

SCIENTIFIC ASSISTANT - GENERAL STUDIES

1. _____ - is the highest volcanic mountain of the world.
1) ~~Cotopaxi~~ 2) Fujiyama
3) Kilavea 4) Mt.Taal
2. **Torrey canon is famous for**
1) Gulf war 2) ~~Oil spillage~~
3) Industries 4) Electrical potential
3. **Cricket world cup 2011 in finals India played with which country?**
1) Australia 2) Pakistan
3) ~~Sri-lanka~~ 4) West Indies
4. **In the following list of players who is not a olympic medalist?**
1) Vikram Rathore 2) Leander paes
3) Milka singh 4) ~~P.T. Usha~~
5. **OLAP is the abbreviation of**
1) ~~On-Line Analytical Processing~~ 2) On-Line Analog Programming
3) On-Line Analytic Programming 4) On-Line Analog Processing
6. **Hydro carbon vision 2025 is associated with**
1) ~~Storage of petroleum products~~ 2) Euro I & Euro II
3) Green house effect 4) None of these
7. **India's National Hydroelectric Power Corporation is establishing "Tamurthi" power project in**
1) Punjab 2) ~~Bhutan~~
3) Tamil Nadu 4) Nepal
8. **Human Development Index(HDI) is constructed with reference to-**
a. Life expentency at birth, real GDP percapita, gross enrollment ratio adult literacy.
b.Life expentency at birth real GDP percapita, combined gross enrollment ratio, adult literacy ratio. C.Life expectancy, GDP percapita, infant mortalityrate, literacy rate. D.GDP percapita,infant mortality rate,literacy rate.
1) a and c 2) ~~a and b~~
3) a,b,d 4) c only
9. **Who has not yet been appointed as the chairman of finance commision among the following**
1) ~~Amrish Bagchi~~ 2) Mahaveer Tyagi
3) N.K.P Salve 4) Brah Manad Reddy
10. **Arrange the following rural devolpment programme in ascending order according to their implementation by government of India. 1. Food for work programme 2.Community development programme 3.TRYSEM 4.IRDP**
1) 1,2,4,3 2) 1,2,3 and 4
3) ~~2,1,4 and 3~~ 4) 2,1,3 and 4

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11. Point out the wrong statement in the following: TamilNadu Eyal Isai Nataka mandram is:

- 1) Conferring Kalaimamani award
2) awarding porkizhi to the indigent kalaimamani awardee artists
~~3) Conferring padmashri award~~
4) Extending grants for the drama production.

12. Indian Institute of technology madras, was started during the chief ministership of _____.

- 1) Omandur Ramasamy Reddiar
2) P.S.Kumarasamy Raja
3) C.Rajagopalachari
~~4) K.Kamaraj~~

13. The control of Export Import trade in the world is mostly in the hands of -

- ~~1) Developed industrialised capitalist countries~~
2) Developed agricultural capitalist countries
3) Developed industrialised countries
4) Developed Agricultural countries

14. The largest private thermal power plant in India is _____

- ~~1) Mundra plant~~
2) Tiroda plant
3) Dahaj plant
4) Chindwara plant

15. Consider the following statements for HIV 1. It is a retro virus 2. It does not affect T-lymphocytes 3. It can affect immune system and may lead to AIDS 4. However it cannot exist in dormant state in T cells as a provirus. The correct statements are :

- 1) 2 and 3 only
2) ~~1 and 3 only~~
3) 1, 3 and 4 only
4) 2, 3 and 4 only

16. The author of 'Mezhuguvarthi' play

- 1) Cho.Ramaswamy
2) Komal swaminathan
3) Prabanjan
~~4) K.Balachandar~~

17. The libi used to write sanskrit in Tamil Nadu from ancient times?

- 1) Vattezhuttu
2) Bramielluttu
~~3) Grantha eluttu~~
4) Nagiri eluttu

18. The eleventh five year plan (2007-12) fixed its target of annual growth per annum in GDP in agriculture and allied sectors as

