

TNPSC

VAO – GENERAL STUDIES – 2012 (English)

1. Among the following statements which of them is/are found to be wrong?
1. Iron is highly malleable and ductile.
 2. Gold is highly malleable and ductile.
 3. Lithium is the lightest metal.
- (A) 2 and 3 **(B) 1 only**
(C) 2 only (D) 1, 2 and 3
2. Match the List I with List II correctly and select your answer using the codes given below
- | List I -State | List II -Tourist Centre | | | |
|-------------------|--------------------------------|--|--|--|
| (a) Andhrapradesh | 1. Ajantha, Ellora | | | |
| (b) Jharkhand | 2. Chithana Vasal | | | |
| (c) Maharashtra | 3. Chandrapura Birds Sanctuary | | | |
| (d) Tamilnadu | 4. Golconda Fort | | | |
- Codes :
- | | (a) | (b) | (c) | (d) |
|------------|----------|----------|----------|----------|
| (A) | 2 | 4 | 1 | 3 |
| (B) | 4 | 3 | 2 | 1 |
| (C) | 4 | 3 | 1 | 2 |
| (D) | 3 | 2 | 4 | 1 |
3. Match the List I with List II correctly and select your answer using the codes given below
- | List – I | List – II | | | |
|-------------------|--------------------|--|--|--|
| (a) Roentgen | 1. Swimming rule | | | |
| (b) Henry Bequrel | 2. Nuclear fission | | | |
| (c) Ottohaun | 3. X-rays | | | |
| (d) Ampere | 4. Radiation | | | |
- (a) (b) (c) (d)
- | | | | | |
|------------|----------|----------|----------|----------|
| (A) | 1 | 2 | 3 | 4 |
| (B) | 4 | 3 | 1 | 2 |
| (C) | 3 | 4 | 2 | 1 |
| (D) | 2 | 3 | 4 | 1 |
4. Which one of the following is correctly matched?
- (A) Troposphere (i) ions are found
(B) Stratosphere (ii) conducive for airplanes to fly
(C) Mesosphere (iii) weather patterns
- (D) Thermosphere (iv) protects the earth from falling metcors
5. Assertion (A) : Lightning flash is seen first and thunder sound is heard next.
Reason (R) : Light travels million times faster than sound.
(A) Both (A) and (R) are true (R) is the correct explanation of (A)
(B) Both (A) and (R) are true (R) is not the correct explanation of (A)
(C) (A) is true but (R) is false
(D) (A) is false but (R) is true
6. Select the appropriate pairs of words:
- (a) Cutting - Hibiscus
 - (b) Layering – Jasmine
 - (c) Yeast - Fragmentation
 - (d) Conidia - Mucor
- (A) (a), (b), (c) - correct**
(B) (b), (c), (d), (e) - correct
(C) (c), (d), (e) - correct
(D) (a), (b), (c), (d) - correct
7. The electrical appliances of our home are all connected in a _____ circuit.
(A) parallel
(B) series
(C) either parallel or series
(D) parallel and series alternatively
8. Every Bank has to keep certain minimum cash balance with R.B.I. is called
(A) Variable Reserve Ratio
(B) Cash Reserve Ratio
(C) Cash Discount Ratio
(D) Trade Discount Ratio
9. The Duty levied while transporting goods from state to state
(A) Export duty **(B) Octroi duty**
(C) Customs duty (D) Import duty

