

**Union Public Service Commission**  
**Central Police Forces**  
**(Assistant Commandants) Exam**  
**October 2003 Question Paper (Fully Solved)**

**GENERAL ABILITY AND INTELLIGENCE**

1. Which one of the following is not a Defence Public Sector Undertaking ?

- (a) Bharat Dynamics Limited  
 (b) Mishra Dhatu Nigam Limited  
 (c) Bharat Earth Movers Limited  
 (d) Hindustan Shipyard Limited

2. Match List-I (Defence Training Institutes) with List-II (Locations) and select the correct answer using the codes given below the lists :

<i>List-I</i> (Defence Training Institutes)	<i>List-II</i> (Locations)
A. Army School of Physical Training	1. Dr. Ambedkar Nagar (Mhow)
B. College of Defence Management	2. Secunderabad
C. Naval College of Engineering	3. Pune
D. Military College of Telecommunication Engineering	4. Lonavala
	5. Dehradun

Codes :

	A	B	C	D
(a)	3	1	4	2
(b)	5	2	3	1
(c)	3	2	4	1
(d)	5	1	3	2

3. In the decreasing order of the length of the rivers, the correct sequence is

- (a) Brahmaputra—Ganga—Godavari—Narmada  
 (b) Ganga—Godavari—Brahmaputra—Narmada  
 (c) Brahmaputra—Narmada—Godavari—Ganga  
 (d) Ganga—Brahmaputra—Godavari—Narmada

4. The Tropic of Cancer passes through

- (a) India and Iran  
 (b) Iran and Pakistan  
 (c) India and Saudi Arabia  
 (d) Iran and Iraq

5. Consider the following statements :

1. The Constituent Assembly started functioning in December 1946.  
 2. Jawaharlal Nehru was the Chairman of the Constituent Assembly.

3. The Constituent Assembly adopted the Constitution of India on 26th November, 1949.

Which of these statements is/are correct ?

- (a) 1, 2 and 3 (b) 1 and 3  
 (c) 3 only (d) 1 only

6. In a tragic incident in June 2003, an international footballer died while playing an international match. He was playing for

- (a) Colombia (b) Brazil  
 (c) Cameroon (d) Argentina

7. Which of the following Indian cricketers was/were *never* appointed as captain of the Indian Test Cricket Team ?

1. S. Venkataraghavan  
 2. K. Srikanth  
 3. Mohinder Amarnath  
 4. Syed Kirmani

Select the correct answer using the codes given below :

- Codes :  
 (a) 1 and 3 (b) 4 only  
 (c) 3 and 4 (d) 2 only

8. Consider the following statements :

1. The Constitution (42nd Amendment) Act was enacted during the emergency.  
 2. The amendments under this Act restricted the jurisdiction of the Supreme Court and the High Courts.

Which of these statements is/are correct ?

- (a) 1 only (b) 2 only  
 (c) Both 1 and 2 (d) Neither 1 nor 2

9. Recommendations to the President on the specified Union-State fiscal relations are made by the

- (a) Finance Ministry  
 (b) Reserve Bank of India  
 (c) Finance Commission  
 (d) Planning Commission

10. Which one of the following instruments is used in a submarine to get the view above the surface of water ?

- (a) Periscope  
 (b) Telescope  
 (c) Digital camera  
 (d) Kaleidoscope

11. Match List-I (Tennis Players) with List-II (Countries) and select the correct answer using the codes given

below the Lists :

<i>List-I</i> (Tennis Players)	<i>List-II</i> (Countries)
A. Justine Henin-Hardenne	1. Belgium
B. Kim Clijsters	2. England
C. Tim Henman	3. Australia
D. Andy Roddick	4. US
	5. Spain

Codes :

	A	B	C	D
(a)	1	4	3	4
(b)	5	1	2	3
(c)	1	1	2	4
(d)	5	4	3	2

12. Who among the following Indian hockey players is the goalkeeper of the Indian Hockey Team ?

- (a) Dilip Tirkey (b) Sandeep Michael  
 (c) Devesh Chauhan (d) Bimal Lakra

13. Consider the following statements :

1. Indian Railways have seven zones.  
 2. Jan Shatabdi trains were introduced in the 150th year of the Indian Railways.  
 3. The Research, Design and Standards Organisation which functions as a consultant to the Indian Railways in technical matters is located in Allahabad.