- 1) 6%
2) 5.5%
~~3) 4%~~
4) 7%

19. The sathyamangalam forest area of Tamil Nadu have been selected by the Ministry of Environment and forest for the reserve of-

- 1) Project Tiger
2) Project Elephant
3) Wild life Sanctuary
4) National park

20. The acronym LHC, recently in news stands for

- 1) Low-High Collider
2) Large Hadron collider
3) Large Hyper Collider
4) Light Hyper Collider

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21. A sample of 9 observations are arranged in their ascending order of magnitude. -20, -15, -10, -5, 0, 5, 10, 15, 20. Here, the sample mean equals sample median because _____.

- 1) Values are in equal distance to each other
 2) Values are in integer form
 3) Values are multiples of five
 4) Values show symmetric nature.

22. In chronological classification data are classified on the basis of

- 1) Attributes
 2) Time
 3) Location
 4) Magnitudes

23. Pie diagram represents the government expenditure in various sectors. The missing value is :



- A. 48°
 B. 86°
 C. 72°
 D. 108°

24. Data on Coffee-Tea habits in percentages :

	Male	Female
Coffee	40	5
Tea	20	35

The percentage of tea drinkers among females is _____.

- A. 5 %
 B. 35 %
 C. 40 %
 D. 87.5 %

25. Diagrammatic presentation of the cumulative frequency distribution is

- 1) Frequency polygon
 2) Ogive
 3) Histogram
 4) None

26. One dimensional diagram representing statistical data are drawn on the basis of _____

- 1) Length
 2) Height
 3) Width
 4) Volume

27. A man can row a boat upstream at 8 Km/h and downstream at 13 Km/h. The speed of the stream is

- 1) 2.5 Km/hr
 2) 4.2 Km/hr
 3) 5 Km/hr
 4) 10.5 Km/hr

37. The smallest number when decreased by 11, is exactly divisible by 20,28,35,105 is

- 1) 341
- 2) 431
- 3) 541
- 4) 531

38. Find out the wrong number in the following series. 15,30,90,180,540,1090,3240

- 1) 3240
- 2) 1090
- 3) 540
- 4) 180

39. Five children A,B,C,D and E are sitting in a row. D is sitting next to A but not E. B is sitting next to C who is sitting on the extreme left and E is not sitting next to B. Who are sitting adjacent to D.

- 1) B and A
- 2) A and C
- 3) Only A
- 4) A and E

40. If in a certain code SAND is VDOG and BIRD is ELUG, then what is the code for LOVE?

- 1) PRYG
- 2) ORTG
- 3) NPUH
- 4) ORYH

41. Which of the answer figure complete the following figure matrix?

A.

B.

C.

D.

42. Identify the letter in the sequence :

C	M	W	G	?
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A. P

B. R

C. Q

D. S

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43. Assertion[A]: The micro computers are used by a broad group of people within an organisation and focussed on the productivity of the whole department. Reason[R]: Workstation, desktops, servers, laptops and notebooks are the groups of microcomputer.

- 1) A & R are individually true and R is the correction explanation for A
 2) A & R are individually true but R is not the correct explanation for A
 3) A is true but R is false
 4) A is false but R is true

44. Which of the following are non Impact printers. I. Dot-Matrix II. Dasy Wheel Printers III. Laser Vct Printers IV. Thermal Printers

- 1) III and IV
 2) I and IV
 3) II and III
 4) I and II

45. Match the following :

a) James cooling	1) C#
b) Niklaus wirth	2) LISP
c) John McCarthy	3) Java
d) Anders Hejlsberg	4) Pascal

	a	b	c	d
A.	2	1	4	3
B.	4	1	2	3
C.	3	4	2	1
D.	1	4	3	2

46. The chromosomal variation 21- trisomy causes

- 1) Patau's Syndrome
 2) Klinefelter syndrome
 3) Cat-cry syndrome
 4) Down's syndrome

47. Consider the following statements and choose the correct answers from the options given below: a. Hidden nectries and suitably designed flowers are adoptions to attract specific pollinators. B. Plants communicate to pollinators by developing exclusive arrangement with just one species of messenger, that can deliver pollens only to other flowers of the same species. C. Pollinators are not species specific and they transfer pollen to flowers that may not belong to same species.

