a	along	
<u>A)</u>	<u>Kaveri</u>			B)	Krishna
C)	Godavari			D)	Mahanadi
35) Wh	ich one of the following is a m	ajor	source of irri	gatio	n in Tamil Nadu in general?
A)	Canal			B)	Rivers
C)	Tanks			<u>D)</u>	Well
36) Mat	tch List I with List II correctly	and	select your a	nswei	rusing the codes given below:
	List I		List II		
a)	Sankaracharya	1.	Dualism		
b)	Ramanuja	2.	Vira Saivisn	n	
c)	Madhvacharya	3.	Advaita		
d)	Basaveswara	4.	Visistad va ita	a	

#### Codes

a b c d
A 1 3 2 4
B 2 3 1 4

D 4 2 3 1

37) The Indian Independence bill was brought in the House of Commons on

A) 22<sup>nd</sup> June 1947

B) 4<sup>th</sup> June 1947

<u>C)</u> 4<sup>th</sup> July 1947

D) 15<sup>th</sup> August 1947

38) Given the following

Cause of Accident	Fire	Traffic	Falls	Burns	Falling ob jects	Misc
No. of Accidents	10	15	20	15	35	5

The Suitable diagram for the above data is

A) Bar diagram

B) Histogram

C) Pie-diagram

D) Squares

39) The National Population Register is undertaken under

A) Census Act, 1948 & Citizen Rules, 2003

B) Citizenship Act of 1955 & Citizen Rules 2003

C) Census Act, 1948 & Citizenship Act of 1995

D) Citizen Rules, 2003 & IB Act, 1954

40) The table below gives the distribution of the age of women at the time of marriage

Age group (in years)	No. of women				
15 – 19	11				
20 – 24	36				
25 – 29	28				
30 – 34	13				
35 – 39	7				
40 - 44	3				
44 – 49	2				

The given distribution is

A) Not continuous

B) Continuous

C) Cumulative distribution

D) Smoothened distribution

41) In India, life expectancy was considerably improved during the year 1981 to 2001 as

A) 54 years to 65.3 years

B) 50 years to 60 years

C) 51.2 years to 61.3 years

D) 56 years to 66 years

42) Ac	cording to Census 2001, in India the sex	x ratio is	females per 1000, males
A)	945	B)	927
<u>C)</u>	<u>935</u> (Correct answer is 933)	D)	937
43) Wł	nen did the Madras government issue th	e first commur	nal G.O.?
A)	1920	<u>B)</u>	<u>1921</u>
C)	1922	D)	1927
44)	gave the title 'Mahatma' to Gand	lhiji	
A)	Jawaharlal Nehru	B)	Motilal Nehru
<u>C)</u>	Rabindranath Tagore	D)	Subhash Chandra Bose
45) W/I	o among the following recommended	d the establish	nment of the National commission for Higher
	ucation and Research (NCHER)?	a the establish	intent of the National Commission for Higher
	Prof. Yash pal	B)	Minister Kapil Sibal
C)	Prime Minister Manmohan Singh	D)	Minister Pranab Mukherjee
,	Č	,	
46) Phy	vsical Research Laboratory is located at	-	
<u>A)</u>	Ahme da ba d	B)	Bangalore
C)	Kalpakkam	D)	Pune
. <b>.</b> . ~			
	nsider the following statements:		7
	sertion (A) : Classification is the ba		
	ason (R) : First the data are class	, ,	
	w select your answer according to the c	oding scheme	given below
<u>A)</u>	Both (A) and (R) are true.		
B)	(A) is true, but (R) is false.		
C)	(A) is false, but (R) is true.		
D)	Both (A) and (R) are false.		
48) Wł	nich one of the following is correctly ma	atched?	
<u>A)</u>	<u>Tropos phere</u> -	Lowest lay	er of the atmosphere.
B)	Stratosphere -	Third layer	of the atmosphere.
C)	Mesosphere -	30 km abov	e the earth surface.
D)	Thermosphere -	50 km abov	e the earth surface.
49) Pre	-history of India can be dated back to		
A)	500000 B.C.	B)	50000 B.C.
<u>C</u> )	5000 B.C.	D)	1000 B.C.