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10. In Tamilnadu the centre for Stem Cell Research is located at
 (A) Chennai (B) Coimbatore
(C) Vellore (D) Madurai
11. Consider the following statements:
 Assertion (A) : The term "Lemuria" was first used by salter.
 Reason (R) : A submerged continent (Lemuria) where Tamils survived in pre-historic age.
 Now select your answer according to the codes below :
 (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
(B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
 (C) (A) is true but (R) is false
 (D) (A) is false but (R) is true
12. Which one of the following is correctly matched?
 Officers of Village Administration in Epic Age called
 (a) Dasagrami 1. 100 Villages
 (b) Vimsatipa 2. 10 Villages
 (c) Satagrami 3. 20 Villages
 (d) Adhipati 4. 1000 Villages
- | | | | | |
|------------|----------|----------|----------|----------|
| | (a) | (b) | (c) | (d) |
| (A) | 3 | 4 | 1 | 2 |
| (B) | 2 | 3 | 1 | 4 |
| (C) | 1 | 3 | 2 | 4 |
| (D) | 4 | 1 | 2 | 3 |
13. "Inam Ennum Eemap Punaiyaich Suduvathu - Ethu"?
(A) Sinam (B) Dhanam
 (C) Pakai (D) Nakai
14. Who is the first grammarian in Sanskrit language?
 (A) Vaalmeeki (B) Viyaasar
(C) Thandi **(D) Paanini**
15. Classify the 'Ettuthokai, Noolkal' in number as Akam, Puram and Akapuram
 (A) 3 : 3 : 2 **(B) 5 : 2 : 1**
 (C) 6 : 1 : 1 (D) 4 : 4 : 0
16. Choose the correct ones:
 The traditional Thanjavur Doll automatically rights itself even after it is pushed and tilted around
 (1) It has a very low center of gravity
 (2) It has a rounded base
 (3) It has high center of gravity
 (4) It has a flat base
(A) Both 1 and 2 are correct
 (B) Both 2 and 4 are correct
 (C) Both 3 and 4 are correct
 (D) Both 1 and 2 are false
17. Which one of the following statement is incorrect regarding nuclear fission?
 (A) It is a chain-reaction
 (B) Performed under controlled conditions
(C) It takes place at a very high temperature
 (D) Neutrons are emitted during the reaction
18. Which is the correct statement?
 I. Rainfall varies from place to place and time to time. It is thus the season occur.
 II. Temperature varies from place to place and time to time. It is thus the season occur.
 III. Climate varies from place to place and time to time. It is thus the season occur.
 (A) I only (B) II only
(C) III only (D) I and II only
19. Choose the correct answer :
 Reason for 70% of coral reefs killed in Lakshadweep and Andaman islands.
(A) Global warming
 (B) Acid rain
 (C) Ozone layer depletion
 (D) Smog

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20. Which one of the following is not permanent member of security council?
 (A) U.S.A. (B) **India**
 (C) France (D) U.K.
21. Who was the Pioneer of Ballad in Tamil?
 (A) Ottakuthar
 (B) Irattai Pulavar
 (C) Kalamega Pulavar
 (D) **Pugazenthi Pulavar**
22. Match the following in correct answer:

(a) 07	1. Periya Puranam			
(b) 10	2. Kalampagam			
(c) 18	3. Ula			
(d) 63	4. Pillai Tamil			
	(a) (b) (c) (d)			
(A)	3	4	2	1
(B)	1	2	3	4
(C)	4	1	2	3
(D)	2	3	4	1
23. Which of the following statement is not correct?
 (A) Metals are malleable and ductile
 (B) Metals are good conductors of heat and electricity
 (C) **Metals are non-sonorous**
 (D) Metals are hard with high melting points
24. Match the following correctly :

Column A	Column B
(a) Chloroplast	1. Nucleus
(b) Chromoplast	2. Tubers
(c) Leucoplast	3. Leaves
(d) Lysosome	4. Flowers, fruits
(e) Chromatin reticulum	5. Suicidal bags
	(a) (b) (c) (d) (e)
(A)	3 4 2 5 1
(B)	3 2 5 1 4
(C)	3 5 1 2 4
(D)	5 1 3 4 2
25. The life span of human thrombocyte is _____ days/weeks.
 (A) **5 - 9 days**
 (B) 2 - 3 weeks
 (C) 5 - 9 weeks
 (D) 2 - 3 days
26. Consider the following statements :
 (a) During respiration, oxygen is taken in and carbondioxide is given out.
 (b) All the organisms are aerobes.
 Of these:
 (A) **(a) alone is correct**
 (B) (b) alone is correct
 (C) both are correct
 (D) both are wrong
27. Biological control of mosquito larvae can be done by
 (A) **Compusea and lepister fishes**
 (B) Earthworm
 (C) Snails
 (D) Tilapia
28. Match List I and II correctly and select your answer using the codes given below

