

NR IAS ACADEMY

“Success! Success!! Success!!!”

GROUP 1 EXAM - 2022

- The primary contaminant included in cigar smoke is
 - Carbon monoxide and dioxide
 - Carbon monoxide and Nicotine -
 - Carbon monoxide and Benzene**
 - Dioxicine and benzene
 - Answer not known
- When a ball is projected upwards there is an increase in its
 - Potential Energy
 - Momentum
 - Kinetic Energy
 - 1 only**
 - 1 and 2 only
 - 2 only
 - 2 and 3 only
 - Answer not known
- Alterations in the environments represent selective pressures upon the population to which it must adjust. This statement infers that
 - Organisms will increase in population in a changed environment
 - Organisms which fail to adjust to the changed environment must vanish
 - Organisms will alter their morphology to adapt to changes in the environment
 - Organisms will change the environment under selective pressure
 - Answer not known
- The enzyme involved in unwinding of DNA is
 - Telomerase
 - Helicase**
 - Polymerase
 - Ligase
 - Answer not known
- The first step in the seed germination is imbibition of water which induce the
 - Stimulation of plumule
 - Breaking dormancy
 - Growth of radicle
 - Resumes metabolic activities
 - Answer not known
- Which is the stronger acid than phenol due to the presence of three same electron withdrawing groups
 - O-Toluic Acid
 - Benzoic acid
 - Salicylic Acid
 - Picric Acid
 - (iii) only
 - (i) only
 - (ii) and (iv) only
 - (iv) only**
 - Answer not known
- Which is the one considered to be more important to study the History of science is
 - Antiquarian curiosity
 - Logical reasoning
 - Scientific knowledge
 - Conjunction with philosophy
 - Answer not known
- Which one of the following phenomenon cause adverse changes in global climate pattern and wreak havoc world wide in the form of floods and droughts?
 - Carbon Dioxide
 - El-Nino.**
 - Tropical cyclones
 - Itai-Itai
 - Answer not known
- Match the following
 - Polyethyleneglycol
 - Bt Toxin
 - Glyphosate
 - Proline
 - Herbicide
 - Stress Tolerance
 - Insecticide
 - Cell Fusion
 - (a) (b) (c) (d)
 - 3 4 1 2
 - 2 1 4 3
 - 4 1 3 2
 - 4 3 1 2**
 - Answer not known
- Which of the following statement is/are correct NANOBOTS are :
 - Robots that carry out a very specific function at nano scale level
 - They can be injected into blood stream
 - They can be used to measure toxic elements in the environment
 - They are very cheap to produce
 - (1), (2) and (4)
 - (1), (3) and (4)
 - (1), (2) and (3)
 - (1), (2), (3) and (4)
 - Answer not known

11.was the first mission to be operationalized under the National Action Plan on Climate Change (NAPCC).
 (A) Solar Cities Programme (SCP)
(B) National Solar Mission (NSM)
 (C) Solar Green Building (SGB)
 (D) Development of Solar Cities (DSC)
 (E) Answer not known
12. Which Biodiversity park in India was announced as the 1st "Other Effective Area – based Conservation Measures" (OECMs) site?
 (A) Tilpath Valley Biodiversity Park
(B) Aravalli Biodiversity Park
 (C) Yamuna Biodiversity Park
 (D) Adayar Ecopark
 (E) Answer not known
13. Which of the following are correctly paired :
 (i) KVK - Kisan Vigyan Kendra
 (ii) SMAE - Sub Mission on Agriculture Extension
 (iii) NSDA - National Skill Development Agency
 (iv) ATMA - Agricultural Technology Management Agency
(A) (i), (ii) and (iii)
 (B) (ii), (iii) and (iv)
 (C) (i), (iii) and (iv)
 (D) (i), (ii), (iii) and (iv)
 (E) Answer not known
14. How many number of Ramsar sites are identified in India till 15th August 2022?
 (A) 82
 (B) 78
(C) 75
 (D) 70
 (E) Answer not known
15. PM GatiShakti is a transformative approach for economic growth and Sustainable Development which focuses on
 (A) Educational Development
(B) Multimodal Connectivity
 (C) Empowerment of SHGs
 (D) Environmental Development
 (E) Answer not known
16. Which one of the following is NOT an objective of the Union Government's 'Beti Bachao Beti Padhao' scheme?
 (i) Prevention of gender biased sex selective elimination
 (ii) Ensuring survival and protection of the Girl child
 (iii) Ensuring education and participation of the Girl child
 (iv) Creating a fixed deposit in the name of the Girl child concerned
 (A) (i) only
 (B) (i) and (ii)
 (C) (iii) only
(D) (iv) only
 (E) Answer not known
17. Read the list given below carefully of dignitaries and find out among them the correct hierarchical order with respect to their rank and precedence
 (i) Chief Election Commissioner of India
 (ii) Cabinet Secretary
 (iii) Chief of Army Staff
 (iv) Deputy Speaker, Lok Sabha
 (A) (iv), (iii), (i) and (ii)
 (B) (iv), (iii), (ii) and (i)
(C) (i), (iv), (ii) and (iii)
 (D) (i), (iii), (iv) and (ii)
 (E) Answer not known
18. Which is the international coalition of solar-resource rich countries that are collectively addressing common challenges on applications?
 (A) International Solar Energy Society (ISES)
(B) International Solar Alliance (ISA)
 (C) International Renewable Energy Agency (IRENA)
 (D) International Energy Agency (IEA)
 (E) Answer not known
19. Arrange the following Indian Women Olympic Medal Winners in Chronological order
 1. Saina Nehwal
 2. Lovlina Borgohain
 3. Sakshi Malik
 4. Karnam Malleswari
 (A) 2, 4, 1, 3
 (B) 1, 4, 2, 3
(C) 4, 1, 3, 2
 (D) 4, 1, 2, 3
 (E) Answer not known
20. Palmer index is associated with which of the following natural disaster?
 (A) Earth quake
 (B) Volcano
(C) Drought
 (D) Flood
 (E) Answer not known
21. Match the following and choose the correct option related to ISRO :
 (a) URSC 1. ISRO's virtual space Museum
 (b) ITTP 2. ISRO satellite centre
 (c) SPARK 3. Space science for school students
 (d) YUVIKA 4. Technical training for ISRO staff
 (a) (b) (c) (d)
 (A) 2 3 4 1
 (B) 3 1 4 2

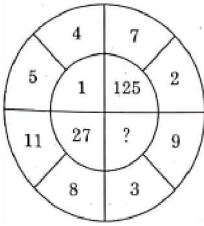
- (C) 2 4 1 3
(D) 4 3 2 1
(E) Answer not known
22. On April 10, 1802, the Great Trigonometrical Survey of India Commenced its work from
(A) Delhi
(B) Calcutta
(C) Bombay
(D) Madras
(E) Answer not known
23. Carolyn Bertozzi, Morten Meldal and Barry Sharpless won the 2022 Nobel prize in Chemistry for?
(A) For the development of click chemistry and bioorthogonal chemistry
(B) For discoveries concerning the genomes of extinct hominins and human evolution
(C) For the development of asymmetric organocatalysis
(D) For the development of a method for genome editing
(E) Answer not known
24. Match the winner of medal in commonwealth games 2022 with their sport
- | Player | Sport |
|--------------------|-------------------|
| (a) Sharat Kamal | 1. Boxing |
| (b) Lakshya Sen | 2. Weight lifting |
| (c) Mirabai Chhanu | 3. Table Tennis |
| (d) Nikhat Zareen | 4. Badminton |
- (a) (b) (c) (d)
(A) 1 2 3 4
(B) 3 4 2 1
(C) 4 2 1 3
(D) 2 3 4 1
(E) Answer not known
25. Which one of the following Indicator is not used to calculate Human Development Index (HDI)?
(A) Life Expectancy
(B) CPI
(C) Education Index
(D) Per Capita Income
(E) Answer not known
26. "Nambikkai Inaiyam (NI)" a Tamil Nadu Government project about
(A) Statewide Block chain infrastructure
(B) Source of resident data for Tamil Nadu
(C) Unified access to e-services of different government departments
(D) Providing professional resources and training to decision makers
(E) Answer not known
27. Which is correct?
(i) HYV - High Yielding Varieties
(ii) MSP - Maximum Support Prices
(iii) PDS - Public Distribution System
(iv) IPM-Integrated Pesticide Management
(A) (i), (ii) and (iv) only
(B) (i) and (iii) only
(C) (i), (ii) and (iii) only
(D) (i), (iii) and (iv) only
(E) Answer not known
28. Kalaignar Anaithu Grama Orunginaintha Velan Valarchi Thittam aims at
1. Increasing the cultivable area
2. Bringing fallow land under cultivation
3. Changing the crop pattern with introduction of new crops
4. Augmenting water resources
(A) 1, 2 and 3 are correct
(B) 2, 3 and 4 are correct
(C) 1, 2 and 4 are correct
(D) 1, 2, 3 and 4 are correct
(E) Answer not known
29. Match the following :
- | | |
|----------|--------------------------------------------|
| (a) 1997 | 1. Anaithu Grama Anna Marumalarchi Thittam |
| (b) 1998 | 2. Varumun Kappom Thittam |
| (c) 2006 | 3. Samathuvapuram |
| (d) 2009 | 4. Namakku Naame Thittam |
- (a) (b) (c) (d)
(A) 3 4 2 1
(B) 4 3 2 1
(C) 4 1 2 3
(D) 3 1 4 2
(E) Answer not known
30. Which among the following is a scheme of Govt. of India for ensuring the safety and dignity of sanitation workers?
(A) Smile
(B) Namaste
(C) Amber
(D) West
(E) Answer not known
31. During which Period Bronze Icons of Nataraja deity with four hands was casted?
(A) Chera Period
(B) Chola Period
(C) Pandiyas Period
(D) Shunga Period
(E) Answer not known.
32. Match the following Acts with its corresponding years:
- | | | |
|--------------------------------------------|----|------|
| (a) Madras Wild Elephants Preservation Act | 1. | 1882 |
| (b) Tamil Nadu Forest Act | 2. | 1980 |
| (c) Forest Conservation Act | 3. | 1972 |
| (d) Wildlife Protection Act | 4. | 1873 |
- (a) (b) (c) (d)
(A) 1 4 3 2