50) The	e Allahabad pillar inscription was composed by		
A)	Kalidasa	<u>B)</u>	Samudragupta
C)	<u>Harisena</u>	D)	Visakhadatta
51) A g	great exponent of Mahayanism was		
A)	Dharmakirti	B)	Dingnaga
C)	Vasubandhu Asanga	<u>D)</u>	<u>Nagarjuna</u>
52) Lat	eritic soils are formed under conditions of		
<u>A)</u>	High temperature and rainfall	B)	Low temperature and rainfall
C)	Medium temperature and low rainfall	D)	Low rainfall and high temperature
53) Wh	o among the following scientists got the Nobel	Priz	e for discovering the concept of jumping general
(or)	transposons?		
A)	Jacob and Monad	B)	Beadle and Tatum
C)	Hargobind Khorana	<u>D)</u>	Barbara McClintock.
54) To	which neighbouring country does India share the	e long	gest land border?
A)	Pakistan	B)	Nepal
C)	China	<u>D)</u>	Bangladesh
55) The	e uncertainty principle was proposed by		7
A)	De Broglie	B)	Maxwell
C)	Thomson	<u>D)</u>	<u>Heisenberg</u>
56) Rec	ently Bicentenary birth anniversary was carried	out f	or
A)	Gregor Johann Mendel	<u>B)</u>	<b>Charles Darwin</b>
C)	Louis Pasteur	D)	Alexander Flemming
57) The	e toxic carcinogenic metal ion in the following is		
A)	Cro	B)	$Cr^{3+}$
C)	Cr <sup>2+</sup>	<u>D)</u>	<u>Cr<sup>6+</sup></u>
58) Co	nsider the following statements:		
Ass	ertion (A) : The floods can be reduced by co	onstri	action of dams and reservoirs
Rea	son (R) : Dams have the capacity of hold	ing h	uge quantity of water during flood period
No	w select your answer according to the coding sch	neme	given below
<u>A)</u>	Both (A) and (R) are true.		
B)	(A) is true, but (R) is false.		
C)	(A) is false, but (R) is true.		

D) Both (A) and (R) are false.

59) Vei	nturimeter is used to measure		
<u>A)</u>	Fluid velocity	B)	Fluid surface tension
C)	Fluid temperature	D)	Fluid density
60) Poo	ondi Reservoir was planned to provide water to	o Madra	as by
<u>A)</u>	Sathyamurthy Iyer	B)	Nadesa Mudaliar
C)	Ramasamy Reddiar	D)	P.S.Kumarasamy
61) Ma	rks obtained by 7 students in Computer Scier	ice are	45, 40, 63, 93, 65, 55. The median value for the
data	a is		
A)	90	<u>B)</u>	<u>60</u>
C)	80	D)	55
62) The	e experiment to measure de Brogile wavelengt	h was fi	irst carried out by
A)	Rutherford	B)	Bohr
<u>C)</u>	<u>Davisson-Germer</u>	D)	Albert Einstein
63) Wh	ich of the following gases accounts for the ma	ximum	of the atmosphere?
A)	Hydrogen	B)	Oxygen
C)	Water Vapour	<u>D)</u>	Nitrogen
64) 1 k	B memory is		7
A)	1000 bytes	<u>B)</u>	2 <sup>10</sup> bytes
C)	10 <sup>6</sup> bytes	D)	10 <sup>4</sup> bytes
65) An	example of polycarpic plant is		
<u>A)</u>	Pea *** (Doubt)	B)	Mango
C)	Bamboo	D)	Pigeon Pea
66) Wh	ich is the largest public sector bank in India?		
(A)	Indian Bank	B)	Indian Overseas Bank
C)	Canara Bank	<u>D)</u>	State Bank of India
67) The	e shore temple at Mamallapuram was built by		
A)	Narasimha varman I	B)	Mahendra varman I
C)	Parameswaravarman I	<u>D)</u>	Narasimhavarman II
68) Wh	o is the Chairman of National Biodiversity Au	uthority'	?
A)	R.L. Joshi	B)	A.Ganguly
C)	P.L.Gautam	D)	None of them

69) The	first 'S	Speci	al Ec	onomic 2	Zone'	cre	ated in 7	Tamil N	Vadi	u is in
A)	Coiml	bator	e					]	<u>B)</u>	<u>Chennai</u>
C)	Madu	rai						]	D)	Salem
70) Whi	ch is c	orrec	t witl	n regard	to Inc	dia's	Foreign	Policy	y?	
A)	Promo	otion	of we	orld peac	ee			]	B)	Non-alignment
C)	Panch	ashe	el					]	<u>D)</u>	All of these
71) The	'Speci	al Ec	onon	nic Zone	Act	was	passed i	n India	Pai	rliament in
<u>A)</u>	May 2	<u> 2005</u>						]	B)	April 2005
C)	May 2	2008						I	D)	April 2007
72) The	earlies	st bric	ck ter	nple in I	ndia v	vas İ	built by			
A)	Maury	yas						]	B)	Sungas
C)	Vijaya	angar	as					]	<u>D)</u>	Guptas
73) On	which	of the	e follo	owing gr	ound	s a e	lected N	IP can	be o	disqualified for defection?
I.	If vol	luntaı	rily g	ives up 1	nemb	ersh	ip of po	litical p	part	y.
II.	If the	vote	s or a	bstains	from	voti	ng contra	ary to t	he c	direction of his political party.
III.	-		-	nis party.						
IV.	If he	joins	some	e other p	o litic	al pa	rty othe	r than o	one	from where he won
Oft	hese								-	7
A)	I, II, I		IV					ļ	<u>B)</u>	<u>I, II &amp; IV</u>
C)	I, III &	& IV	4\					I	D)	II, III & IV
74) Mat	ch List	I wi	th Lis	st II corr	ectly	and	select yo	our ans	wer	using the codes given below:
	List I						List II			
a)	Nana	Sahi	b		7/	1.	Partitio	n of Be	enga	al
b)	Vello	re M	utiny		<b>7</b> /	2.	1947			
c)	Lord	Curz	on			3.	1806			
d)	India	n Ind	e pe no	dence A	et	4.	1857 R	evolt		
Cod	les									
	a	b	c	d						
<u>A</u>	<u>4</u>	<u>3</u>	<u>1</u>	<u>2</u>						
В	1	3	2	4						
C	1	2	3	4						
D	3	4	1	2						
75) The	first st	ate ir	n Indi	a to intro	oduce	ins	urance s	cheme	for	State Government Employees was