List I (Country)	List II (Parliament)
(a) England	1. Federal Assembly
(b) America	2. Parliament
(c) Japan	3. Congress
(d) Switzerland	4. Dict
Codes :	
	(a) (b) (c) (d)
(A)	4 2 3 1
(B)	2 3 4 1
(C)	2 3 1 4
(D)	4 2 1 3

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29. Match the following :

- | | |
|-------------------------------------|-------------------|
| (a) Resumption of rent free tenure | 1. Lord Wellesley |
| (b) General services enlistment Act | 2. Lord Dalhousie |
| (c) Subsidiary Treaties | 3. Lord Bentinck |
| (d) Doctrine of Lapse | 4. Lord Canning |

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

30. Match List I and II correctly and select your answer using the codes given below :

- | | |
|------------------|-------------------------|
| List I | List II |
| (a) Junakhan | 1. Shersha |
| (b) Kasimalik | 2. Jahangir |
| (c) Fareeth Khan | 3. Mohammad-bin-Thuqlak |
| (d) Saleem | 4. Kiyasudheen |

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

31. Which one of the following texts shows us that "Sati" was practiced by the Aryans?

- | | |
|---------------|------------------|
| (a) Rig Veda | (b) Yajur Veda |
| (c) Sama Veda | (d) Atharva Veda |
| (A) a | (B) b |
| (C) c | (D) d |

32. Identify the place where coral reefs are found in Tamilnadu

- | | |
|-------------------|--------------------|
| (A) Gulf of Kutch | (B) Gulf of Mannar |
| (C) Lakshdweep | (D) Nicobar island |

33. "Karpukkadam Poonda Jththeivum Allathu Porputaith Theivam Yaam Kandilamaal" - Who is referred in these lines?

- | | |
|-------------|-----------------|
| (A) Seethai | (B) Kannagi |
| (C) Madhavi | (D) Manimegalai |

34. 'Vezham, Pidi, Vengai, ey' -

Choose the correct equivalent parallel meanings of these nouns:

- | |
|--|
| (A) Singam, Yaanai, Puli, Veesuthal |
| (B) Yaanai, Kaipatrutha, Puli, Veesuthal |
| (C) Yaanai, Penyaanai, Puli, Mullam Pantri |
| (D) Vetri, Yaanai, Puli, Peruthal |

35. Genetic Engineering is employed in the production of

- | | |
|-----------------------------------|---------------------------|
| I. Hormones | II. Enzymes |
| III. Interferon | IV. Monoclonal antibodies |
| (A) I and II are correct | |
| (B) II and III are correct | |
| (C) I, II and IV are correct | |
| (D) I, II, III and IV are correct | |

36. The percentage of Gold in 24-carat gold is

- | | |
|-----------|----------|
| (A) 75% | (B) 100% |
| (C) 91.6% | (D) 50% |

37. Match the List I with List II and select the correct answer using the code given below the list :

- | | |
|------------|--------------------------|
| List I | List II |
| (a) Venus | 1. Ringed planet |
| (b) Saturn | 2. Red planet |
| (c) Uranus | 3. Spins slowly backward |
| (d) Mars | 4. Rolling planet |
| | (a) (b) (c) (d) |
| (A) | 3 1 4 2 |
| (B) | 3 1 2 4 |
| (C) | 1 3 2 4 |
| (D) | 2 4 1 3 |