- (B) 4 1 2 3
 (C) 2 3 1 4
 (D) 3 2 4 1
 (E) Answer not known
33. Which of the following statements are true in respect of Dr. Muthulakshmi Reddy?
1. She was the first woman in India to get a degree in medicine.
 2. She was the first woman Legislator in British India.
 3. She was the first female student to be admitted in Maharaja's college.
 4. She was the first woman President of the legislative council.
- (A) 1, 2 and 3
 (B) 2, 3 and 4
 (C) 1, 3 and 4
 (D) 1, 2, 3 and 4
 (E) Answer not known
34. The significance of Tamil Nadu Panchayat Raj (Amendment) Act 2016
- (A) Modifications in three-tier system
 (B) Constitution of District Planning Committees
 (C) Transferred specific functions and powers to Panchayats from the State Government
 (D) **50 percent reservation for women**
 (E) Answer not known
35. During the early resistance against the British who issued the "Tiruchirappalli Proclamation"
- (A) Veerapandia Kattabomman
 (B) Velunachiar
 (C) **Maruthu Brothers**
 (D) Puli Thevar
 (E) Answer not known
36. Match the following :
- | Name | Related to |
|--------------------------|----------------------------|
| (a) Swami Sahajananda | 1. Oppressed Hindus |
| (b) M.C. Rajah | 2. Tamizhan |
| (c) Pandit Iyothee Thass | 3. Nandanar Kalvi Kazhagam |
| (d) Veeresalingam | 4. The Widows Home |
- (a) (b) (c) (d)
 (A) 3 1 2 4
 (B) 1 3 2 4
 (C) 1 2 3 4
 (D) 4 1 2 3
 (E) Answer not known
37. Assertion [A]: Human Resources is necessary for the progress of country.
 Reason (R) : Investment in education and health of people can result in a high rate of returns in the future for a country.
 (A) **Both [A] and [R] are true and [R] explains [A]**
- (B) Both [A] and [R] are true and [R] does not explain [A]
 (C) [A] is correct and (R) is false
 (D) [A] is false and [R] is true
 (E) Answer not known
38. Which among the following institutions secured no. 1 overall rank according to national institutional ranking framework?
- (A) **IIT, Madras**
 (B) IISC, Bangalore
 (C) AIIMS, Delhi
 (D) IIT, Bombay
 (E) Answer not known
39. Match :
- | Tinais | Their Gods |
|-------------|------------|
| (a) Kurinji | 1. Kali |
| (b) Mullai | 2. Murugan |
| (c) Marudam | 3. Indra |
| (d) Palai | 4. Tirumal |
- (a) (b) (c) (d)
 (A) 3 4 1 2
 (B) 1 3 4 2
 (C) **2 4 3 1**
 (D) 4 2 3 1
 (E) Answer not known
40. Gandhiji established an ashram at Sabarmathi. Likewise an ashram was established in Tamil Nadu by Rajaji. Where was it established?
- (A) Madurai
 (B) Vedaranyam
 (C) Salem
 (D) **Thiruchengodu**
 (E) Answer not known
41. Which of the following statements are true about Ramalinga Adigal?
- (i) He started the Samarasa Suddha Sanmarga Satya Sangam in 1865
 - (ii) He was against caste system
 - (iii) He established Satya Dharma Salai in 1867
- (A) (i) is true
 (B) (i) and (iii) are true
 (C) **(i), (ii) and (iii) are true**
 (D) (i) and (ii) are true
 (E) Answer not known
42. Find incompatible pair in the following:
- (A) Pradhava Mudhaliar Sarithiram - Vedanayagam Pillai
 (B) **Sugunasundhari - Nadesa Sasthiri**
 (C) Kamalambal Sarithiram - Rajam Ayyar
 (D) Padmavathi Sarithiram - Madhavaiya
 (E) Answer not known
43. In 1921 at Erode, E.V.R. picketed toddy shop. Two women also participated in picketing. They were the first women to be arrested for picketing toddy shops

- in Tamil Nadu. Who were they?
(A) Nagammaiyar and Kannammal
 (B) Nagammaiyar and Moovalur Ramamirtham Ammaiyar
 (C) Kannammal and Muthulakshmi Reddy
 (D) Maniyammiyar and Nagammaiyar
 (E) Answer not known
44. Which of the following are correctly paired?
 1. Nizhal Thaankalgal - Vaigunda Swamigal
 2. Hindu Progressive Improvement Society - Rajaram Mohan Roy
 3. Samarasa Sanmarka Sangam - Vallalar
 4. Self Respect Morality - Vedanayagam Pillai
(A) 1 and 3
 (B) 1 and 2
 (C) 1 only
 (D) 1, 2 and 4
 (E) Answer not known
45. Choose the correct kural for the explanation given below :
 It is more pleasant to hold the dart that has missed an Elephant than that which has targeted the hare in the forest.
(A) Kaana Muyaleydha Ampinil Yaanai Pizhaitthavel Endhal Inidu
 (B) Aakaaru Alavitti Thaayinung Ketillai Pokaaru Akalaak Katai
 (C) Kettinum Untor Urudhi Kilagnarai. Neetti Alappadhor Kol
 (D) Ulluvathu Ellam Uyarvullal Matrathu Thallinum Thallamai Neerthu
 (E) Answer not known
46. Match the following books with their authors and find the correct order :
 (a) Ulagam Sutrum
 (b) Gnanaratham
 (c) Thanneer Thanneer
 (d) En Kadhai
 (a) (b) (c) (d)
 (A) 1 2 3 4
 (B) 2 1 3 4
 (C) 3 4 2 1
(D) 4 1 2 3
 (E) Answer not known
47. Who said these lines to whom?
 "Maarivaram koorin mannuyir illai Mannuyir ellam mannaal Vendhan".
(A) Manimegala deity to Udhayakumaran
 (B) Sudamadhi to Udhayakumaran
 (C) Dheevathilagai to Manimegalai
 (D) Manimegalai to Udhayakumaran
 (E) Answer not known
48. "Urellam koodi olikka azhuthittu perinai neekki pinamenru perittu"
 Who defined death as a undefiable force?
(B) Thirumoolar
 (C) Sundarar
 (D) Manikkavasagar
 (E) Answer not known
49. Choose the correct meaning for the following sentences :
 1. Palakudai Neezhalum Thankudai keel Kaanbar
 2. Iravaar Irapparkku Ondru Ieevar
(C) These two statements eulogizes the farmers
 (A) These two statements appreciates the prowess of the king
 (B) These two statements appreciates the philanthropists
 (D) These two statements talks about the humble person
 (E) Answer not known
50. Nadaakondro! Kadaakondro!!
 avazhi nallai vazhiya nilanae!
 Whose character plays an important role in the shaping of the world Emancipation in Purananuru?
(B) Men (Aadavar)
 (A) Women (Pendir)
 (C) King (Arasar)
 (D) Priest (Anthanar)
 (E) Answer not known
51. Which Festival was celebrated throughout Tamilaham during the Sangam Age?
(A) Adippooram
 (B) Onam
 (C) Navarathiri
 (D) Thiruvathirai
 (E) Answer not known
52. "Kavarum Kazhagamum Kaiyum Tharukki Ivariyaar Illagi yaar" - to whom does the advice is said in this Kural?
(D) Kings
 (A) Guards
 (B) Ambassadors
 (C) Ministers
 (E) Answer not known
53. Match the following with List I with List II :
List I **List II**
 (a) Thirumurukarrupadai 1. Mudattamakanniyar
 (b) Porunaratrupadai 2. Nakkirar
 (c) Sirupanatrupadai 3. Kapilar
 (d) Kurunji Pattu 4. Nallur Naththathanar
 (a) (b) (c) (d)
 (A) 1 3 2 4
 (B) 1 2 4 3
(C) 2 1 4 3