D) Kerala

B) Maharashtra \*\*\*\* (Doubt)

A) Andhra Prade sh

C) Tamil Nadu

76) The	Pandyan king who consolidated and expanded t	the Pa	andya Kingdom up to ka veri was
A)	Senda n Cheliya n	<u>B)</u>	Sundara Pandyan
C)	Koon Pandyan	D)	Kadunkon
77) The	first ruler of the Chola dynasty who kept strong	navy	v was
A)	Rajaraja the Great	<u>B)</u>	Rajendra I
C)	Rajadhiraja I	D)	Rajendra II
78) Nat	ional Emergency was declared by the Congress	Gove	rnment headed by Indira Gandhi in
A)	1969	B)	1971
<u>C)</u>	<u>1975</u>	D)	1977
79) Wh	ich one of the following is not a salient feature o	f the	Constitution of India?
<u>A)</u>	<b>Directive Principles of State Policy</b>	B)	Flexible constitution
C)	Secularism	D)	Single citizenship
80) Wh	ich organelle in the cell, other than nucleus conta	ains I	DNA?
A)	Golgi body	<u>B)</u>	Mitocho ndria
C)	Lysosome	D)	Centriole
81) Hov	w many electrons can be accommodated in d-or	bital?	
A)	3	B)	6
<u>C)</u>	10	D)	8
00) 0			
ŕ	e tesla is	<b></b>	*** 1
A)	amp – m²	B)	Weber
C)	Ampere turns – m <sup>-1</sup>	<u>D)</u>	$\underline{\text{Weber} - \text{m}^{-2}}$
83) Wh	ich state has the lowest level of literacy?		
A)	Uttar Pradesh	<u>B)</u>	<u>Bihar</u>
C)	Rajasthan	D)	Madhya Pradesh
84) On	which of the following grounds a elected MP ca	n be o	disqualified for defection?
I.	Directive Principles of State Policy is consider	red as	the soul of the constitution.
II.	Directive Principles of State Policy is meant for	or pro	etection of rights.
III.	Directive Principles of State Policy is crucial f	or co	nstitutional remedies.
IV.	Directive Principle of State Policy is relevant	for pr	omotion of private property.
Of	these		
A)	I alone is correct	<u>B)</u>	II & III are correct
C)	III & IV are correct	D)	IV alone is correct

- 85) Relative frequency is defined as
  - A) Total frequency

    Class frequency

B) Class frequency
Total frequency

C) Class frequency

D) None of these

\_\_\_\_\_ X 100

Total frequency

- 86) The National calendar based on the Saka Era was adopted from
  - A) 22<sup>nd</sup> March, 1950

B) 1<sup>st</sup> January, 1950

<u>C)</u> 22<sup>nd</sup> march, 1957

D) 22<sup>nd</sup> August, 1952

87) Consider the following statements:

Assertion (A) : Vira Pandya Kattabomman was captured and handed over to the British by

Vijayaragunatha Tondaiman, Raja of Pudukottai.

Reason (R) : He was a friend of the British.

Now select your answer according to the coding scheme given below

A) Both (A) and (R) are true.

- B) (A) is true, but (R) is false.
- C) (A) is false, but (R) is true.
- D) Both (A) and (R) are false.
- 88) Who appoints Finance Commission in India?
  - A) The President of India

B) The Prime Minister

- C) The Chairman of the Rajya Sabha
- D) The Speaker of the Lok Sabha
- 89) Botanical Survey of Idnia is located in Tamil Nadu at
  - A) Chennai

B) Madurai

C) Coimbatore

- D) Salem
- 90) Data which are not collected by the organization for the specified purpose, is known as
  - A) Primary data

B) Secondary data

C) Categorical data

- D) Quantitative data
- 91) Find out the mission observation of the following data with mean 5