- 1) A and B are wrong and only C is correct
 2) A and B are correct and C is wrong
 3) B and C are correct explanations to A
 4) C and A are correct explanations to B

48.

Match the items in Column A with items in Column B				
Column A		Column B		
i) Cesium(Cs)		a) Lanthanide element		
ii) Barium(Ba)		b) Noble metal element		
iii) Silver(Ag)		c) Alkaline earth element		
iv) Cerium(Ce)		d) Alkali metal element		
	i	ii	iii	iv
A.	a	b	c	d
B.	d	c	b	a
C.	b	c	d	a
D.	c	d	a	b

49.

Match the following respiratory pigments of animals with their colours :				
Pigment		Colour		
a) Hemoglobin		1) Green		
b) Hemocyanin		2) Red		
c) Chlorocruorin		3) Brown		
d) Pinnaclobin		4) Blue		
	a	b	c	d
A.	1	2	3	4
B.	2	3	4	1
C.	4	3	2	1
D.	2	4	1	3

50. Which of the following four components of blood are necessary for clotting events. I Calcium, Vitamin K, Albumin, Globulin. II Calcium, Heparin, Prothrombin, fibrinogen III Calcium, Prothrombin, Fibrinogen, Platelets. IV Calcium, prothrombin, Platelets, Vitamin A

- 1) I and IV are correct
~~3) Only III is correct~~
 2) I and II are correct
 4) Only II is correct

51. Korotkoff sounds are heard during

- 1) Croaking of frogs
 3) Digestion of food
~~2) Measuring blood pressure~~
 4) Movement of ear ossicles

52. Which of the following is referred to as grave yard of RBCs?

- 1) Liver
 3) Lymph node
 2) Bone marrow
~~4) Spleen~~

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58. Match List I with List II and select the correct answer using the codes given below the lists.

List I		List II			
a) Chinook		1) Mediterranean region			
b) Mistral		2) Eastern slopes of rock			
c) Sirocco		mountain			
d) Bora		3) Eastern shore of			
		Adriatic sea			
		4) Sahara Desert			
	a	b	c	d	
A.	1	3	4	2	
B.	2	1	4	3	
C.	3	2	1	4	
D.	2	4	3	1	

59. The first five year plan began in the year-

- 1) 1947
~~3) 1951~~
 2) 1950
 4) 1952

60. Primary employment providing sector in India is

- ~~1) Agriculture~~
 3) Commodity
 2) Industry
 4) Service

61. 11th five year plan document titled as

- 1) Modern Document
~~2) Towards faster and more Inclusive growth~~
 3) Entire population becomes driving force of growth
 4) Growth with stability

62. Which of the following are associated with agricultural reasearch? I.ICAR II.DARE III.NAARM IV.SIDO

- 1) III and IV
~~3) I, II and III~~
 2) II and III
 4) I, II and IV

63. When was Kisan credit card (KCC) introduced?

- 1) 1968-69
 3) 1988-89
 2) 1978-79
~~4) 1998-99~~

64. Trade mark(Amendment) bill was passed in the year

- 1) 2009
~~3) 2010~~
 2) 2000
 4) None of these

65. SARVA SWASHYA ABHIYAN includes I.NUHM and NRHM II. CBHI and CGHS III.ESIS and ECHS

- 1) I,II and III are correct
~~3) I alone correct~~
 2) III alone correct
 4) II alone correct

66. As of 2004-05, the planning commission estimated _____ percentages of population in Tamil Nadu were below poverty line.