- (D) 3 2 1 4
(E) Answer not known

54. Find out the missing value in the given figure.



- (A) 8
(B) 64
(C) **216**
(D) 25
(E) Answer not known
55. Find the common ratio for the geometric sequence 0.15, 0.015, 0.0015, ...
(A) **0.1**
(B) 0.01
(C) 0.001
(D) 1
(E) Answer not known
56. Find the sum of $1^2 + 2^2 + \dots + 19^2$.
(A) 2500
(B) 2400
(C) **2470**
(D) 2570
(E) Answer not known
57. 'A' can finish a work in 18 days and 'B' can do same work in half the time taken by 'A', then if they work together, then what part of same work they can finish in a day.
a. 1/9 b. **1/6**
c. 2/7 d. 2/5
(E) Answer not known
58. The side of a metallic cube is 12 cm. It is melted and formed into a cuboid whose length and breadth are 18 cm and 16 cm respectively. Find the height of the cuboid.
(A) **6 cm**
(B) 7 cm
(C) 8 cm
(D) 10 cm
(E) Answer not known
59. The compound interest on Rs. 16,000 for 9 months at 20% per annum compounded quarterly is
a. Rs. 2,599 b. Rs. 2,572
c. **Rs. 2,522** d. Rs. 2,502
(E) Answer not known
60. In what time period will Rs. 10,000 earn an interest of 2,000 at 10% per annum?
(A) **2 years**

- (B) 5 years
(C) 6 years
(D) 3 years
(E) Answer not known

61. A car travels 90 km in 2 hours 30 minutes. Then the time required to cover 210 km with the same speed is
a. **5 hours 50 minutes**
b. 5 hours 30 minutes
c. 5 hours 20 minutes
d. 6 hours 50 minutes
e. Answer not known
62. The radius of two right circular cylinder is in the ratio 3:2. The ratios of their heights is 5:3. Then the ratio of their C.S.A. is
a. **5:2** b. 5:3
c. 3:2 d. 2:5
e. Answer not known
63. If the HCF of $x^4 + 3x^3 + 5x^2 + 26x + 56$ and $x^2 + 2x^3 - 4x^2 - x + 28$ is $x^2 + 5x + 7$. Then their LCM is
(A) $(x^2 + 2x + 8)(x^4 + 2x^3 - 4x^2 - x + 28)$
(B) $(x^2 + 2x - 8)(x^4 + 2x^3 - 4x^2 - x + 28)$
(C) $(x^2 - 2x + 8)(x^4 + 2x^3 - 4x^2 - x + 28)$ ✓
(D) $(x^2 - 2x - 8)(x^4 + 2x^3 - 4x^2 - x + 28)$
(E) Answer not known
64. Which one of the following is a pair of co-primes?
(A) (16,62)
(B) **(18, 25)**
(C) (21, 35)
(D) (23, 92)
(E) Answer not known
65. If price of a tea increased by 20%, by what percentage must the consumption be reduced to keep the expense the same
(A) $15 \frac{2}{3}$ %
(B) **$16 \frac{2}{3}$ %**
(C) $17 \frac{2}{3}$ %
(D) $18 \frac{2}{3}$ %
(E) Answer not known

66. Akila scored 80% of marks in an examination. If her score 576 marks. Find the maximum marks of the examination.
 (A) 640
 (B) 680
 (C) **720**
 (D) 700
 (E) Answer not known,
67. Assertion [A] : The New Educational Policy (NEP) envisages complete overhaul of teaching - Learning process from the traditional teacher - centered to learner centric approach.
 Reason [R]: NEP ensures that holistic development of students by accentuating their creative potential.
 (A) [A] is true but [R] is false
 (B) [A] is false, [R] is true
 (C) Both [A] and [R] are true; and [R] is the correct explanation of [A]
 (D) Both [A] and [R] are true but [R] is not the correct explanation of [A]
 (E) Answer not known
68. 'Promoting soil health' and 'making rainwater harvesting compulsory' –
 These statements relates to
 (A) Green revolution
 (B) Blue revolution .
 (C) **Evergreen revolution**
 (D) Yellow revolution
 (E) Answer not known
69. Which are the articles that describe situations and confer power to Union Government to claim control over states
 (A) Art 368 and 313
 (B) Art 356 and 363
 (C) **Art 365,256 and 257**
 (D) Art 349 and 350
 (E) Answer not known
70. Indian economy is marked by the existence of
 (i) Low per capita income
 (ii) High proportion of the working population is engaged in industries
 (iii) Improving rate of capital formation
 (iv) Problems in the employment
 (A) (i) and (ii) are correct
 (B) (i) and (iii) are correct
 (C) (ii) and (iii) are correct
 (D) (ii) and (iv) are correct
 (G) Answer not known
71. The functions of Reserve Bank of India are:
 (i) Issue of coins and Bank notes
 (ii) Banker to the Government
 (iii) Regulating credit in the country
 (A) (i) and (ii) only
 (B) (i) and (iii) only
 (C) (ii) and (iii) only
 (D) (i), (ii) and (iii)
 (E) Answer not known
72. How many pairs are correctly matched?

Vaccine	Nature
1. Pfizer	- mRNA vaccine
2. Covishield	- DNA based vaccine
3. Covaxin	- Inactive vaccine
4. Sputnik. V	- Viral vector vaccine

 (A) 1 pair
 (B) 2 pairs
 (C) **3 pairs**
 (D) 4 pairs
 (E) Answer not known
73. Jawaharlal Nehru wrote in 1961 'India as a secular state honours all faiths equally and gives them equal opportunities'. S. Radhakrishnan President of India too expressed 'when India is said to be a secular state, it does not mean that we as a people reject the reality of an unseen spirit or the relevance of religions to life or that we exalt irreligion. It does not mean that secularism itself becomes a positive religion or that the state assumes divine prerogatives'. Which one of the following is best implied in the passage?
 (A) Indian secularism is a religious, irreligious or antireligious
 (B) Indian secularism is perfectly compatible with religiosity
 (C) **Indian secularism does not recognise the importance of religion in the public space.**
 (D) Indian secularism is not required to give each religion equal consideration
 (E) Answer not known
74. Tamil Nadu State has which of the following policy/policies?
 1. Tamil Nadu R and D Policy
 2. Tamil Nadu Life Sciences Promotion Policy
 3. Tamil Nadu Footwear and Leather Products Policy
 4. Tamil Nadu Fintech Policy
 (A) 1, 3 and 4.
 (B) 1 and 3
 (C) 1, 2 and 3
 (D) 1, 2 and 4
 (E) Answer not known
75. Which of the following are correctly paired?
 (i) New India and Commonweal - Mrs. Annie Besant
 (ii) Kesari and Maratha - Bala Gangadhar Tilak
 (iii) Indian Opinion - Gopal Hari Deshmukh
 (iv) Indu Prakash - Mahatma Gandhi
 (A) **(i) and (ii)**
 (B) (i) and (iv)