Which of these statements is/are correct ?

- (a) 1 and 2 (b) 1, 2 and 3  
 (c) 2 only (d) 1 and 3

**Directions (Qs. 14 to 19) : Four students—Paul, Mushtaq, Aryan and Varun are studying in four different cities—Harshnagar, Nayanagar, Janaknagar and Rajnagar (not necessarily in that order). They are studying in Science College, Arts College, Commerce College and**

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**Engineering College (not necessarily in that order) which are situated in four different States—Uttaranchal, West Bengal, Tamil Nadu and Maharashtra (not necessarily in that order).**

Further it is given that

- (i) Varun is studying in Tamil Nadu.
- (ii) Arts College is located in Rajnagar which is situated in West Bengal.
- (iii) Paul is studying in the Commerce College.
- (iv) Mushtaq is studying in Nayanagar.
- (v) Science College is located in Maharashtra.

Based on the above information, answer the following six questions :

14. Paul is studying in  
 (a) West Bengal (b) Uttaranchal  
 (c) Nayanagar (d) Maharashtra
15. Science College is located in  
 (a) Nayanagar (b) Tamil Nadu  
 (c) Janaknagar (d) Harshnagar
16. Which one of the following statements is correct ?  
 (a) Varun is not studying at Rajnagar  
 (b) Paul is studying in the Science College  
 (c) Paul is studying in Maharashtra  
 (d) Engineering College is located in Uttaranchal
17. Select the correct statement about the Engineering College :  
 (a) Aryan is studying there  
 (b) Mushtaq is studying there  
 (c) It is located in Uttaranchal  
 (d) Varun is studying there
18. Which one of the following statements is correct ?  
 (a) Engineering College is located in Tamil Nadu  
 (b) Nayanagar is situated in Tamil Nadu  
 (c) Aryan is studying in Maharashtra  
 (d) Mushtaq is studying in Uttaranchal
19. Aryan is studying in  
 (a) The Science College  
 (b) West Bengal  
 (c) Uttaranchal  
 (d) Nayanagar

20. A and B walk around a circular park. They start at 8 a.m. from the same point in the opposite directions. A and B walk at the speeds of 2 rounds per hour and 3 rounds per hour respectively. How many times shall they cross each other before 9.30 a.m. ?  
 (a) 5 (b) 6 (c) 7 (d) 8

21. Consider the following statements :  
 1. Polar diameter of the earth is about 40 km larger than its equatorial diameter.  
 2. The most abundant element in the earth's crust is oxygen.  
 3. On summer solstice, sun's rays fall vertically on the Tropic of Cancer.

Which of these statements is/are correct ?

- (a) 1, 2 and 3 (b) 1 and 3
  - (c) 2 and 3 (d) 2 only
22. When Cripps' Mission came to India, who among the following was the Viceroy of India ?  
 (a) Lord Irwin (b) Lord Linlithgow  
 (c) Lord Wavell (d) Lord Willingdon
23. Consider the following statements :  
 1. India gave up the status of Dominion on 15th August, 1947.  
 2. The Government of India Act of 1935 was amended and made the provisional Constitution of India till the Constituent Assembly of India framed a new Constitution.  
 3. Constituent Assembly functioned only as a Constitution-making body and not as a provisional Parliament of India.

Which of these statements is/are correct ?