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38. Read the following statements and choose the correct answer :
- The Neolithic period is followed by Chalcolithic period when Copper and Bronze came to be used.
 - The new technology of smelting metal ore is an important development.
- (A) **1 and 2 are correct**
(B) 1 is correct and 2 is correct
(C) 1 and 2 are incorrect
(D) 1 is correct and 2 is correct
39. Match the List I with List II and select the correct answer using the code given below the list :
- | | | | |
|----------------------|-------------------------|----------------------|----------------|
| List I – (Rivers) | List II – (Water Falls) | List I | List II |
| (a) Cauvery | 1. Yenna | (a) Amoeba | 1. spores |
| (b) Sharavati | 2. Sivasumudram | (b) Paramecium | 2. flagellum |
| (c) Mahabaleswar | 3. Dhuandhar | (c) Euglena | 3. pseudopodia |
| (d) Narmada | 4. Jog | (d) Plasmodium | 4. cilia |
| (a) (b) | (c) (d) | (a) (b) | (c) (d) |
| (A) 2 4 | 1 3 | (A) 3 4 | 2 1 |
| (B) 4 3 | 2 1 | (B) 4 3 | 1 2 |
| (C) 3 2 | 4 1 | (C) 1 2 | 3 4 |
| (D) 1 3 | 2 4 | (D) 4 2 | 1 5 |
40. Which one of the following is a "Pathu Pattu" Book?
- (A) Pathirtru Pathu (B) Paripadal
(C) Patina Palai (D) Puranauru
41. How many varieties of flowers are mentioned in "Kurinjpattu"?
- (A) 96 (B) 92
(C) 99 (D) 90
42. Which Epic was written with the worship of nature in the beginning?
- (A) Valaiyapathi
(B) Seevaga Cinthamani
(C) Silappathikaram
(D) Mani Megalai
43. Where is 'Prakui' language spoken?
- (A) Tamilnadu **(B) Balusisthanam**
(C) Rajmahal (D) Bihar
44. Assertion (A) : X-rays are not deflected by electric and magnetic fields.
Reason (R) : X-rays do not have charged particles
- (A) (A) is correct (R) is wrong
(B) (A) is wrong (R) is correct
(C) (A) and (R) are wrong
(D) (A) and (R) are correct
45. Match the List I with List II and select the correct answer using the code given below :
- | | |
|----------------------|----------------|
| List I | List II |
| (a) Amoeba | 1. spores |
| (b) Paramecium | 2. flagellum |
| (c) Euglena | 3. pseudopodia |
| (d) Plasmodium | 4. cilia |
| (a) (b) | (c) (d) |
| (A) 3 4 | 2 1 |
| (B) 4 3 | 1 2 |
| (C) 1 2 | 3 4 |
| (D) 4 2 | 1 5 |
46. Match the organs of UNO with their relative fields :
- | | |
|----------------------|-------------------------|
| (a) UNIFEM | 1. Food and agriculture |
| (b) JAEA | 2. Development of women |
| (c) UNFPA | 3. Atomic energy |
| (d) FAO | 4. Population |
| (a) (b) | (c) (d) |
| (A) 2 3 | 4 1 |
| (B) 3 4 | 2 1 |
| (C) 2 1 | 3 4 |
| (D) 2 1 | 4 3 |
47. The highest inflow of Foreign Direct Investment of India (FDI) comes from
- (A) USA (B) UK
(C) Singapore **(D) Mauritius**