2, 6, 5, 3, 8, 2, \_ , 9, 7, 7, 6, 4

A) 3

B) 2

<u>C) 1</u>

- D) 0
- 92) The extent of rural electrification done in Tamil Nadu is

A) 50%

B) 75%

C) 99%

D) 80%

93) Wh	ich one of the following is correctly matched?		
A)	Pars vanath	-	Twenty fourth Tirthankara
<u>B)</u>	<u>Mahavira</u>	-	<u>Last Tirthankara</u>
C)	Jatakas	-	Jain literature
D)	Agama Sidd hanta	-	Buddhist literature
94) Wh	ich of the following dates was assigned to the Ir	ndus o	civilization by Sir John Marshall?
<u>A)</u>	<u>3250 – 2750 B.C.</u>	B)	3500 – 3000 B.C.
C)	3000 – 2550 B.C.	D)	3000 – 2000 B.C.
95) The	e Aryans had popular Assemblies, Sabhas and Sa	amiti	s to check
<u>A)</u>	On the power of the King	B)	On the power of Purohita
C)	On the power of the Army Chief	D)	On the power of Village head.
96) Wh	ich one among the following is incorrect?		
(A)	E.V.Ramaswamy	_	Anti-caste, Anti-religion
B)	C.N.Annadurai	_	Anti-imperialist, Pro-nationalist
C)	M.Karunanidhi	_	Anti-imperialist, Pro-nationalist and Writer
<u>D)</u>	C.Rajagopalachari	-	Anti-Brahmin, Anti-North and Anti-Aryan
97) Wh	ich is the longest river in Tamilnadu		
A)	Vaigai	<u>B)</u>	Kave ri
C)	Palar	D)	Pennar
98) Mu	llai Periyar dispute is between Tamil Nadu and		
A)	Karnataka	B)	Andhra Pradesh
<u>C)</u>	<u>Kerala</u>	D)	Orissa
99) Ma	hatma Gandhi suspended the Non-co-operation	mo ve	ement due to Chauri Chaura incident in the year
A)	1920	B)	1921
<u>C)</u>	<u>1922</u>	D)	1923
100) A	according to the year 2000-2001 in India, the ma	jor ir	rigation sources are in the order of
A)	Canals, Wells, Tubewells, Tanks	<u>B)</u>	Well, Tube wells, Tanks, Canals,
C)	Tanks, Canals, Wells, Tubewells	D)	Canals, Wells, Tanks, Tubewells
***	** The correct order is : well, canals, Tank		

SHANKAR IAS ACADEMY Match List I with List II correctly and select your answer using the codes given below: 101) List I List II a) TIFR 1. Thiruvananthapuram b) Space Physics Laboratory 2. Bengaluru c) SHAR Centre 3. Mumbai d) ISRO satellite centre 4. Sriharikota Codes a b d 3 1 2 2 В 1 4  $\mathbf{C}$ 2 3 4 1 D 2 3 1 102) The last cens us was undertaken in A) 1991 2000 B) <u>C)</u> 2011 D) 2001 103) The scope of land reforms does not include A) Abolition of intermediaries B) Consolidation of land holdings C) Cooperative farming House loans to farmers 104) Captain Lakshmi, the only woman representative in the Independent Madras Province ministry was? I. Daughter of Ammu Saminathan, a patriot Captain of Jhansi military wing II. III. Educated in England IV. Leader of Indian National Army Of these A) I alone B) I & II D) III & IV I & IV 105) A galaxy is a huge mass of A) Water, Air, Land B) Stars, Nebula and Interstellar material C) Isostasy, Continents, Terrains D) Pluto, Stratocones and Cordillera

106) A shopkeeper marks his goods to gain 30%. But he allows 10% discount for down cash payment. His profit per cent is

A) 20%

B) 17%

C) 15%

D) 13%

pie

107) Ft	inction(s) of statistics is/are		
A)	Collection of data	B)	Compilation and tabulation of data
C)	Analysis of data	<u>D)</u>	All of these
100\ID1	DD was introduced in the weer		
	DP was introduced in the year	D)	1070 90
<u>A)</u>	<u>1978-79</u>	B)	1979-80
C)	1980-81	D)	1981-82
109)Th	e total expenditure of a family is Rs.1,080 and t	hey a	re spending Rs.450, for food. Then to draw a
dia	gram the degree value is		
A)	1350	B)	864
<u>C)</u>	<u>150</u>	D)	100
110)	Match List I with List II correctly and select you	ur ans	swer using the codes given below:
	List I I	List II	
a)	Chera 1. Bull		
b)	Chola 2. Fish		
c)	Pandya 3. Bow & Arro	W	
d)	Pallava 4. Tiger		
Coc	les		
	a b c D		
A	4 3 1 2		7
<u>B</u>	3 4 2 1		
C	3 1 4 2		
D	2 1 4 3		
111)Th	e institution(s) which is/are set up to promote fu	nding	g of voluntary organizations is/are
A)	Khadi and Village Industries Corporation	B)	People's Action Development India
<u>C)</u>	Council for Advancement of People's	D)	All of these
	Action and Rural Technology		
112)Tir	rupur kumaran died in the year		
A)	1930	<u>B)</u>	<u>1932</u>
C)	1933	D)	1934
113)Ka	nchipuram Kailasanatha temple was built during	g the	reign of
A)	Mahendravaraman	B)	Ranga Pataka
<u>C)</u>	<u>Rajasimha</u>	D)	Narasimha I