- (C) (i) and (iii)
 (D) (iii) and (iv)
 (E) Answer not known
76. Which of the following statement(s) correct about Madras Native Association?
 1. The first political organisation started in India
 2. The Madras Native Association began to function on 1852.
 3. The founder of the Madras Native Association was G. Lakshminarasu Chetty.
 4. The leader of the Madras Native Association was Anandha Charlu
 (A) (iii) only
 (B) (i) and (ii) only
(C) (ii) and (iii) only.
 (D) (ii) and (iv) only
 (E) Answer not known
77. The tropical cyclone winds blow into the Northern Hemisphere in ----- direction.
 (A) Clockwise .
 (B) Straight
(C) Anticlockwise
 (D) Circular
 (E) Answer not known
78. What are the pillars of block chain technology?
 1. Transparency
 2. Immutability
 3. Decentralisation
 (A) 1 and 2
 (B) 1 and 3
 (C) 2 and 3
(D) 1, 2 and 3.
 (E) Answer not known
79. Which of the following act was described by Jawaharlal Nehru as the 'Charter of Slavery'?
 (A) Government of India Act of 1909
 (B) Government of India Act of 1919
(C) Government of India Act of 1935.
 (D) Government of India Act of 1947
 (E) Answer not known
80. In which annual sessions of the Indian National Congress made the historic 'Purna Swaraj' declaration?
 (A) 1907 Surat
 (B) 1920 Nagpur
(C) 1929 Lahore
 (D) 1940 Karachi
 (E) Answer not known
81. Who was selected as the President of Council of Action, which was constituted by TamilNadu Congress Committee to execute the civil disobedience in 1930?
(A) C. Rajagopalachari-
 (B) S. Sathyamurthi
 (C) T.S.S. Rajan
 (D) T. Prakasam
 (E) Answer not known
82. The steps adopted in the long term conservation strategy of wild life is/are
 (i) Hunting should be strictly prohibited in the nation parks, sanctuaries, biosphere reserves
 (ii) More national parks and wild life sanctuaries should be established
 (iii) Captive breeding of wildlife should not be encouraged
 (A) (i) only
 (B) (ii) and (iii) only
 (C) (i) and (ii) only .
 (D) (i) and (iii) only
 (E) Answer not known
83. Assignment of ecological or biological significance of a contaminant's effect based primarily on statements of statistical significance but contrary to biological probability
 (A) Malthusian theory .
 (B) Median effective concentration.
 (C) Maulstick incongruity
 (D) Maximum likelihood estimation
 (E) Answer not known
84. Which of the following statements about the citizenship Amendment Act, (CAA) 2019 are true?
 1. Citizenship will be granted to all the foreigners who lived in India for more than six years.
 2. Citizenship to members of Hindus, Sikh, Buddhist, Jain, Parsi or Christian communities from Afghanistan, Bangladesh and Pakistan who entered India on or before 31 Dec, 2014.
 3. Members of specific communities will be granted citizenship within 6 years instead of 12 years.
 4. The CAA will help to the preparation of National Register of Citizens 1 and 2 are true
 (A) 1 and 2 are true
(B) 2 and 4 are true .
 (C) 3 and 4 are true
 (D) 2 and 3 are true
 (E) Answer not known.
85. Find the mismatched answer about the Indian Railway Zones.
 (A) Southern - Chennai
(B) Central - Jaipur
 (C) Northern - New Delhi
 (D) Eastern - Kolkata
 (E) Answer not known
86. Which of the following statements is true about human races?
 (i) The races is a group of people with more or less permanent distinguishing characteristics
 (ii) Human races are classified in 7 blood groups

- (iii) The races are identified and classified based on skin colour, stature, shape of head, face, nose, eye, type of hair and blood group
- (A) (i) and (iii) only
 (B) (i) and (ii) only
 (C) (i) only
 (D) (ii) and (iii) only
 (E) Answer not known
87. was the contemporary of Emperor Akbar in England.
 (A) King John
(B) Queen Elizabeth-I
 (C) Queen Victoria
 (D) King Charles II .
 (E) Answer not known
88. Meadows Taylor observes that the death of was 'the beginning of the end' of the Bahmani kingdom.
(A) Mahmud Gawan
 (B) Ahmad Shah
 (C) Mahmud Shah
 (D) Humayun
 (E) Answer not known
89. Arrange in chronological order
 1. Nehru Report
 2. Poona Pact
 3. Simon Commission
 4. Cripps Mission
 a. 1, 2, 3, 4 b. 3, 2, 4, 1
c. 3, 1, 2, 4 d. 2, 1, 4, 3
90. Which one of the following is not correctly matched?
 (A) Arif Qandhari - Tarikh-i-Akbari
 (B) Nizamuddin Ahmad - Tabaqat-i-Akbari .
 (C) Abdul Qadir Badaoni - Muntakhab-ut-Tawarikh
(D) Muhammad Khan - Khulasat Tawarikh
 (E) Answer not known
91. Match the following:
 (a) Garo 1. Assam
 (b) Kuki 2. Mizoram
 (c) Todas 3. Tamilnadu
 (d) Miri 4. Arunachal Pradesh
 (a) (b) (c) (d)
 (A) 2 4 1 3
 (B) 1 2 4 3
(C) 1 2 3 4
 (D) 2 4 3 1
 (E) Answer not known
92. The Stupa at Amaravati is a best example of what?
 (A) Nagara style of architecture
 (B) Vesara style of architecture
 (C) Mughal Architecture
 (D) Dravidian architecture
 (E) Answer not known
93. Choose the right matches among the type
 1. Vedantins - Brahma
 2. Naiyayikas - Arhat
 3. Jaina - Creator
 4. Mimansaks - Karma
 (A) 1 and 4 are correct
 (B) 1 and 2 are correct
 (C) 2 and 3 are correct
 (D) 3 and 4 are correct
 (E) Answer not known
94. Choose the correct match:
 1. Ariz-I-Mumalik - Minister for Defence
 2. Mushrif-I-Mumalik - Accountant General
 3. Dabir-I-Mumalik - Minister for public grievance
 4. Mustaufi-I-Mumalik - Auditor General
 (A) 1, 2 and 3 only
 (B) 2, 3 and 4 only
(C) 1, 2 and 4 only
 (D) 1, 3 and 4 only
 (E) Answer not known
95. Consider the following statement and find the incorrect answer :
 1. The constitution imposes limits to President to give assent to the bill passed by the state legislature
 2. The President may refer a reserved bill to the Supreme Court, under Article 143 for discussion
 3. The power of the President assent to the bill passed by the State Legislature and Parliament are the same
 4. The President cannot keep a bill of the Parliament pending at his hands for an indefinite period of time
 (A) 1 and 4 only incorrect.
 (B) 1 and 3 only incorrect
 (C) 2 and 3 only incorrect
(D) 3 and 4 only incorrect
 (E) Answer not known
96. Which constitutional amendment incorporated Puducherry in the Union of India?
 (A) Tenth
 (B) Twelfth
(C) Fourteenth
 (D) Twenty second
 (E) Answer not known

97. Arrange in chronological order
1. Sarkaria Commission
 2. Balwantraoi Mehta Committee
 3. Rajamannar Committee
 4. Administrative Reforms Commission
- (A) 2, 3, 1, 4
(B) 2, 4, 3, 1
 (C) 2, 4, 1, 3
 (D) 4, 2, 3, 1
 (E) Answer not known
98. Which of the following statement is/are correct?
1. The universal declaration of human rights was adopted on 1948.
 2. Article 10 says that all human beings are born free
 3. UDHR has altogether 32 articles.
 4. UDHR was adopted by United Nations General Assembly
- (A) 1, 2, 3 and 4,
 (B) 1,2 and 3
 (C) 1 and 4
 (D) 1, 2 and 4
 (E) Answer not known
99. Which of the following statement(s) is true about the union territories of India?
1. From 26th Jan. 2020, Dadra and Nagar Haveli and Daman and Diu are combined to a single territory.
 2. Articles 239 to 241 in Part VII of the constitution deal with union territories.
 3. The two union territories from the former state of Jammu and Kashmir are Ladakh and Jammu and Kashmir.
 4. The largest union territory of India is Andaman and Nicobar Islands.
- (A) 1, 2 and 4 are correct
(B) 1 and 3 are correct
 (C) 2 and 4 are correct
 (D) 2, 3 and 4 are correct.
 (E) Answer not known
100. Which of the following is incorrectly matched?
1. Article 361 - The President enjoys protection from criminal proceedings against him in court of law
 2. Article 352 - National emergency
 3. Article 356 - President Rule in State
 4. Article 360 - Finance commission
- (A) 1 only
 (B) 3 only
 (C) 1, 2 and 3 only
(D) 4 Only .
 (E) Answer not known

101. Choose the correct answer :
- The fundamental rights have been described as
- (i) The Magna Carta of India
 - (ii) The Conscience of the Constitution
 - (iii) The soul of the constitution
 - (iv) Inspiration from bill of rights of American constitution
- (A) (i) and (ii) only
 (B) (ii) and (iii) only
 (C) (i) and (iii) only
(D) (i), (ii), (iii) and (iv).
 (E) Answer not known
102. Match the following constitutional articles related to Chief Minister of a State:
- | Subject Matter | Article No. |
|-----------------------------------------------------------------------------------------|-------------|
| (a) Council of Ministers to aid and advice the Governor | 1. 164 |
| (b) Other provisions as to Ministers. | 2. 166 |
| (c) Conduct of business of the Government of a state | 3. 167 |
| (d) Duties of Chief Minister with respect to furnishing of information to Governor etc. | 4. 163 |
- (a) (b) (c) (d)
 (A) 1 3 2 4
 (B) 2 4 1 3
 (C) 3 2 1 4
(D) 4 1 2 3
 (E) Answer not known
103. Match the following:
- | Committee | Year |
|------------------------------------------------------------|---------|
| (a) Goswami committee on electoral reforms | 1. 1993 |
| (b) Vohra committee report | 2. 1998 |
| (c) Indrajit gupta committee on state funding of Elections | 3. 2008 |
| (d) The second administrative Reforms Commission | 4. 1990 |
- (a) (b) (c) (d)
 (A) 1 2 3 4
 (B) 3 2 1 4
 (C) 2 4 3 1
(D) 4 1 2 3
 (E) Answer not known
104. Consider the statement of the Judicial power of the Governors of the States.
 Choose the correct answer from the option given below:
 Assertion (A) : The power of granting pardon under

article 161 is very wide and do not contain any limitation.