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48. Which one of the following statement is wrong?
- (A) Great revolt took place during the period of Lord Canning
 (B) Census was taken during the period of Lord Rippon
 (C) Great Famine took place during the period of Lord Litton
(D) First World War took place during the period of Lord Karzon
49. Which one of the following is correctly matched?
- | | |
|-------------------|-----------------------|
| (a) Amarasimman | 1. Chinese Pilgrimage |
| (b) Varaga Battar | 2. Ayur Vedha |
| (c) Dhanvanthivi | 3. Dictionary |
| (d) Fahiyani | 4. Sun, Earth |
- | | | | |
|--------------|----------|----------|----------|
| (a) | (b) | (c) | (d) |
| (A) 4 | 2 | 3 | 1 |
| (B) 3 | 2 | 1 | 4 |
| (C) 1 | 3 | 2 | 4 |
| (D) 3 | 4 | 2 | 1 |
50. Which one of the following is correctly matched?
- | |
|---|
| 1. Lion of Punjab – Lokamanyar |
| 2. Swadeshi Movement – A.O. Hume |
| 3. Bharathamatha Association – Nilakanta Bramachari |
| 4. Home Rule Movement – W. C. Bannerjee |
- | | |
|--------------|-------|
| (A) 1 | (B) 2 |
| (C) 3 | (D) 4 |
51. Consider the following statements:
- H⁺ ion concentration is 0.001 m and pH value 3.
 - H⁺ ion concentration is 0.01 m and pH value 1.
- Which one of the statements given above is/are wrong?
- (A) (1) only **(B) (2) only**
 (C) Both (1) and (2) (D) Neither (1) nor (2)
52. Match the following :
- | | |
|-------------------------|------------------------------|
| (a) Mahatma Gandhi | 1. Utopia |
| (b) Jawaharlal Nehru | 2. A.D. 2000 |
| (c) Thomas Moore | 3. Discovery of India |
| (d) Dr. M. Varadharajan | 4. My Experiments with Truth |
- | | | | |
|--------------|----------|----------|----------|
| (a) | (b) | (c) | (d) |
| (A) 2 | 3 | 4 | 1 |
| (B) 3 | 2 | 1 | 4 |
| (C) 1 | 2 | 3 | 4 |
| (D) 4 | 3 | 1 | 2 |
53. What is the use of Remote sensing satellites?
- To guide ships
 - Estimation of crop yields
 - Used for radio and television
 - To measure clouds
- (A) I and IV are correct
(B) II is only correct
 (C) III and IV are correct
 (D) IV is only correct
54. Which of the following four major emerging economies called 'BRIC'?
- (A) Brazil, Russia, Indonesia, China
(B) Brazil, Russia, India, China
 (C) Brazil, Rumania, India, China
 (D) Bangladesh, Russia, India, China
55. Antibodies collected from different organisms are used to get _____ type of immunity.
- (A) Artifieial, Active immunity
(B) Artifieial, Passive immunity
 (C) Natural, Active immunity
 (D) Natural, Passive immunity
56. Which one of the following vegetation is mostly found in the plateau regions of India?
- Hill vegetation
 - Deciduous vegetation
 - Desert vegetation
 - Sunderbans

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- (A) I only **(B) II only**
(C) III only (D) Both I and II
57. Indian Citizenship is acquired by
(A) Birth and Registration
(B) Nationalization and incorporation of a territory
(C) Only by descent
(D) All are correct
58. Match List I with List II correctly and select your answer using the codes given below:
- | List I | | List II | |
|--------------|----------|----------------------|----------|
| (a) Phodou | | 1. Jammu and Kashmir | |
| (b) Dhokri | | 2. Bihar | |
| (c) Konkani | | 3. Assam | |
| (d) Mythili | | 4. Goa | |
| | (a) (b) | (c) (d) | |
| (A) 2 | 3 | 1 | 4 |
| (B) 3 | 1 | 4 | 2 |
| (C) 1 | 2 | 4 | 3 |
| (D) 4 | 3 | 2 | 1 |
59. "Nerarum Kadaludutha Nelamadanthai Ezilozigum" - Whivh one of the following book contain these Tamilthai Vazthu Padal?
(A) Thirukkural
(B) Tholkappiyam
(C) Panchali Sapadham
(D) Manon Maniyam
60. Which one of the following events connected with 1857 revolt is correctly matched?
1. Proclaimed as the Emperor of India during the revolt 1857 - Bahadur Shah II
2. Kanpur was recaptured by - Commander Johnson
3. Hanged on charges of Rebellion - Rani Lakshmi Ba
4. One of the lieutenants of Begums of Oudh - Tantia Tope
(A) 1 (B) 2
(C) 3 (D) 4
61. Which one of the following pair is correctly matched?
I. Saranath - Buddha's birth place
II. Lumbini - Buddha got enlightenment
III. Bodh Gaya - First Sermon
IV. Kusi Nagar - Buddha's death place
(A) I (B) II
(C) III **(D) IV**
62. Consider the following table :
- | | | | | |
|----------|--------|------|------|------|
| Year | : 2008 | 2009 | 2010 | 2011 |
| Sales | | | | |
| (crores) | : 15 | 25 | 32 | 54 |
- The year in which the sales registered a sharp increase over that of the preceding year is
(A) 2008 (B) 2009
(C) 2010 **(D) 2011**
63. In an examination for every correct answer 2 marks are awarded for every wrong answer $\frac{1}{2}$ mark is reduced. If a student answer all 120 questions and secures 45 marks then the no. of correct answered questions is
(A) 45 **(B) 42**
(C) 36 (D) 38
64. Bio-chemically significant enzymes are derived from _____
(A) macrobes **(B) microbes**
(C) insuli (D) protein
65. Find x in
- | | | | |
|---|---|---|----|
| 5 | 9 | 6 | 84 |
| 7 | 3 | 7 | 70 |
| 8 | 6 | 4 | 56 |
| 5 | x | 3 | 36 |
- (A) 4 **(B) 7**
(C) 9 (D) 3