- (a) 1, 2 and 3 (b) 2 and 3
  - (c) 1 and 3 (d) 2 only
24. Match List-I (National Parks/Sanctuaries) with List-II (States) and select the correct answer using the codes given below the Lists :

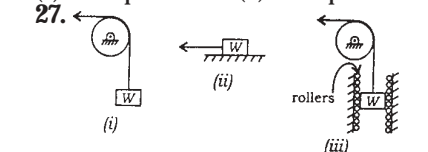
<i>List-I</i> (National Parks/ Sanctuaries)	<i>List-II</i> (States)
A. Nandadevi National Park	1. Rajasthan
B. Keoladeo National Park	2. Assam
C. Manas Wildlife Sanctuary	3. Gujarat
D. Sasan Gir National Park	4. Mizoram
	5. Uttaranchal

Codes :

A	B	C	D
(a) 2	3	4	1
(b) 5	1	2	3
(c) 2	1	4	3
(d) 5	3	2	1

25. Which one of the following is not an official language of the United Nations Organisation ?

- (a) Arabic (b) Russian
  - (c) Chinese (d) German
26. A train starts from Delhi for Mumbai at 5.30 a.m., while another train starts from Mumbai at 6.00 a.m. for Delhi. Both the trains run at the same speed and each takes 24 hours to complete the journey. When shall the trains cross each other ?  
 (a) 5.35 p.m. (b) 5.45 p.m.  
 (c) 6.10 p.m. (d) 6.15 p.m.



A weight W is pulled by three different arrangements as shown in the figures given above. To move the weight W

- (a) Minimum force is required in the arrangement (i)
- (b) Minimum force is required in the arrangement (ii)
- (c) Minimum force is required in the arrangement (iii)
- (d) Same force is required in all the three arrangements

28. Which one of the following is not a principal organ of the United Nations Organisation ?

- (a) International Court of Justice
- (b) Economic and Social Council
- (c) Trusteeship Council
- (d) Food and Agriculture Organisation

29. Match List-I with List-II and select the correct answer using the codes given below the Lists :

<i>List-I</i>	<i>List-II</i>
A. Chilka Lake	1. Kerala
B. Alappuzha	2. Orissa
C. Fort Aguda	3. Port Blair
D. Cellular Jail	4. Goa
National Memorial	5. Hyderabad

Codes :

A	B	C	D
(a) 2	1	4	3
(b) 3	4	5	2
(c) 2	4	5	3
(d) 3	1	4	2

30. Consider the following statements :

- 1. Switzerland became a member of the United Nations Organisation only in 2002.
- 2. Year 2003 has been declared as the 'International Freshwater Year' by the United Nations Organisation.
- 3. The Headquarters of the International Civil Aviation Organisation are in Montreal, Canada.

Which of these statements are correct ?

- (a) 1, 2 and 3 (b) 1 and 2
- (c) 2 and 3 (d) 1 and 3

31. Consider the following statements :

- 1. Bengal was separated into two provinces during the term of Lord Minto as the Viceroy of India.
- 2. Simon Commission came to India while Lord Irwin was the Viceroy of India.
- 3. The Government of India Act of 1919 is also known as Montagu-Chelmsford Reforms.

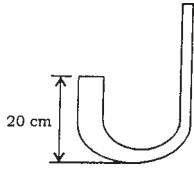
Which of these statements are correct ?

- (a) 1, 2 and 3 (b) 1 and 2
- (c) 1 and 3 (d) 2 and 3

32. In a circle, points A and B lie on the opposite ends of a diameter while point C lies on the circumference. Given : AC = 16 cm, BC = 12 cm.

- Then, the length AB  
 (a) Is equal to 32 cm  
 (b) Is equal to 28 cm  
 (c) Is equal to 20 cm  
 (d) Cannot be determined from the given data

33.



The diameters of the left limb and the right limb of a U-tube, as shown in the figure given above, are 4 cm and 2 cm respectively. A liquid is poured into the U-tube till the left limb is full. The level of the liquid in the right limb will rise to a height of

- (a) 20 cm (b) 40 cm (c) 60 cm (d) 80 cm

34. Which one of the following States shares boundaries with the maximum number of other States of India ?

- (a) Madhya Pradesh (b) Maharashtra  
(c) Assam (d) Bihar

35. Which of the following is a cash crop ?

- (a) Wheat (b) Millets  
(c) Rice (d) Rubber

36. Match List-I (Temples/Heritage Sites) with List-II (States) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Temples/Heritage Sites)	<i>List-II</i> (States)
A. Brihadeswara Temple	1. Orissa
B. Dilawara Temple	2. Tamil Nadu

- C. Lingaraja Temple  
D. Hampi Group of Monuments
3. Karnataka  
4. Rajasthan  
5. Kerala

Codes :

	A	B	C	D
(a)	1	3	5	4
(b)	2	4	1	3
(c)	2	3	1	4
(d)	1	4	5	3

37. If 8 men or 12 women can do a piece of work in 25 days, then in how many days can the same work be done by 6 men and 11 women ?