Reason [R] : Judicial review is possible, when he/she on the ground of non-application of mind and non-consideration of relevant material and suffers from arbitrariness.

- (A) [A] is true [R] is false
- (B) [R] is true [A] is false
- (C) Both [A] and [R] are true; but [R] is not correct explanation of [A]
- (D) Both [A] and [R] are true [R] is the correct explanation of [A]
- (E) Answer not known

105. The process of establishment of an organism in a new habitat is known as

- (A) **Ecesis**
- (B) Migration
- (C) Immigration
- (D) Coaction
- (E) Answer not known

106. Which of the following characteristics of science is not true?

- (i) It is guided by natural law
 - (ii) It is testable against the observable world
 - (iii) Its conclusions are permanent
 - (iv) It is falsifiable
- (A) (ii), (iii) and (iv) only
 - (B) (iii) and (iv) only
 - (D) (iv) only
 - (C) (iii) only.
 - (E) Answer not known

107. Quantum nature of light is not supported by the phenomenon of

- (A) Compton effect
- (B) Photoelectric effect
- (C) Emission and Absorption Spectrum
- (D) Interference of light waves.
- (E) Answer not known

108. LPG is a mixture of

- (A) $C_6H_{12} + C_6H_6$
- (B) $C_4H_{10} + C_3H_8$
- (C) $C_2H_4 + C_2H_2$
- (D) $C_2H_4 + CH_4$
- (E) Answer not known

109. Assertion [A] : Critical thinking focuses on what causes a belief

Reason [R] : Critical thinking entails evaluation and formulation and it operates according to rational standards in that beliefs are judged by how well they are supported by reasons.

- (A) [A] is true but [R] is false
- (B) [A] is false but [R] is true
- (C) Both [A] and [R] are true, [R] is the correct explanation of (A)

(D) Both [A] and [R] are true, and [R] is not the correct explanation of [A]

(E) Answer not known

110. Match the List I with List II:

List I	List II
(Hydrated Salt)	(Uses)
(a) $FeSO_4 \cdot 7H_2O$	1. Textile Industry
(b) $Na_2CO_3 \cdot 10H_2O$	2. Laboratory Reagent
(c) $CuSO_4 \cdot 5H_2O$	3. Making of Mohr's Salt
(d) $ZnSO_4 \cdot 7H_2O$	4. Fungicide
(e) $BaCl_2 \cdot 2H_2O$	5. Manufacture of Glass

- | (a) | (b) | (c) | (d) | (e) |
|----------------------|-----|-----|-----|-----|
| (A) 5 | 3 | 4 | 1 | 2 |
| (B) 4 | 5 | 3 | 1 | 2 |
| (C) 3 | 5 | 4 | 1 | 2 |
| (D) 5 | 4 | 1 | 3 | 2 |
| (E) Answer not known | | | | |

111. If ZEBRA can be written as 2652181. How can COBRA be written?

- (A) 3102181
- (B) **3152181**
- (C) 3182215
- (D) 3182181
- (E) Answer not known

112. The instrument used to measure the atmospheric ozone concentration is

- (A) **Dobsonmeter**
- (B) Barometer
- (C) Hygrometer
- (D) Anemometer
- (E) Answer not known

113. Match the organism correctly with their corresponding order:

(a) Apis	1. Haplotaxidea
(b) Leech	2. Cyclophyllidea
(c) Earthworm	3. Hirudinea
(d) Taenia	4. Hymenoptera

- | (a) | (b) | (c) | (d) |
|----------------------|----------|----------|----------|
| (A) 1 | 2 | 3 | 4 |
| (B) 2 | 4 | 3 | 1 |
| (C) 3 | 2 | 4 | 1 |
| (D) 4 | 3 | 1 | 2 |
| (E) Answer not known | | | |

114. Which among the following is/are wrong about a fertilizer?

- (i) Fertilizer must be insoluble in water
 - (ii) It should maintain the pH of 10 to 13
 - (iii) It should not be poisonous to plants
- (A) Only (iii)
 - (B) **(i) and (ii) -**
 - (C) (i), (ii), (iii)
 - (D) Only (ii)
 - (E) Answer not known

115. Operation London Bridge is the
 (A) **Funeral Plan for Queen Elizabeth II** .
 (B) Process of selecting the Prime Minister of UK
 (C) Joint Military exercises of NATO countries
 (D) Evacuations due to Russia-Ukraine War
 (E) Answer not known
116. Which of the following is/are true about Doppler effect?
 (1) Doppler effect in light is symmetric
 (2) Doppler effect in sound is symmetric
 (3) Doppler effect in light is asymmetric.
 (4) Doppler effect in sound is asymmetric
 (A) (1) and (2) are correct
 (B) **(1) and (4) are correct**
 (C) (3) and (4) are correct
 (D) (2) and (3) are correct
 (E) Answer not known
117. Which one of following statement is correct about the aim of Pradhan Mantri Ujjwala Yojana (PMUY)
 (A) to provide Health Service and Clean Environment to Rural Women
 (B) **to provide clean energy fuel of liquified petroleum gas to all rural households.**
 (C) to provide clean water and environment
 (D) to provide quality food and health
 (E) Answer not known
118. What are the Forms of Central Bank Digital Currency (CBDC) proposed to be introduced by RBI?
 1. Account-based
 2. Token based
 (A) (1) only
 (B) (2) only
 (C) **(1) and (2)**
 (D) Neither (1) nor (2)
 (E) Answer not known
119. The government has initiated the following key aspects for facilitating the MSME sector:
 (i) Access to credit
 (ii) Access to market
 (iii) Technology upgradation
 (iv) Social security for MSME sector employers
 Select the correct option:
 (A) (i) and (ii) only
 (B) **(i), (ii) and (iii) only**
 (C) (ii) and (iv) only
 (D) (i), (ii), (iii) and (iv),
 (E) Answer not known
120. Which among the following is/are not associated with "Catch the Rain" campaign?
 (i) The campaign is launched by National Water Mission
 (ii) The campaign drives to make check dams and water harvesting pits
 (iii) The campaign stresses the removal of obstructions in the canals
 (iv) The campaign requested the central institutions to open rain centres to guide people to harvest rain
 (A) (i) only
 (B) (ii) and (iii) only
 (C) (i) and (ii) only
 (D) **(iv) only**
 (E) Answer not known
121. The abbreviated term VVPAT stands for
 (A) Voter Visit Poll Account Trail
 (B) Voter Vivid Press Audit Trail
 (C) **Voter Verifiable Paper Audit Trail**
 (D) Voter Verifiable Paper Account Trail
 (E) Answer not known
122. Match the following and select the correct answer
- | | | |
|-------------------------------|----|--------------------------------|
| (a) Nayak Committee | 1. | Unorganised sector |
| (b) Tarapore Committee | 2. | Centre-state relations |
| (c) Rajamannar Committee | 3. | Availability of Credit to SSI |
| (d) Arjun Sen Gupta Committee | 4. | Capital account Convertibility |
- (a) (b) (c) (d)
 (A) 4 3 2 1
 (B) 1 2 4 3
 (C) **3 4 2 1**
 (D) 3 2 1 4
 (E) Answer not known
123. Assertion [A] : The desert region of India can be divided into two parts – "The great desert" and "the little desert".
 Reason [R] : Between these two deserts lies a zone consisting of rocky land and cut up by limestone ridges.
 (A) [A] is true but [R] is false
 (B) **Both [A] and [R] are true, and [R] is the correct explanation of [A]**
 (C) [A] is false, [R] is true
 (D) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
 (E) Answer not known
124. Which one of the statements is correct for Li-ion batteries?
 (A) **While the battery is discharging, the anode releases lithium ion to the cathode**
 (B) While the battery is discharging, the cathode releases lithium ion to the anode
 (C) While the battery is charging, the anode releases lithium ion to the cathode
 (D) While the battery is charging, the cathode

- doesn't releases lithium ion to the anode
(E) Answer not known
125. The Beneficiaries of Moovalur Ramamirtham scheme are
(A) All primary school students
(B) Girls students who are studying from 1st to 5th Std
(C) **Girl students who are studying from 6th to 12th in government schools**
(D) Girls students of first generation in schools alone
(E) Answer not known
126. Which of the following is responsible for protecting humans from harmful ultraviolet rays?
(A) UV-A
(B) UV-C
(C) **Ozone layer**
(D) None of the above
(E) Answer not known
127. M. Visvesvaraya's birthday is celebrated as Engineer's Day in India. He was the Dewan of which Princely state?
(A) Hyderabad.
(B) Jodhpur
(C) **Mysore**
(D) Gwalior
(E) Answer not known
128. Which among the following statements is/are best explaining the objective of "Ennum Ezhuthum Scheme"?
- I. The scheme is launched to help the children make up the loss of learning due to corona pandemic.
 - II. The scheme is launched with the purpose of education for all.
 - III. The scheme is launched with noble objective of fastening equality in society.
 - IV. The scheme is launched with the aim that all children below 8 years of age should be able to read, write and know numerals by 2025.
- (A) I only
(B) I, II and III only
(C) II and IV only
(D) I and IV only
(E) Answer not known
129. Read the following passage and answer the item that follows :
- Agriculture continues to be the backbone of the state economy, as it provides livelihood security and food security. The overall crop yields in the state is bright. The South West monsoon rainfall was normal and its even distribution helped to recharge of ground-water considerably and kept the state with adequate storage. All these factors made the irrigation scenario in the state encouraging. As a result more area was brought under cultivation. The government also