114) W	men one of the following supplements the drink	ıng w	ater needs of Chennal?
<u>A)</u>	Krishna river water	B)	Thamiraparani river water
C)	Goda vari river water	D)	Siruvani river water
115)W	hich of the following structures is involved in th	e pro	cess of photo-respiration?
A)	Lysosome	B)	Golgi body
<u>C)</u>	Peroxisome	D)	Ribosome
116)Vi	sceral arches support		4
<u>A)</u>	Wall of the pharynx	B)	Viscera
C)	Operculum	D)	Gill filament
117)Th	e laws of electrolysis are given by		
A)	Ostwald	<u>B)</u>	<u>Faraday</u>
C)	Arrhenius	D)	Lewis
118)To	tal geographical area of Tamil Nadu is		
A)	1,30,955 sq. km	<u>B)</u>	1,30,058 sq. km
C)	1,28,055 sq. km	D)	1,40,033 sq. km
119)Ek	ectromagnetic waves were proposed by		
A)	Newton	<u>B)</u>	Maxwell
C)	Huygens	D)	Planck
120)	Consider the following statements:		
Ass	ertion (A) : Regional disparities in develop	ment	have been continuously decreasing in India due
	to planning.		
Rea	son (R) : New technology in Indian agric	ultur	e is size neutral but not resource neutral.
No	w select your answer according to the coding scl	heme	given below
A)	Both (A) and (R) are true.		
<u>B)</u>	(A) is true, but (R) is false. *** Doubt		
C)	(A) is false, but (R) is true.		
D)	Both (A) and (R) are false.		
121)Th	ne packing fraction of a face centred cubic lattice	is	
A)	36%	B)	52%
C)	68%	<u>D)</u>	<u>74%</u>
122)Th	ne ocean floor is a flat plain known as the		
<b>A</b> )	Abyssal plain	B)	Abyssal hills
<u>C</u> )	Fringing reef	D)	Barrier reef

123) In mitochondria, which of the following process/es take(s) places?

A) Tricarboxylic acid cycle

B) Electro transport system and oxidative phosphorylation

C) B-oxidation of fatty acid

**D)** All of these

124) India is a member of which of the following?

A) Asian Development Bank

B) Asia-pacific Economic Corporation

C) Colombo Plan

- D) Organisation for Economic Co-operation and Development
- 125) Consider the following statements:

Assertion (A) : If no-confidence motion is passed against a minister then all ministers should resign.

Reason (R) : Only the concerned minister resigns

Now select your answer according to the coding scheme given below

- A) Both (A) and (R) are true.
- B) (A) is true, but (R) is false.
- (A) is false, but (R) is true.
- D) Both (A) and (R) are false.

126)Synapse is seen in

A) Nervous system

B) Digestive system

C) Excretor y system

D) Reproductive system

127) Ammonia burnt with O2, liberate which of the following ions/radicals?

A)  $NH_4^+ + OH^-$ 

B)  $N_2 + H_2O$ 

 $\mathbf{C}$ )  $\mathbf{NO}_2 + \mathbf{H}_2\mathbf{O}$ 

D)  $N_2 + H_2$ 

128) In which year was the Namakkal District formulated?

A) 1987

B) 2007

C) 1997

D) 1977

129)In which of the following places was the first telegraph line of India set up?