- (a) 12 days (b)  $13\frac{1}{2}$  days  
(c) 15 days (d) 18 days

38. Rs. 782 are divided into three parts proportional to the fractions

$$\frac{1}{2}, \frac{2}{3} \text{ and } \frac{3}{4}. \text{ Then the first part is}$$

- (a) Rs. 182 (b) Rs. 190  
(c) Rs. 196 (d) Rs. 204

39. If the duty on an article is reduced by 40% of its present rate, then by how much percent must the consumption increase in order that the revenue remains unaltered ?

- (a) 60% (b)  $62\frac{1}{3}\%$   
(c)  $66\frac{2}{3}\%$  (d) 72%

40. A train passes through a tunnel, whose length is 500 metres, in 1 minute while running at the speed of 72 km per hour. The length of the train is

- (a) 700 metres (b) 750 metres  
(c) 800 metres (d) 825 metres

41. Match List-I (Persons) with List-II (Organisations) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Persons)	<i>List-II</i> (Organisations)
A. C. P. Jain	1. Indian Oil Corporation
B. M. S. Ramachandran	2. National Thermal Power Corporation
C. Sunil Arora	3. Securities and Exchange Board of India
D. G. N. Bajpai	4. Indian Airlines

Codes :

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

42. Consider the following statements related to the 50th National Film Awards :

1. Aishwarya Rai got the Best Actress award for her role in the film *Devdas*.

- Aparna Sen got the Best Director award for the film *Mr. and Mrs. Iyer*.
- Konkona Sen got the Best Actress award for her role in the film *Mr. and Mrs. Iyer*.
- Sanjay Leela Bhansali got the Best Director award for the film *Devdas*.

Which of these statements are correct ?

- (a) 1 and 2 (b) 2 and 3  
(c) 3 and 4 (d) 1 and 4

43. Consider the following statements :

- In July 2003, East Bengal Club won the LG Asean Cup Football tournament defeating Bec Tero Sasana Club of Indonesia at Jakarta.
- Sandip Nandy of East Bengal Club was adjudged the best goalkeeper of this tournament.
- Baichung Bhutia of East Bengal Club was the highest goal scorer of the tournament.

Which of these statements are correct ?

- (a) 2 and 3 (b) 1 and 3  
(c) 1 and 2 (d) 1, 2 and 3

44. Match List-I with List-II and select the correct answer using the codes given below the Lists :

List-I	List-II
A. Linux	1. Internet
B. Pentium	2. Programming language
C. C++	3. Microprocessor
D. Modem	4. Operating system
	5. Laser printer

Codes :

A	B	C	D
(a) 2	1	5	3
(b) 4	3	2	1
(c) 2	3	5	1
(d) 4	1	2	3

45. Consider the following statements :

- Indo-Tibetan Border Police was raised after the Chinese aggression.
- Border Security Force was raised in 1965.
- Sardar Vallabhbhai Patel National Police Academy is located in Udaipur.

Which of these statements are correct ?

- (a) 1, 2 and 3 (b) 1 and 2  
(c) 2 and 3 (d) 1 and 3

46. Rakesh got married 8 years ago.

His present age is  $\frac{6}{5}$  times his age at the time of his marriage. Rakesh's sister was 10 years younger to him at the time of his marriage. The age of Rakesh's sister is

- (a) 40 years (b) 38 years  
(c) 36 years (d) 32 years

47. A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot at the rate of 4 km per hour and partly on bicycle at the rate of 9 km per hour. The distance travelled on foot is

- (a) 17 km (b) 16 km  
(c) 15 km (d) 14 km

48. Bhimbetika, which has been conferred the status of World Heritage Site, is situated in

- (a) Orissa (b) Rajasthan  
(c) Madhya Pradesh (d) Bihar

49. Prof. Raghuram Rajan has recently been appointed the Chief Economist of

- (a) World Trade Organisation  
(b) World Bank  
(c) International Monetary Fund  
(d) Economic and Social Council of the UNO