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66. Choose the correct order of hierarchy in the classification of animals :
- (A) Class – genus – species – order
 (B) Order – species – class – genus
(C) Class – order – genus – species
 (D) Species – class – genus – order
67. Right atrium of our heart receives blood from _____ blood vessel.
- (A) pulmonary vein
(B) vena cavae
 (C) aorta
 (D) pulmonary trunk
68. Colloids play an important role in our daily life. Identify the colloid in which liquid is dispersed in solid
- (A) Curd** (B) Indian ink
 (C) Milk (D) Paint
69. The largest tropical Savanna grass land are seen in
- (A) Australia** (B) Africa
 (C) Asia (D) America
70. The chairman of the union public service commission is appointed by
- (A) The President**
 (B) The Prime Minister
 (C) The Chief Minister
 (D) The Governor
71. Which one of the following is not considered as a method of calculating National Income?
- (A) Product method
 (B) Income method
(C) Budget method
 (D) Expenditure method
72. Match the following Indian towns with their Industrial product.
- | | |
|----------------|----------------------------|
| (a) Ahmedabad | 1. Tea Processing |
| (b) Kolkata | 2. Cotton Textile Industry |
| (c) Darjeeling | 3. Glass Industry |
| (d) Firoza bad | 4. Jute Industry |
- | | | | | |
|------------|----------|----------|----------|----------|
| | (a) | (b) | (c) | (d) |
| (A) | 4 | 3 | 2 | 1 |
| (B) | 3 | 4 | 1 | 2 |
| (C) | 2 | 1 | 3 | 4 |
| (D) | 2 | 4 | 1 | 3 |
73. A hemisphere and cone have equal bases and equal height. Then their volumes be in the ratio
- (A) 2 : 1** (B) 1 : 2
 (C) 3 : 2 (D) 2 : 3
74. Match List I and List II and select the correct answer using the code given below the lists :
- | | |
|-----------------|--------------------------|
| List I | List II |
| (a) Horn silver | 1. $MgCO_3$ $CaCO_3$ |
| (b) Argntite | 2. AgCl |
| (c) Bauxite | 3. Ag_2S |
| (d) Dolomite | 4. $Al_2O_3 \cdot 2H_2O$ |
- Codes :
- | | | | | |
|------------|----------|----------|----------|----------|
| | (a) | (b) | (c) | (d) |
| (A) | 2 | 4 | 1 | 3 |
| (B) | 2 | 3 | 4 | 1 |
| (C) | 3 | 2 | 4 | 1 |
| (D) | 3 | 1 | 2 | 4 |
75. Which one of the following is correctly matched?
- (A) International Atomic Energy Agency : Geneva
 (B) International Labour Organisation : Madrid, Spain
(C) United Nations University : Japan
 (D) World Tourism Organisation : Vienna

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76. Energy is stored as which molecule in mitochondria so that it is known as 'Energy Currency' of the cell
- | | | | | |
|-----|-----|-----|-----|-----|
| | (a) | (b) | (c) | (d) |
| (A) | 4 | 3 | 2 | 1 |
| (B) | 2 | 3 | 4 | 1 |
| (C) | 4 | 3 | 1 | 2 |
| (D) | 1 | 3 | 4 | 2 |
- I. Glucose II. Proteing
III. ATP IV. ADP
- (A) I and II **(B) Only III**
(C) Only IV (D) III and IV