- A) Kolkata and Diamond Harbour
- B) Kolkata and New Delhi

C) Chennai and Mumbai

D) Kolkata and Chennai

130) A graph of a cumulative frequency distribution is called

A) Ogive

B) Frequency polygon

C) Frequency curve

D) Pie diagram

131)WI	nen th	ne pol	arizing	gangle	for a dea	nse	flint gla	ss is 60	°3(	0, then its refractive index is
A)	1.33	3						В	)	1.541
<u>C)</u>	<u>1.62</u>	<u>7</u>						D	)	1.768
	_		norse f		10,000 a	nd	sold it t	to B at	10	0% profit and B sold it to C at 10% loss. The
A)	Rs.1	0,000	)					<u>B</u>	)	<u>Rs.9,900</u>
C)	Rs.9	,999						D	)	Rs.11,000
133)On	e byte	e cons	sists o	f						
A)	2 bit	S						В	)	4 bits
C)	6 bit	ts						D	<u>)</u>	8 bits
134)Wl	nere d	lo we	have l	Rapid 7	Transit S	yst	em in Ta	mil Na	du	
A)	Sale	m						В	)	Trichy
<u>C)</u>	<u>Che</u>	<u>nnai</u>						D	)	Thanjavur
135)En	dot he	cium	and e	ndothel	ium are	str	uctures a	ssoc iate	ed	
<u>A)</u>				te gu me				В	_	Anther and Nucellus
C)	Integ	gumeı	nt and	Anther				D	)	Anther and Ovary wall
136)Wl	nich o	ne of	the fo	llowing	g comme	erci	ial crops	is culti	vat	ed in large area in Tamil Nadu?
<u>A)</u>	Gro	undn	<u>ut</u>					В	)	Gingili
C)	Suga	arcane						D	))	Cotton
137)	Matc	h List			correct	ly a	and selec			wer using the codes given below:
a)	Agu	ua cul	List	I	<b>4</b> ).	1.	Silk	List	II	
b)	•	riculti				2.	Grapes			
c)		icultu				2. 3.	Flower			
d)		cultu					Fish			
Cod		Cartai				••	1 1511			
000	a	b	c	d						
A	1	2	3	4						
В	3	2	1	4						
C	4	1	3	2						
<u>D</u>	<u>4</u>	<u>3</u>	<u>1</u>	<u>2</u>						
138)	••••	Sta	ate of	Indian	Union h	as i	its own c	onstitut	io	n
	Punj		3.					В		Arunachal Pradesh

D) Jammu and Kashmir

C) Sikk im

139)In	which districts do the Toda tribes of the following	ng liv	e?
A)	Salem	<u>B)</u>	<u>Udagamandalam</u>
C)	Dharmapuri	D)	Kanniyakumari
140)In	which hill is the Killyur waterfall located?		
<u>A)</u>	Sherva roy	B)	Niligiris
C)	Kodaikanal	D)	Agathiyar
141)W	hat is the name of the famous Indian painter who	wer	nt on self-exile?
A)	Gurcharan Das	B)	Bhagwan Das
C)	Shyamala	<u>D)</u>	M.F.Hussain
142)Ar	mmonotelism is common in		
<u>A)</u>	<u>Fishes</u>	B)	Birds
C)	Mammals	D)	Reptiles
143)Du	ring electrolysis of molten calcium hydride		
A)	Calcium is deposited at anode	<u>B)</u>	Hydrogen is liberated at anode (Doubt)
C)	Hydrogen is liberated at cathode	D)	Hydrogen and oxygen are liberated at cathode
			and anode respectively
144)WI	hen there is increase in economic developmen	nt the	e share of tertiary (service) sector in National
Inc	come will		
<u>A)</u>	Increase	B)	Decrease
C)	Remain constant	D)	Remain proportional
145)WI	ho was not the member of the first National Inco	me C	Committee of 1949?
A)	P.C.Mahalanobis	B)	D.R.Gadgil
<u>C)</u>	<u>Dadabhai Naoroji</u>	D)	V.K.R.V.Rao
146)Th	e lasing material in Ruby laser is		
A)	$Al_2O^3$	B)	$Ni^{2+}$
C)	$V^{3+}$	<u><b>D</b>)</u>	$\underline{Cr^{3+}}$
147)Lo	ngitudinal half of the chromosome is called		
A)	Centromere	<u>B)</u>	<b>Chromatid</b>
C)	Chromatin	D)	None of these
148) Tł	ne term 'gene' was proposed by		
A)	Bateson	B)	Punnet
C)	Darlington	<u>D</u> )	<u>Johannsen</u>

149)If A 
$$\begin{pmatrix} 1 & 4 \\ 2 & -1 \end{pmatrix}$$
,  $f(x) = x^2 - 9$ , then  $f(A)$  is

A)  $\begin{pmatrix} -8 & 5 \\ -5 & -8 \end{pmatrix}$ 

$$\frac{\mathbf{B})}{\mathbf{0}} \begin{pmatrix} \mathbf{0} & \mathbf{0} \\ \mathbf{0} & \mathbf{0} \end{pmatrix}$$

D) 1

150) Aqueous solution of which of the following is a good conductor of electricity?

A) Ammonium acetate

B) Glucose

C) Ammonia

D) Acetic acid

(0.0104-0.002) of  $0.12 + 0.36 \times 0.002$ 

151) What is the value of

0.12 X 0.12

A) 0.1001

B) 0.1101

<u>C)</u> <u>0.12</u>

D) 0.13

152) As per the division of powers of India, in the concurrent list there are

<u>A)</u> <u>47 items</u>

B) 66 items

C) 97 items

D) 77 items

153) Tuberculosis immunization was developed by

A) Albert Calmette

B) Paul Ehrlich

C) Robert Koch

D) Louis Pasteur

154) Cricketer Brian Lara belongs to which country?

A) India

**B)** West Indies

C) England

D) Australia

155) Where are the typhoons usually found?

A) East Pacific

B) West pacific

C) Black Sea

D) Red Sea

156) Who among the following Europeans were the first to come to India and leave India last?