50. The autobiography *Living History* has been authored by

- (a) Margaret Atwood  
(b) Benazir Bhutto  
(c) Hillary Clinton  
(d) Monica Lewinsky

51. Which one of the following pairs is *not* correctly matched ?

- (a) Jacques Chirac :  
President of France  
(b) Gerhard Schroeder :  
Chancellor of Germany  
(c) Silvio Berlusconi :  
Prime Minister of Italy  
(d) Jean Chretien : President of Austria

52. Which one of the following pairs is *not* correctly matched ?

- (a) Nalin Surie :  
Ambassador to America  
(b) Shiv Shankar Menon :  
High Commissioner to Pakistan  
(c) S. K. Sinha :  
Governor of Jammu & Kashmir  
(d) K. Kasturirangan :  
Chairman, Indian Space  
Research Organisation

53. No biosphere reserve has been set up at

- (a) Nilgiri (b) Sunderbans  
(c) Gulf of Mannar (d) Gulf of Kutch

54. Consider the following statements :

- ANTRIX is the commercial arm of ISRO for marketing Indian space capabilities.
- MEGHA-TROPIQUES is a joint satellite mission of ISRO and Russian Space Agency for atmospheric studies.

Which of these statements is/are correct ?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

55. Bauxite is the principal ore of

- (a) Copper (b) Aluminium  
(c) Iron (d) Zinc

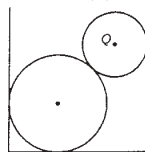
56. Consider the following statements :

- State Central Library is located at Mumbai.
- National Library is located at New Delhi.

Which of these statements is/are correct ?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

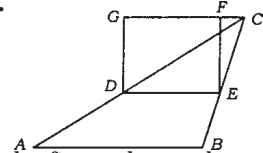
57.



In the figure shown above, two spherical balls of diameter 24 cm and 16 cm are placed inside a cylindrical vessel of 32 cm diameter. The height of the centre Q of the smaller spherical ball above the base of the cylindrical vessel is

- (a) 28 cm (b) 30 cm (c) 32 cm (d) 33 cm

58.



In the figure shown above, points D and E are the middle points of the sides AC and BC respectively. The areas of triangle ABC and rectangle DEFG are in the ratio

- (a) 3 : 1 (b) 1 : 1  
(c) 2 : 1 (d) 2.5 : 1

59. Select the correct sequence in the decreasing order of contributing to the forest cover of India :

- (a) Dense forest—Open forest—Mangrove forest  
(b) Open forest—Dense forest—Mangrove forest  
(c) Dense forest—Mangrove forest—Open forest  
(d) Open forest—Mangrove forest—Dense forest

60. Which one of the following pairs is *not* correctly matched ?

- (a) Indira Gandhi  
Rashtriya Manav  
Sangrahalaya : Bhopal  
(b) Ramakrishna Mission  
Institute of Culture : Kolkata  
(c) Khuda Bakhsh  
Oriental Public Library : Lucknow  
(d) Anthropological  
Survey of India  
(Headquarters) : Kolkata

61. Consider the following statements :  
The Estimates Committee

- is an ad hoc committee.
- has members from both the Houses of Parliament.
- has members drawn entirely from the Lok Sabha.

Which of these statements is/are correct ?

- (a) 1 and 2 (b) 1 and 3  
(c) 2 only (d) 3 only

62. The Fundamental Duties of the Indian citizens were laid down by which of the following Amendments to the Constitution of India ?

- (a) 40th Amendment  
(b) 41st Amendment  
(c) 42nd Amendment  
(d) 43rd Amendment

63. Consider the following statements :

- The President of India can promulgate an ordinance at any time if he is satisfied that circumstances exist which render it necessary for him to take immediate action.