- provided adequate and timely supply of inputs through its agricultural extension centres. Sufficient and timely crop loans were made available for the eligible farmers through primary Agricultural Cooperative Societies. Which of the following is best implied in the passage?
(A) Agriculture of the state still remain a lifeline for the people
(B) Due to proper rainfall and government effort to provide agricultural loan and inputs agriculture turned prosperity
(C) Primary agricultural cooperative banks play a crucial role in agricultural development
(D) Over exploitation of ground water to agricultural sector will affect the growth of other sectors
(E) Answer not known
130. Match the following :
- | Health Programmes | Aims/Goals |
|------------------------------------------------------------|----------------------------------------------------------------------|
| (a) Tamilnadu Health System Reform Program | 1. To provide modern and sophisticated health care facility for poor |
| (b) Tamilnadu Health System Project | 2. To improve the health outcomes of urban poor |
| (c) Chief Minister's Comprehensive Health Insurance Scheme | 3. To improve the health of lower Socio-economic groups |
| (d) Tamilnadu Urban Health Care Project | 4. To achieve SDG-3 |
- (A) 4 3 1 2
(B) 2 4 1 3
(C) 4 1 2 3
(D) 3 2 4 1
(E) Answer not known
131. Which is/are the provision inserted in the Central Universities (Amendment) Act, 2022
1. Establishment of Gati Shakti Vishwa vidyala
 2. Providing high quality teaching, research and skill development in diverse disciplines related to physical sciences
 3. Upgradation of State Universities to Central Universities
 4. Providing high quality teaching, research and skill development in diverse disciplines related

to transportation, technology and management

- (A) 1 and 2
(B) 2 and 3
(C) 1 and 3
(D) **1 and 4**
(E) Answer not known
132. Assertion [A] : Indian Government has taken up economic programmes for benefit of SCs and STs. Reason [R]: Provided small loans for the poorer section to help them to earn money through some secondary sources such as toy-making, basket making, agarbatti and beedi-rolling, tailoring, shoe-making etc.
(A) [A] is true but [R] is false
(B) **Both [A] and [R] are true, and [R] is the correct explanation of [A].**
(C) [A] is false [R] is true
(D) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
(E) Answer not known
133. Assertion [A] : When price decreases, purchasing power increases, and vice versa. Reason [R] : When the production of goods decline, the price of goods increases and then the purchasing power is affected.
(A) [A] is correct, [R] is false
(B) Both [A] and [R] are false statement
(C) **[A] is correct but [R] is not a correct explanation**
(D) [A] is correct, [R] is the correct explanation of [A]
(E) Answer not known
134. Choose the correct matches
- | | | |
|--------------|---|-----------------------------------------------------------------|
| 1. Art 371 | - | Provision with respect to the states of Maharashtra and Gujarat |
| 2. Art 371 A | - | Provision with respect to the state of Nagaland |
| 3. Art 371 D | - | Provision with respect to the state of Andhra Pradesh |
| 4. Art 371 H | - | Provision with respect to the state of Tamil Nadu |
- (A) 2 and 4 are correct
(B) 2, 3 and 4 are correct
(C) 1 and 4 are correct
(D) **1, 2 and 3 are correct**
(E) Answer not known
135. Match the following:
- | Chairman | Committee |
|-------------------------|-------------------------------------|
| (a) Kaka Kaleekar | 1. Tribal Development |
| (b) Xaxa | 2. 7th pay commission |
| (c) Mandal | 3. Second backward class commission |
| (d) Justice A.K. Mathur | 4. First backward class commission |

- (a) (b) (c) (d)
(A) 1 3 4 2
(B) 4 1 3 2
(C) **1 4 3 2**
(D) 3 2 4 1
(E) Answer not known

136. The objectives of the District Mental Health Programme are
1. To provide mental health services including prevention, promotion and long term care at District health care delivery system
 2. To augment institutional capacity in terms of infrastructure, equipment and human resource for mental health care
 3. Facilitating the mental health services at doorstep
 4. To promote community awareness and participation in the delivery of mental health services
- (A) 1, 2, 3 only,
(B) 2, 3, 4 only
(C) **1, 2, 4 only**
(D) 1, 3, 4 only
(E) Answer not known.
137. Arrange the following events associated with Periyar in chronological order :
1. Vaikom Satyagraha
 2. Non-Co-operation Movement
 3. Kallukadai Mariyal
 4. Leader of Chennai Congress Committee
- (A) **2, 3, 4, 1**
(B) 2, 4, 3, 1
(C) 2, 1, 3, 4
(D) 4, 2, 3, 1
(E) Answer not known
138. Choose the correct chronological order :
- (A) Rajadhiraja I, Parantaka I, Kulothunga I, Rajaraja I
(B) Kulothunga I, Parantaka I, Rajadhiraja I, Rajaditya I
(C) Parantaka I, Rajadhiraja I, Kulothunga I, Rajaraja I
(D) **Parantaka I, Rajaraja I, Rajadhiraja I, Kulothunga I**
(E) Answer not known
139. Which chapter in Thirukkural reflects the Northern Scholar's ideology of philosophical knowledge?
(A) Not Killing
(B) Instability
(C) Renunciation
(D) **Understanding the truth**
(E) Answer not known

140. Which of the following titles are related with Pandyas?
- Minavar
 - Villavar
 - Kudavar
 - Panchavar
- (A) (i) only
(B) (ii) only
(C) (i) and (iv) only
(D) (ii) and (iii) only
(E) Answer not known
141. Who said, "Tamizhodu Isaippaadal Maranthariyen"?
- (A) Thirugnana Sambandar
(B) Thirunaavukkarasar
(C) Sundarar
(D) Manikkavasagar
(E) Answer not known
142. Which Tamil Poet injected the spirit of Nationalism and National Integration?
- (A) Bharathidasan
(B) Bharathiyar
(C) Sudanandha Bharathi
(D) Kavimani
(E) Answer not known
143. What was the royal emblem of the Rashtrakutas?
- (A) Lion
(B) Golden Eagle
(C) Tiger
(D) Elephant
(E) Answer not known
144. Which of these actions cannot lead to Truth-Consciousness?
- (A) Porul Allavatrai Porul Endru Unarthal**
(B) Saarbu Unarndhu Saarbu Keda Ozhugal
(C) Aiyathin Neengi Thelithal
(D) Sirappu enum semporul Kaanpadhu
(E) Answer not known
145. "Vendharkku Oli" - What is the meaning propounded in this Thirukkural?
- Kodai (Donation)
 - Ali (Kindness)
 - Protective Sceptre (Sengol Kudiyombal)
- (A) (i) only
(B) (i), (iii) only
(C) (i), (ii) only
(D) (i), (ii) and (iii)
(E) Answer not known
146. Match the following:
- | | |
|---------------|--------------------|
| (a) Thaarugan | 1. Thaer Chakkaram |
| (b) Aazhi | 2. Arakkan |
| (c) Natriram | 3. Thevar |
| (d) Imaiavar | 4. Araneri |
- (a) (b) (c) (d)
(A) 1 2 3 4

- (B) 2 1 4 3**
(C) 3 1 2 4
(D) 4 3 2 1
(E) Answer not known
147. Match correctly the Excavated information with the Excavation sites :
- | | |
|--------------------------------|--------------------------------------------------|
| (a) Thanjavur excavation | 1. Roman Pottery |
| (b) Kilaiyur excavation | 2. Centre of Buddhism |
| (c) Tirukkampuliyur excavation | 3. Commercial contact between Rome and Tamilagam |
| (d) Uraiyyur excavation | 4. Culture of Kaveri |
- (a) (b) (c) (d)
(A) 1 2 4 3
(B) 3 4 2 1
(C) 4 3 1 2
(D) 2 3 1 4
(E) Answer not known
148. Which among the following Inscriptions mention the ancient word 'Madura'?
- Inscription at Siddharmalai
 - Inscription at Alagarmalai
 - Inscription at Mamandur
 - Inscription at Paatipurulu
- (A) (a) and (b) only,
(B) (a) and (c) only
(C) (b) and (d) only
(D) (c) and (d) only
(E) Answer not known
149. Who speaks the following lines in Barathiyar's 'Panchali Sabadham'?
- "Tharumathin Vazhvudhanai Soodhu Kavvum; Tharumam Marubadi Vellum".
- (A) Panchali
(B) Kannan
(C) Arjunan
(D) Tharuman
(E) Answer not known
150. Read the following and pick out the correct statements :
- Musical Pillars is one of the wonders of the Nayakka King's Rule
 - Music created by rhythmic hitting of stones is wondered by International Musicians
 - In the Thousand Pillared Hall of Meenakshi Temple in Madurai, one can find small pillars that exude music when played upon
 - The Arthanaareeswara Temple at Rameshwaram consists of Pillars than can be played to bring out the seven swaras (Notes)

- (A) (i) and (ii) alone are correct
(B) (i), (ii) and (iii) alone are correct
 (C) (i), (ii), (iii) and (iv) all are correct
 (D) (i), (ii) and (iv) alone are correct
 (E) Answer not known

151. Choose the right answer :

Which of the following statements are true about the Cholas?