77. Which one of the following districts where natural gas is available in Tamil Nadu?
- (A) Trichy (B) Salem
(C) Dharmapuri **(D) Tanjore**

78. Island's of Pacific Ocean is called as "Ring of Fire" because -
Consider the statements:
- I. Volcanic island's are in large numbers.
II. Majority of volcanoes are active.
- Select the correct answer using the given codes:
- (A) I only (B) II only
(C) Both I and II (D) Neither I nor II

79. The Consumer Protection Act 1986 – covers
- (A) Goods and services relating to private sector only
(B) Goods and services relating to public sector only
(C) Goods and services relating to private public and cooperative sector
(D) Goods and services relating to Government only

80. Match List I with List II :
- | | |
|--------------------|--|
| List I – (States) | List – II (Number of State Assembly Seats) |
| (a) Andhra Pradesh | 1. 140 |
| (b) Karnataka | 2. 234 |
| (c) Tamil Nadu | 3. 224 |
| (d) Kerala | 4. 294 |

81. Match the following :

- | | |
|----------------------------|----------------------------|
| (a) Agro based industry | 1. Iron and Steel industry |
| (b) Forest based industry | 2. Television |
| (c) Mineral based industry | 3. Paper industry |
| (d) Electronic industry | 4. Cotton textile industry |

- | | | | | |
|-----|-----|-----|-----|-----|
| | (a) | (b) | (c) | (d) |
| (A) | 4 | 3 | 1 | 1 |
| (B) | 4 | 2 | 1 | 3 |
| (C) | 1 | 3 | 4 | 2 |
| (D) | 1 | 4 | 3 | 2 |

82. Which one of the following articles prohibits the employment of children below the age of 14 in any factory or mine?

- (A) Article 23 (B) Article 24
(C) Article 21 A (D) Article 64

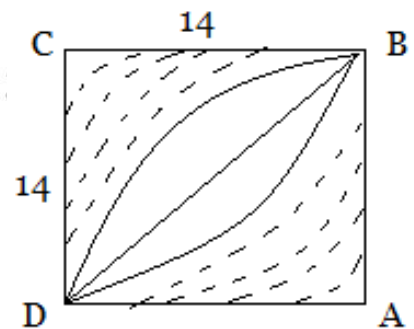
83. Match List I with List II correctly and select your answer using the codes given below :

- | | | | | |
|----------------|-----------------------|-----|-----|-----|
| List I | List II | | | |
| (a) Pyrometer | 1. Pressure of gases | | | |
| (b) Lactometer | 2. High temperature | | | |
| (c) Manometer | 3. Intensity of light | | | |
| (d) Photometer | 4. Density of milk | | | |
| | (a) | (b) | (c) | (d) |
| (A) | 4 | 3 | 1 | 2 |
| (B) | 2 | 4 | 1 | 3 |
| (C) | 2 | 4 | 3 | 1 |
| (D) | 3 | 4 | 2 | 1 |