- ~~1) 22.5~~
~~3) 8.4~~
 2) 5.4
 4) 10.0

73. Match the following:

List - I	List - II
a) Article 343	1) Official language of the States
b) Article 345	2) Provision for the National language in the constitution.
c) Article 348	3) Language to be used in Representation for redress of grievances.
d) Article 350	4) Language of the supreme court, high courts, etc.

	a	b	c	d
A.	1	2	3	4
B.	4	3	2	1
C.	2	1	4	3
D.	3	4	1	2

74. Assertion (A) : Industrial disputes should not be determined by an arbitrary (or) autocratic manner. Reason (R) : Tribunals are established to decide various quasi Judicial issues.

- 1) Both (A) and (R) are correct - (R) is the correct explanation for (A)
 2) Both (A) and (R) are correct - (R) is not the correct explanation for (A)
 3) A is True; R is false
 4) A is false; R is True

75. Match the following:

President of India	Tenure
a) Dr. Zakir Hussain	1) 1969 - 1974
b) V.V Giri	2) 1974 - 1977
c) Fakhruddin Ali Ahmed	3) 1977 - 1982
d) Neelam Sanjiva Reddy	4) 1967 - 1969

	a	b	c	d
A.	4	3	2	1
B.	1	2	3	4
C.	4	1	2	3
D.	1	4	3	2

76. The president of India can nominate 12 members to Rajya sabha from amongst persons having special knowledge or practical experience in - i) Public Service, Law, Journalism and Media ii) Literature, Science, art and cooperative societies iii) Literature, Science, Art and Social service iv) Literature, Science, Law and Journalism

- 1) i and ii
 2) iii and iv
 3) iii only
 4) I and iv

77. Who decides the proportion of the distribution of taxes between the union and the states?

- 1) Prime Minister
 2) Finance Minister
 3) Finance Commission
 4) Planning Commission

78. Match the following:

	List -I				List -II			
	a) Fundamental Rights	b) Parliamentary Systems	c) Directive principles state policy	d) Emergency provision	1) Germany	2) Ireland	3) USA	4) UK
	a	b	c	d				
A.	2	1	4	3				
B.	4	1	3	2				
C.	3	4	2	1				
D.	4	2	2	1				

79. Assertion (A) : Graphite is a bad conductor of electricity Reason (R) : In graphite all the carbon bonds being not satisfied, some of the electrons are free to move through the crystal.

- 1) Both (A) and (R) are true and (R) is the correct explanation of (A) 2) Both (A) and (R) are true and (R) is not the correct explanation of (A)
 3) (A) is true but (R) is false 4) (A) is false but (R) is true

80. Which of the following is not an ore of silver?

- 1) Ruby silver 2) German silver
 3) Horn silver 4) Argentite

81. Which one is added to paint to impart bright whiteness ?

- 1) MgO_2 2) TiO_2
 3) CaO 4) MnO_2

82. Match List -I with List -II and select the correct answer using the codes given below the lists.

	List -I			List -II		
	a) Water gas	b) Producer gas	c) Coal gas	1) $CO + N_2$	2) $CO + H_2$	3) $CO + H_2 + CH_4 + CO_2$
	a	b	c			
A.	1	2	3			
B.	1	3	2			
C.	2	1	3			
D.	3	2	1			

83. Assertion (A) : A freely falling rain drops are spherical. Reason (R) : A Sphere has a smaller surface area for its volume than any other shape.

- 1) (A) is true but (R) is false 2) (A) is false but (R) is true
 3) Both (A) and (R) are true and (R) is not the correct explanation of (A) 4) Both (A) and (R) are true and (R) is the correct explanation of (A)

84. The basic principle of working of automatic operating street lights is -

- 1) Stark effect 2) Compton effect
 3) Thermo electric effect 4) Photo electric effect

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85. **COSMIC Rays are -**

- 1) Highly penetrating radiations entering earth's surface in all directions from outer space
 2) Changeless particles entering earth's atmosphere
 3) Only neutrons generated on the earth's surface
 4) Only electrons entering earth's atmosphere in a given direction

86. **GSLV stands for -**

- 1) Geological Satellite Launch vehicle
 2) Geo-Synchronous Satellite Launch Vehicle
 3) Global Satellite Launch Vehicle
 4) Generalized Satellite Launch Vehicle