2. The Vice-President of India can be re-elected to his post. Which of these statements is/are correct ?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

64. Jharkhand does *not* share boundary with

- (a) West Bengal (b) Orissa  
(c) Chhattisgarh (d) Madhya Pradesh

65. Match List-I (Major Ports) with List-II (States) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Major Ports)	<i>List-II</i> (States)
A. Jawaharlal Nehru Port	1. Tamil Nadu
B. Paradip Port	2. Maharashtra
C. Kandla Port	3. Orissa
D. Ennore Port	4. Gujarat

Codes :

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

66. In accordance with the Table of Precedence (Government of India), select the correct sequence in the decreasing order of precedence :

- (a) Chief Justice of India—Chief Election Commissioner—Chief Ministers of States within their respective States—Governors of States within their respective States  
(b) Governors of States within their respective States—Chief Justice of India—Chief Ministers of States within their respective States—Chief Election Commissioner  
(c) Governors of States within their respective States—Chief Ministers of States within their respective States—Chief Justice of India—Chief Election Commissioner.  
(d) Chief Justice of India—Governors of States within their respective States—Chief Election Commissioner—Chief Ministers of States within their respective States.

67. Match List-I (Distinguished Ladies) with List-II (Positions/Areas of Work) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Distinguished Ladies)	<i>List-II</i> (Positions/Areas of work)
A. Aruna Roy	1. Chairperson, Central Social Welfare Board
B. Poornima Advani	2. Chairperson, National Dairy Development Board
C. Amrita Patel	3. Community Development
D. Mridula Singh	4. Chairperson, National Commission for Women

Codes :

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

68. Which one of the following European countries borders Atlantic Ocean ?

- (a) Portugal (b) Austria (c) Finland (d) Romania

69. Consider the following statements :

1. Greenland is an overseas territory of France.  
2. Bermuda, an overseas territory of UK, is situated in Western Atlantic.

3. State of Bahrain is situated in the Persian Gulf.

Which of these statements is/are correct ?

- (a) 1, 2 and 3 (b) 2 only (c) 2 and 3 (d) 1 and 3

70. If the usual rule of calculation of time were applied for the extremes of Gujarat and Arunachal Pradesh, then, approximately the time

- (a) At Gujarat would be ahead of that at Arunachal Pradesh by about 3 hours  
(b) At Gujarat would be ahead of that at Arunachal Pradesh by about 2 hours

- (c) At Arunachal Pradesh would be ahead of that at Gujarat by about 3 hours  
 (d) At Arunachal Pradesh would be ahead of that at Gujarat by about 2 hours

71. While the time in India is 4 p.m., the corresponding time (approximate) in  
 (a) Auckland (New Zealand) is 6 p.m.  
 (b) London (England) is 10.30 a.m.  
 (c) Tokyo (Japan) is 2 p.m.  
 (d) Cairo (Egypt) is 5 p.m.

72. Consider the following statements :

- Lord Mountbatten was sent to India in place of Lord Wavell as the Governor-General of India in March 1947.
- In July 1947, British Government passed the Act containing the main provisions of the Mountbatten Plan. This is known as the Indian Independence Act.

Which of these statements is/are correct ?

- (a) 1 only (b) 2 only  
 (c) Both 1 and 2 (d) Neither 1 nor 2

73. How many numbers are there between 99 and 1000 such that the digit 8 occupies the unit's place ?

- (a) 64 (b) 80 (c) 90 (d) 104

74. For a sports meet, a winners' stand comprising three wooden blocks is in the following form :



There are six different colours available to choose from and each of the three wooden blocks is to be painted differently. In how many different ways can the winners' stand be painted ?

- (a) 36 (b) 66 (c) 81 (d) 120

75. In a question paper, there are five questions to be attempted and answer to each question has two choices—True (T) or False (F). It is given that no two candidates have given the answers to the five questions in an identical sequence. For this to happen, the maximum number of candidates is

- (a) 10 (b) 18 (c) 26 (d) 32

76. Which of the following States is the first to have enacted a comprehensive legislation to protect the girl child ?

- (a) Karnataka (b) Goa  
 (c) Maharashtra (d) Madhya Pradesh

77. Consider the following statements :

- 'Astra' is an air-to-air guided missile which was recently test-fired.
- Recently test-fired 'Akash' is a medium range surface-to-surface missile.