- (i) The first mention of the cholas is in the Asokan inscription
 (ii) They were independent rulers in Tamilagam
 (iii) Kanyakumari Inscription and Anbil Plates give information of the early Cholas

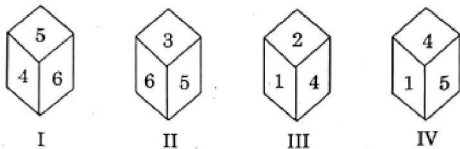
- (A) (i) is correct
 (B) (i) and (ii) are correct
(C) (i), (ii) and (iii) are correct
 (D) (i) and (iii) are correct
 (E) Answer not known

152. Find the missing number in the place of?

1	2	3
4	5	6
7	8	9
27	38	?

- (A) 49
 (B) 50
(C) 51
 (D) 52
 (E) Answer not known

153. Four pictures of a cube are given below which number is on the face opposite to 3?



- a. 1 b. 2
 c. 4 d. 5
 e. Answer not known

154. The next term of the Alphanumeric series C4X, F9U, I16R, is

- (A) K25P
 (B) L25P
(C) L250.
 (D) L27P
 (E) Answer not known

155. A mat of length 180 m is made by 15 women in 12 days. How long will it take for 32 women to make a mat of length 512 m?

- (A) 8 days
 (B) 12 days
(C) 16 days

- (D) 20 days
 (E) Answer not known

156. Find the area of an equilateral triangle whose perimeter is 180 cm.

- (A) 1558.8 cm²**
 (B) 1885.5 cm²
 (C) 1585.8 cm²
 (D) 1888.5 cm²
 (E) Answer not known

157. The CI on 15,000 for 3 years if the rate of interests are 15%, 20% and 25% for the I, II and III year respectively is

- (A) 10,875**
 (B) 10,785
 (C) 10,885
 (D) 10,775
 (E) Answer not known

158. An apple costs Rs. 60, a guava costs Rs. 90 and a mango costs Rs. 60. How much a pomegranate cost?

- (A) 60
 (B) 90
 (C) 120
(D) 150
 (E) Answer not known

159. In what time will Rs. 8,000 at 3% per annum, produce the same interest as 7 6,000 does in 5 years at 4% simple interest?

- (A) 5 years**
 (B) $5 \frac{1}{2}$ years
 (C) 3 years
 (D) $3 \frac{1}{2}$ years

(E) Answer not known

160. If $A : B = 2 : 3$, $B : C = 2 : 4$, $C : D = 2 : 5$, then $A : D$ is equal to

- (A) 1:5
 (B) 2 : 5
 (C) 3:5
(D) 2 : 15
 (E) Answer not known

161. The Lowest Common Multiple (LCM) of two numbers is 6 times of their Highest Common Factor (HCF). If the HCF is 12 and one of the number is 36, then the other number is

- (A) 48
 (B) 72
(C) 24
 (D) 12
 (E) Answer not known

162. Find the HCF of the polynomials $6x^3 - 30x^2 + 60x - 48$ and $3x^3 - 12x^2 + 21x - 18$

- (A) $(x^3 - 3x + 2)(x - 1) \cdot 3$
 (B) $(x^3 - 3x + 2)(x - 2) \cdot 3$
(C) 3(x-2)

- (D) $(x-2)(x-1) 3$
 (E) Answer not known
163. Simplify: $100 + 8 \div 2 + \{(3 \times 2) - 6 \div 2\}$
 (A) 123
(B) 107
 (C) 113
 (D) 103
 (E) Answer not known
164. Which of the following statements about GST council is not true?
- The members of the GST council choose one amongst themselves to be the vice-chairperson of the council.
 - Every decision of the GST council shall be taken by a meeting of not less than two-third of the weighted votes of the members present and voting.
 - One-half of the total number of members of the GST council constitute the quorum at its meeting.
- (A) 1 and 2
 (B) 2 and 3
 (C) 1 and 3
 (D) 1, 2 and 3
 (E) Answer not known
165. Pick out the correct abbreviation for the word "PURA"?
- (A) Providing urban amenities in right areas
 (B) Providing usual amenities in rural areas
 (C) Providing urban amenities in regional areas
(D) Provision of urban amenities in rural areas
 (E) Answer not known
166. Which of the following measures have been taken to attain the aims of the new industrial policy?
- Industrial Licensing
 - Foreign Investment
 - Foreign trade Policy
 - Public sector management
- (A) (1) and (4) only
(B) (2) and (3) only
 (C) (1), (2) and (4) only
 (D) (1), (2), (3) and (4)
 (E) Answer not known
167. The Monetary Policy of the Government of India emphasised the following two aims of the economic policy
- To control and reduce inflationary pressure in the economy.
 - Speed up economic development in the country to raise national income and standard of living of the people.
 - To increase the per capita income.
 - To have a cheap money policy.
- Select the correct answer by using the codes

- given below:
- (A) (i) and (iii) are correct
 (B) (i) and (ii) are correct
 (C) (ii) and (iii) are correct -
 (D) (iii) and (iv) are correct
 (E) Answer not known
168. According to Indian Tourism Statistics 2022, which tourist place is most visited by Foreign tourists?
- (A) Taj Mahal**
 (B) Statue of Unity
 (C) Mahabalipuram -
 (D) Varanasi
 (E) Answer not known
169. Which one of the following is not addressed in Mission POSHAN 2.0?
- (A) Malnutrition in children
 (B) Malnutrition in adolescent girls
 (C) Pregnant and lactating mothers
(D) Malnutrition in elderly.
 (E) Answer not known
170. Which of the following statements about Index of Industrial Production (IIP) are correct?
- The IIP is a key economic indicator of the manufacturing activity in various sectors of economy.
 - IIP data is regularly published by Central Statistical Organisation (CSO).
 - The base year for IIP is 2011-12.
- (A) 1 and 2 only
 (B) 1 and 3 only
 (C) 2 and 3 only
(D) 1, 2 and 3
 (E) Answer not known
171. Nehru-Mahalanobis planning model was based on the following strategies emphasised are
- High rate of saving
 - Preferred a heavy industry
 - Discouraged import substitution
 - Safeguard infant industry
- (A) (i) and (ii) correct
 (B) (i), (ii) and (iii) correct
 (C) (i), (ii) and (iv) correct
 (D) (i), (ii), (iii) and (iv) correct
 (E) Answer not known
172. "British rule was established in India with the cooperation of Indians, and had survived only because of this co-operation. If Indians refused to co-operate, British rule in India would collapse with in a year and Swaraj would come," who said this?
- (A) Sardar Vallabhai Patel
 (B) Motilal Nehru
(C) Mahatma Gandhiji
 (D) Bal Gangadhar Tilak
 (E) Answer not known

173. In 1944, the Government of India setup a planning department under the Chairmanship of
 (A) S.N. Agarwal
 (B) M.N. Roy
 (C) Dr. John Mathai
 (D) **Sir Ardesir Dalal**
 (E) Answer not known
174. Match List I and List II and select the correct answer using the codes given below the Lists :
- | List I | | List II | |
|-----------------------------------------|----|---------|--|
| (a) Resignation of Congress Ministries | 1. | 1943 | |
| (b) Neil Statue Satyagraha | 2. | 1942. | |
| (c) Quit India Resolution | 3. | 1927 | |
| (d) Provincial Government of Free India | 4. | 1939 | |
- (a) (b) (c) (d)
 (A) 4 3 1 2
 (B) 2 1 4 3
 (C) **4 3 2 1**
 (D) 4 1 2 3
 (E) Answer not known
175. Who was arrested by the British Government for the Bomb explosion on 1933 at Srivilliputtur Police Station?
 (A) Sathyamurthy
 (B) Parthasarathy
 (C) **Kamaraj**
 (D) Ananthakrishnan
 (E) Answer not known
176. What is the title of the Doctoral Thesis of Dr. B.R. Ambedkar in 1923?
 (A) **The problem of the Rupee**
 (B) Caste system
 (C) Untouchability in India
 (D) Unbritish Rule in India
 (E) Answer not known
177. Which of the following is incorrect?
 (A) The Indian National Congress boycotted the First Round Table Congress
 (B) Gandhiji attended the Second Round Table Congress
 (C) **After the Second Round Table conference the Gandhi-Irwin pact was signed**
 (D) Communal Award was associated with Third Round Table Conference
 (E) Answer not known
178. 'Damin-i-koh' was the land given by the British to the
 (A) **Santhal tribes**
 (B) Kolu tribes
 (C) Garo tribes
 (D) Munda tribes
 (E) Answer not known