**A)** The Portuguese

B) The French

C) The English

D) The Dutch

157) The largest planet in the solar system is

A) Earth

B) Jupiter

C) Saturn

D) Venus

158) If the total energy of a particle is thrice its rest energy, then the velocity of the particle is, (c = velocity of light)

A) <u>C</u>

B) <u>2c</u>

 $\frac{C)}{3} \quad \frac{2\sqrt{2} c}{3}$ 

D)  $\frac{\sqrt{2} \text{ c}}{3}$ 

159) Which of the following is not recycled in an eco-system?

A) Water

B) Carbon

C) Nitrogen

D) Energy

160) Consider the following statements:

Assertion (A) : Vitamin K deficiency leads to haemorrhage

Reason (R) : Folic acid deficiency leads to Anaemia

Now select your answer according to the coding scheme given below

- A) Both (A) and (R) are true.
- B) (A) is true, but (R) is false.
- C) (A) is false, but (R) is true.
- D) Both (A) and (R) are false.

161) Whisky and Brandy contain

A) 80-90%

B) 25-30%

<u>C)</u> 40-50%

D) 4-12%

162) Reservation was provided to women in Government services by

A) Jayalalitha

B) M.G.Ramachandran

C) Rajaji

D) M.Karuna nidhi

163) Which Mughal emperor was defeated by Sher Shah?

A) Babur

B) Humayun

C) Jahangir

D) Aurangzeb

164)Delhi High Court allowed plea of gay rights activists and legalized gay sex in

A) 2006

B) 2007

C) 2008

**D)** 2009

165)Ex	istence of a League of Tamil states is referred in	the	
A)	Girnar inscription	<u>B)</u>	Hat higumpha inscription of Kharave la
C)	Jambal inscription	D)	Sannati inscription
166)WI	hich guarantees right to freedom of religion to al	l pers	sons in all its aspects?
<u>A)</u>	Articles 25 to 28	B)	Article 29
C)	Article 30	D)	Article 34
167)Wl	hich one of the following sectors is the major	conti	ributor(s) to Tamil Nadu state's gross domestic
pro	oduct?		
A)	Agriculture & allied sectors	B)	Secondary sector
<u>C)</u>	Service Sector	D)	Informal sector
168)Th	e first Mughal emperor to show interest in paint	ing w	vas
A)	Akbar	B)	Humayun
C)	Shah Jahan	<u>D)</u>	Babur
169)In	which year was the 'Dyarchy' introduced?		
<u>A)</u>	<u>1919</u>	B)	1909
C)	1935	D)	1947
170) 'B	huvan' the new web based mapping of earth was	deve	eloped by
A)	NASA	<u>B)</u>	ISRO
C)	ESA	D)	Russia
171)W	hich is the name of Tamil Nadu state bird?		
A)	Peacock	<u>B)</u>	Emerald Dove
C)	Parrot	D)	Kuyil
172)Th	e Queen who took the lead in the South Indian F	Rebe I	lion was
A)	Jakkamma	B)	Vellai Natchiyar
C)	Muthayee Ammal	<u>D)</u>	<u>Velu Natchiya r</u>
	O.Chidambaram Pillai founded the Swadeshi	Stea	am Navigation Company to operate between
		D)	Cin con a ra
A)	Mauritius Sei Landa	B)	Singapore
<u>C)</u>	<u>Sri Lanka</u>	D)	Malaysia
174)W	hich of the following is a feature of Tamil Nadu	econ	omy?
A)	High rural-urban migration	B)	Low man-farm employment
<u>C)</u>	High urbanization	D)	Low Urbanisation

175)Th	ne resolving power of a telescope is highest for		
<u>A)</u>	Blue Light	B)	Green light
C)	Yellow light	D)	Red light
176)A	time series graph is also known as		
<u>A)</u>	Bar diagram	B)	Frequency polygon
C)	Histogram	D)	Ogive
177)Th	ne 73 <sup>rd</sup> constitutional Amendment Act was passed	d dur	ing the period of
A)	Rajiv Gandhi	B)	A.B. Vajpayee
C)	V.P.Singh	<u>D)</u>	Narasimha Rao
178)Sk	reletal soils are found in		
A)	Vindhyan sandstones and Ladak shales	B)	South Western Rajasthan and Cudda pah region
C)	Telangana, Coastal Tamil Nadu and Kongu	D)	Bankura, Medinipur and Pargana areas
9)	region	_,	
179)Th	ne two major cities of Indus Valley Civilisation re	eveal	ing uniform urban planning were
A)	Mohenjodaro and Chanhudaro	B)	Mohenjodaro and Lothal
C)	Mohenjodaro and Dholavira	<u>D)</u>	Mohenjodaro and Harappa
180)Sh	ri Sundarlal Bahuguna received aw	ard	
<b>A</b> )	Padma B hushan	B)	Padma Vibhushan
C)	Padma Sri	D)	Oscar
181)Gr	rants-in-aid to the states by the Centre are provide	ed w	ith the objective of
,	Augmenting financial resources of the states	B)	·
C)	Ensuring stable government at the centre	D)	All of these
182)In	which year seats were reserved for women in loc	cal bo	odies in Tamil Nadu?
A)	1991	B)	1951
<u>C)</u>	<u>1994</u>	D)	2010
183)W	hat is/are the recent tension between India		
A)	China's proposed dam on Brahmaputra	B)	PM's visit to Arunachal Pradesh
C)	China recently tried to block an ADB loan	<u>D)</u>	All of these
184)Th	ne longest solar eclipse of the 21st Century occurr	ed o	n
A)	July 29, 2009	B)	July 18, 2009
<b>C</b> )	July 22, 2009	D)	June 22, 2009