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84. The price of a commodity becomes 16 times in a period of 4 years. The percentage increase per year is
(A) 100 (B) 40
 (C) 60 (D) 20
85. Green House effect is due to increase in
 I. Carbon-di-oxide II. Nitrous oxide
 III. Methane IV. Sulphur-di-oxide
(A) I is correct (B) I and II correct
 (C) I, II and III correct (D) All are correct
86. Optical fibres are used as medium for telecommunications. It is made from
 (A) dispersion glass (B) Nylon fibre
 (C) Thin copper wire **(D) Plastic wire**
87. Match Column A with Column B.
- | Column A | | Column B | |
|------------------|------------|------------|--|
| (A) Formic acid | | 1. Vinegar | |
| (B) Acetic acid | | 2. Butter | |
| (C) Lactic acid | | 3. Red ant | |
| (D) Butyric acid | | 4. Milk | |
| | (a) (b) | (c) (d) | |
| (A) | 3 4 | 1 2 | |
| (B) | 3 1 | 4 2 | |
| (C) | 2 3 | 4 1 | |
| (D) | 4 3 | 1 2 | |
88. Match List I and II correctly and select your answer using the codes given below :
- | List I | | List II | |
|-----------------|------------|--|--|
| (a) De- Brogile | | 1. $E = mc^2$ | |
| (b) Heisenberg | | 2. Atomic theory | |
| (c) Einstein | | 3. Wave nature of particles | |
| (d) Dalton | | 4. $\Delta H, \Delta P, \geq \frac{h}{4\pi}$ | |
| | (a) (b) | (c) (d) | |
| (A) | 2 3 | 1 4 | |
| (B) | 2 1 | 3 4 | |
| (C) | 3 4 | 1 2 | |
| (D) | 3 4 | 2 1 | |
89. Which of the following is incorrectly matched?
 (A) Rusting - Ferrous ion to ferric ion
 (B) Decarboxylation - Removal of acid group
(C) Combustion - Addition of hydrogen
 (D) Fermentation - Glucose to ethanol
90. Inflation denotes the following situation
(A) Price level rises - money value falls
 (B) Price level rises - money value rises
 (C) Price level falls - money value falls
 (D) Price level falls - money value rises
91. Which metal will melt on palm of the hand?
(A) Mercury (B) Gold
 (C) Gallium (D) Silver
92. Which one of the following rocks belongs to Sedimentary Rock?
 (A) Basalt **(B) Limestone**
 (C) Marble (D) Slate
93. In the adjoining figure the arcs \overline{BD} , have A and C as centres. Find the area of shaded portions.



- (A) 82 (B) 72
 (C) 42 **(D) 84**

94. Consider the following statements :
 Assertion (A) : There are more female terracotta figurines than those of male in Indus Valley Civilization.
 Reason (R) : Women enjoyed a superior position in the Harappan age.

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(A) Both (A) and (R) are true and (R) is the correct explanation for (A)

(A) 1

(B) 2

(B) Both (A) and (R) are true and (R) is not the correct explanation for (A)

(C) 3

(D) 4

(C) (A) is true, (R) is false

(D) (A) is false, (R) is true

98. Who has written the Drama ‘Thanneer Thanneer’?

(A) Komal Swaminathan

(B) Bala Chandar

(C) Anna Durai

(D) Pammal Sambantha Mudhaliyar

95. Match List I and List II correctly and select your answer using the codes given below :

List I		List II	
(a) Bauxite		1. Uranium	
(b) Galena		2. Titanium	
(c) Pitch Blende		3. Aluminium	
(d) Rutile		4. Lead	
	(a) (b) (c) (d)		
(A)	3 4 2 1		
(B)	3 4 1 2		
(C)	4 3 1 2		
(D)	2 1 4 3		

99. Match List I and List II correctly and select your answer using the codes given below :

List I		List II	
(a) Veerama munivar		1. Achupani	
(b) Kalduvel		2. Sathuragarathi	
(c) G.U.Pope		3. Oppilakkanam	
(d) Scegan Palku Iyer		4. Translation of Tirukkural	
	(a) (b) (c) (d)		
(A)	2 3 4 1		
(B)	1 3 4 2		
(C)	3 4 1 2		
(D)	2 4 3 1		

96. Match List I and List II correctly and select your answer using the codes given below :

(a) Service to Poor is service to God	1. Sri Narayana Guru
(b) Suddhi Movement	2. Ramalinga Vallalar
(c) Jeeva Karunya	3. Vivekanandar
(d) Dharma Paribalana Yogam	4. Swami Dhayananda Saraswathi
	(a) (b) (c) (d)
(A)	2 3 1 4
(B)	2 4 1 3
(C)	3 4 2 1
(D)	3 2 1 4

100. Where in Tamilnadu, a bench of the Madras High Court is situated?

(A) Chennai

(B) Coimbatore

(C) Trichy

(D) Madurai

97. Which one of the following is correctly matched?

1. Atmiya Sabha – Olcott
2. Young Bengal Movement – Raja Ram Mohan Roy
3. Nirankari Movement – Henry Vivian Derozio
4. Ghader Party – Lala Har Dyal