87. **Which of the following was the important port in the Gupta period?**

- 1) Kalyan
 2) Chaul
 3) Broach
 4) Cambay

88. Match List -I with List -II and select the correct answer using the codes given below the lists.

List -I	List -II
a) Secular	1) Feeling of oneness
b) Democratic	2) Economic Equality
c) Socialistic	3) No state religion
d) National integration	4) Rule of people

	a	b	c	d
A.	1	2	3	4
B.	3	4	2	1
C.	2	3	4	1
D.	4	1	3	2

89. **Assertion (A) : In the Chola period, the agrahara type of villages were numerically greater than any other type of villages. Reason (R) : The practice of maintaining dancing girls by the temples known as devadasi system became very popular during the Chola period. Choose your correct answer using the codes given below:**

- 1) Both (A) and (R) are individually true and (R) is the correct explanation of (A)
 2) Both (A) and (R) are individually true but (R) is not a correct explanation of (A)
 3) (A) is true but (R) is false
 4) (A) is false but (R) is true

90. **Consider the following statements about the Megalithic graves of sangam . Choose your answer using the codes given below. I) Graves were encircled by big pieces of stones. II) Axes were the only iron implements found in the graves. III) Along with skeletons, objects of daily use were found. IV) Hero stones were planted on the graves of all males.**

- 1) I and II only are correct
 2) I, II and III are correct
 3) I and III only are correct
 4) II and IV only are correct

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91. Which of the following confederates fought against Tippu Sultan in the Third Mysore War?

- 1) Travancore Raja, Nizam of Hyderabad and the English
 2) The English, Marathas and the Nawab of Carnatic
~~3) The English, Marathas and the Nizam of Hyderabad~~
 4) The English, Nawab of Carnatic and the Nizam of Hyderabad

92. Who of the following transferred his capital from Gulbarga to Bidar?

- 1) Muhammad Shah I
 2) Muhammad Shah II
 3) Taj-ud-din Firoz Shah
~~4) Ahmed Shah~~

93. Which among the following commissions recommended the establishment of Teaching Universities ?

- 1) Nanavathi Commission
 2) Kothari Commission
~~3) Sadler Commission~~
 4) Cabinet Commission

94. Which country conferred the prestigious "Legion of Honour" upon Satyajit Roy?

- ~~1) France~~
 2) Germany
 3) USA
 4) China

95. Indian National Army was founded in _____.

- 1) Singapore
 2) Burma
~~3) Japan~~
 4) Germany

96. Which is wrongly matched among the following ?

- 1) Deccan Riots - 1875
 2) Mopla Rebellion - 1922
~~3) Santhals Revolt - 1890~~
 4) Revolt in Telungana - 1946-51

97. The first Muslim president of Indian National Congress was _____.

- 1) Syed Hasan Imam
 2) Rahimatullah Sayani
~~3) Syed Badruddin Tyabji~~
 4) Nawab syed Mohamed Bahadur

98. Match List -I with List -II and select your correct answer using the codes given below.

List -I	List -II
a) Bombay Congress Session	1) Vijaya Raghava Charri
b) Surat Congress Session	2) W.C Banerjee
c) Nagpur Congress Session	3) Jawaharlal Nehru
d) Lahore Congress Session	4) Rash Behari Bose

	a	b	c	d
A.	2	4	1	3
B.	2	3	1	4
C.	1	2	3	4
D.	3	1	4	2

99. Consider the following statements and select your answer - Assertion (A) : Poona pact was signed between Gandhi and Ambetkar Reason (R) : This was to secure an agreement between caste Hindus and untouchable leaders

- ~~1) Both (A) and (R) are true and (R) is correct explanation of (A)~~
 2) (A) is false and (R) is correct and (R) is not correct explanation of (A)
 3) (A) is true, but (R) is false
 4) Both (A) and (R) are false

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100. General Dyer was killed by _____.

1) Bhagat Singh

2) Raja guru

3) Utham Singh

4) Vanchinathan