185)Qu	ıtb udd	in Ai	bak w	as a slave of				
A)	Muiz	zzudd	in				<u>B)</u>	Muhammad of Ghur
C)	Moh	amma	ad of	Ghazni		]	D)	Khwarizm Shah
186)Ide	entify	the co	orrect	order in which the	y occi	urred in I	[ndi	a
A)	Quit	Inc	lia :	movement, Non-	coope	ration	B)	Civil disobedience movement, Khilafat
	mov	emen	t, I	Khilafat movem	ent,	Civil		movement, Quit India movement, Non
	disol	bedie	nce m	ovement				coope ration movement
<u>C)</u>	<b>Khil</b>	afat	mo	ovement, Non-c	o ope i	ration	D)	Non-cooperation movement, Quit India
	mov	<u>e me n</u>	ıt, Ci	vil disobedience	move	<u>ment,</u>		movement, Khilafat movement, Civil
	Quit	Indi	a mo	<u>vement</u>				disobedience movement
187)Sta	andard	l devi	ation	of a set of 50 obse	rvatio	ns is 6.5.	. If	value of each observation is increased by 5, then
the	stand	lard d	eviati	ion is				
A)	2.5						B)	1.5
C)	3.5					]	D)	1.0
No	New	devi	ation	will occur. There	is no	ans wer		
					11			
188)Th	e defi	cienc	y of N	Molybdenum, a trac	e eler	nent pres	sent	in the soil, causes
A)	Red	fort o	fsuga	arcane			<u>B)</u>	Whiptall disease of Cauliflower
C)	Whit	te rus	t disea	ase of Amaranthus			D)	Black trust disease of wheat
							-	7
189)Th	e mos	t don	nina nt	contributor to GD	P in re	ecent year	ırs i	S
A)	Agri	cultu	re				B)	Industry
<u>C)</u>	Serv	ices					D)	Exports
190)Ta	milna	du is	a mai	or producer of				
A)		lower		or producer or			B)	Onion
C)	Cotto						<b>D</b> )	Suga rca ne
,			I wit	h List II correctly a	and sel			wer using the codes given below:
1)1)	1,10,00	1		ist I				List II
a)	Salt	Satva			1.	Dr.Mut	thul	akshmi Reddy
b)								·
c)				tyagraha	3.		•	anga Iyengar
d)		Hind			4.	Vedara		~ · ·
Coc	des						٠	
	a	b	c	d				
A	4	1	3	2				
<u>B</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>				
C	1	3	2	4				

D 3

2

4

1

192) National Remote Sensing Centre is located at

A) Hyderabad

B) Chennai

C) Bangalore

D) New Delhi

193) Which one of the Assembly by-elections saw the highest voter turnout during 2010 in Tamil Nadu?

A) Thirumangalam

B) Thirupatthur

C) Pennagaram

D) Ponneri

Voter Turnout:

Thirumangalam: 88.89%, Pennagaram: 84.95%

194) The World Classical Tamil Conference held on July 2010 is

- A) Sixth World Tamil Conference
- B) Seventh World Tamil Conference
- C) Ninth World Tamil Conference
- D) Tenth World Tamil Conference

195. Which Article of the Constitution of India gives provision to set up village panchayats

A) Article 15

B) Article 25

C) Article 243

D) Article 42

196. Which one of the following is not correctly matched?

A) Surjit singh Barnala

- Chancellor of Universities of TamilNadu

B) Fakruddin Ali Ahmed

- Former President of India

C) A.P.J. Abdul Kalam

Wings of Fire

D) Medha Patkar

- Indian representative in the UNO

197. Who laid the foundation of the British Empire?

A) Robert Clive

B) Lord Napier

C) Lord Ripon

D) Lord Cornwallis

198.  $f(x) = \frac{1}{x^2}$  and g(x) = e-9x then (fog) (x) is

A) 1

<u>B)</u> 1

C) <u>1</u>

D)  $\frac{1}{e^{18x^2}}$ 

199. Under Public Distribution System, rice is distributed at the rate of Re.1 per kg in

A) Orissa

B) West Bengal

C) Kerala

D) Tamil Nadu

200. The National Rural Employment Guaranteed Programme came into force to provide 100 days of employment in

A) 2003

B) 2004

C) 2006

D) 2002