179. Acid rains are produced by
 (A) **Excess NO₂ and SO₂ from burning fossil fuels**
 (B) Excess production of NH₃ by industry and coal gas
 (C) Excess release of carbon monoxide by incomplete combustion.
 (D) Excess formation of CO₂ by combustion and animal respiration
 (E) Answer not known
180. Why is the Himalayan region poor in mineral resources?
 (A) **Displacement of rock strata has disturbed the arrangement of rocks and made it complex**
 (B) It is made up of crystalline rock
 (C) The terrain makes exploitation of minerals difficult
 (D) The climatic conditions are not suitable for exploitation of minerals
 (E) Answer not known
181. Consider the statement given below and choose the correct answer:
 Assertion [A]: Cultural diffusion is the spread of cultural beliefs and social activities from one group of people to another
 Reason [R]: Cultural landscapes have been defined by the world heritage committee as cultural properties representing the combined works of nature and of man
 (A) Both [A] and [R] are true: [R] explains [A]
 (B) Both [A] and [R] are true: [R] does not explain [A]
 (C) [A] is true [R] is false
 (D) [A] is false [R] is true
 (E) Answer not known
182. Asthamudi is an important lagoon of the coast.
 (A) **Malabar coast**
 (B) Konkan coast
 (C) Cholamandel coast
 (D) Northern circar coast
 (E) Answer not known
183. Which of the following statements are true about population growth of India?
 (i) Bihar, Uttarpradesh, Madhya Pradesh, Rajasthan and Orissa, which constitute 44% of the total population of India in 1996.
 (ii) Bihar, Uttarpradesh, Madhya Pradesh, Rajasthan and Orissa, which constitute 48% of the total population of India in 2016.
 (iii) These states contributed 70% of the total increase in population of the country during the period of 1996-2016.
 (A) (i) only

- (B) (i) and (iii) only
 (C) (i) and (ii) only
 (D) (ii) and (iii) only
 (E) Answer not known
184. Choose the right matches
1. Khizr Khan - Orissa
 2. Durgavati - Gondwana
 3. Rana Udai Singh - Mewar
 4. Kunwar Man Singh - Ajmir
- (A) 1 and 2 are correct
(B) 2 and 3 are correct
 (C) 1 and 4 are correct
 (D) 3 and 4 are correct
 (E) Answer not known
185. In A.D. 1894, the Kashi Nagri Pracharini Sabha was founded in
- (A) Delhi
 (B) Bombay
 (C) Madras
 (D) Calcutta
 (E) Answer not known
- Answer : May be Varanasi**
186. Who was the first person to place the demand for a separate Muslim state in British India?
- (A) **Mohammad Iqbal**
 (B) Muhammad Ali Jinnah
 (C) Rahmat Ali
 (D) Mountbatten
 (E) Answer not known
187. Assertion (A) : Federalism is merely an institutional arrangement for sharing power across multiple levels of government based on the principle of shared rule and self rule.
 Reason [R]: Federations, have constantly adjusted and adopted depending on political, social and economic situations.
- (A) [A] is true but [R] is false
(B) Both [A] and [R] are true and [R] is correct explanation of [A]
 (C) [A] is false but [R] is true
 (D) Both (A) and (R) are true but [R] is not the correct explanation of [A]
 (E) Answer not known
188. Which of the following statements are true about Buddhism?
1. Buddhism denied the authority of Vedas
 2. Buddha's teachings were largely based on Brahmanic ideas of Punarjanma, Karma and Moksha
 3. Buddhism was not practical and ethical
 4. Buddhism accepts God as creator
- (A) 1, 2, 3 are correct
 (B) 1 and 2 are correct
 (C) Only 2 is correct
 (D) 3 and 4 are correct
- (E) Answer not known
189. Which of the following statements about the Gupta society is true?
1. The Gupta emperors called themselves as Parama Bhagavatas
 2. Trade with Rome and China flourished
 3. Women were debarred from exercising public rights
 4. The custom of Sati was practiced by them
- (A) 1 and 3 are correct
 (B) 3 and 4 are correct
 (C) Only 4 is correct
 (D) 1, 2 and 4 are correct
 (E) Answer not known
190. Why Ulama's had great influence in Muslim society, politics, administration and religion?
- (A) They were in great numbers during the Delhi Sultanate
 (B) Due to their holy living and high thinking
(C) They were well-versed in Muslim theology and Fiqh.
 (D) They controlled trade and industry
 (E) Answer not known
191. Which of the following are wrongly paired?
- (1) Obligation for the state and individual to protect environment - Art 48A
 - (2) Early childhood care and education for all children until they complete the age of fourteen years - Art 45
 - (3) Separate judiciary from the executive in the public services of the state - Art 39
 - (4) Voluntary formation, autonomous functioning of cooperative societies - Art 44
- (A) (1), (3) and (4) only
 (B) (2), (3) and (4) only
 (C) (1) and (2) only.
(D) (3) and (4) only
 (E) Answer not known
192. Assertion [A] : Rule of law entails that all persons, both public and private institutions, the state and other entities are accountable to publicly promulgated laws.
 Reason [R] : The rule of law forms the base to international peace and security, and it is at the core to protect people's rights and their fundamental freedom.
- (A) [A] is true but [R] is false
(B) Both [A] and [R] are true and [R] is correct explanation of [A]
 (C) [A] is false but [R] is true
 (D) Both [A] and [R] are true but [R] is not the correct explanation of [A]
 (E) Answer not known
193. Identify the incorrect statement about Lok adalat

- (A) Lok adalat is a mechanism for speedy trial of the disputes
(B) It is not a tool of the legal system
 (C) It is a kind of forum to settle cases in an amicable manner
 (D) Lok adalat goes to the people to deliver justice at their door steps
 (E) Answer not known

194. Which of the following statements is/are not true about the 'governor'?

- (A) He appoints the Advocate General of a State
(B) He appoints the Chancellor of Universities in the State
 (C) He appoints the Chief Minister.
 (D) He appoints the state Election Commissioner
 (E) Answer not known

195. Match the following:

Subject Protected	Year of the enactment
(a) Beedi and Cigar worker	1. 1979
(b) Contract labour	2. 1976
(c) Equal remuneration	3. 1970
(d) Migrant workmen Employment Regulation	4. 1966
(a) (b) (c) (d)	
(A) 1 2 3 4	
(B) 4 3 2 1	
(C) 3 2 4 1	
(D) 2 3 4 1	
(E) Answer not known	

196. Need for a constitution for free India was first suggested by

- (A) Motilal Nehru
(B) M.N. Roy
 (C) Subash Chandra Bose
 (D) Mahatma Gandhi
 (E) Answer not known

197. In a Modern Democratic state, citizenship is a

- (A) Natural right
 (B) Legal Right
 (C) Statutory right
 (D) Fundamental right.
 (E) Answer not known

198. Match the following:

(a) Pitt's India Act, 1784	1. Decentralization of the legislative powers of Governor-General
(b) Charter Act, 1813	2. Governor-General's Government was known as Government of India for the first

- (c) Charter Act, 1833 3. time
Appointment of Board of control of six members

- (d) Indian councils Act, 1861 4. Deprivation of East Indies Company's monopoly of trade in India

	(a)	(b)	(c)	(d)
(A)	1	2	3	4
(B)	3	4	2	1
(C)	4	3	2	1
(D)	1	3	2	4
(E)	Answer not known			

199. Which one of the following statement(s) is not correct about the Indus Valley People?

- (i) The Indus Valley People worshipped trees and animals
 (ii) The principal deity of Indus Valley People was Krishna
 (iii) The Indus Valley People worshipped fire and water
 (iv) The principal deity of Indus Valley People was mother goddess
 (A) (i) and (iii) only
(B) (ii) only
 (C) (i) and (ii) only
 (D) (ii) and (iii) only
 (E) Answer not known

200. Who said, Delegated legislation and administrative tribunals are the manifestation of "New despotism"?

- (A) John E. Kersell,
 (B) Sir Cecil Carr
(C) Lord Heward
 (D) D.L. Hewit
 (E) Answer not known