Which of these statements is/are correct ?

- (a) 1 only (b) 2 only  
 (c) Both 1 and 2  
 (d) Neither 1 nor 2

78. Which of the following countries is *not* included in G-8 (Group of Eight industrialised countries) ?

- (a) Italy (b) Russia  
 (c) Holland (d) Canada

79. Match List-I (Dance Forms) with List-II (States) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Dance Forms)	<i>List-II</i> (States)
A. Kathakali	1. Tamil Nadu
B. Kuchipudi	2. Kerala
C. Bharat-natyam	3. Andhra Pradesh
	4. Orissa
	5. Karnataka

Codes :

A	B	C	A	B	C
(a) 2	4	1	(b) 5	3	2
(c) 2	3	1	(d) 5	4	2

80. Gross National Product of a country is the sum of the market value of all the goods and services produced in a year

- (a) *plus* export earnings  
 (b) *plus* market value of the imports  
 (c) *minus* foreign aid  
 (d) *plus* net income from abroad

81. India had a plan holiday

- (a) After the China-India War of 1962  
 (b) After the drought of 1966  
 (c) After the liberation of Bangladesh in 1971  
 (d) After the India-Pakistan War in 1965

82. In the Constitution of India, promotion of international peace and security is included in the

- (a) Preamble of the Constitution  
 (b) Directive Principles of State Policy  
 (c) Fundamental Duties  
 (d) Ninth Schedule

83. Consider the following statements related to the Prime Minister of India :

- He signs the bills passed by the two Houses of the Parliament on behalf of the President during his absence.
- He assists the President in making all the appointments.
- He communicates to the President all the decisions of the Council of Ministers.

Which of these statements are correct ?

- (a) 1, 2 and 3 (b) 1 and 2  
 (c) 1 and 3 (d) 2 and 3

84. Match List-I (Places) with List-II (States) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Places)	<i>List-II</i> (States)
A. Sriharikota	1. Karnataka
B. Thumba	2. Andhra Pradesh
C. Hassan	3. Orissa
D. Chandipur	4. Kerala
	5. Tamil Nadu

Codes :

A	B	C	D
(a) 1	3	5	4

- (b) 2 4 1 3  
 (c) 1 4 5 3  
 (d) 2 3 1 4

85. Separation of the judiciary from the executive in public services of the State is enjoined by

- (a) The Preamble of the Constitution of India  
 (b) A judicial decision  
 (c) The Seventh Schedule of the Constitution of India  
 (d) A Directive Principle of State Policy

86. Which one amongst the following is the oldest Dynasty ?

- (a) Pallava Dynasty  
 (b) Chola Dynasty  
 (c) Maurya Dynasty  
 (d) Gupta Dynasty

87. The Chalukya King who defeated Harshavardhana on the banks of the river Narmada was

- (a) Pulakesin II (b) Srimukha  
 (c) Mangalesa (d) Kirtivarman I

88. Who among the following Indian rulers was a contemporary of Akbar ?

- (a) Rani Durgawati  
 (b) Ahilya Bai  
 (c) Martanda Varma  
 (d) Raja Sawai Jai Singh

89. Consider the following statements related to Raja Rammohan Roy :

- He advocated widow remarriage.
- He strongly advocated for the abolition of Sati System.
- He advocated for the promotion of English education.

Which of these statements is/are correct ?

- (a) 1 only (b) 1 and 2  
 (c) 2 and 3 (d) 1, 2 and 3

90. Tissue culture is

- (a) Growing of tiny plant fragments in a nutrient solution  
 (b) A system of physical exercise for the regeneration of body tissues  
 (c) Growing of plant fragments on tissue paper  
 (d) Culturing of bacteria on tissue paper

91. Match List-I (Substances) with List-II (Constituents) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Substances)	<i>List-II</i> (Constituents)
A. White paint	1. Titanium dioxide
B. Glass	2. Phosphorus
C. Artificial fertiliser	3. Sodium silicate
D. Match-stick	4. Potassium sulphate
	5. Potassium chloride

Codes :

A	B	C	D
(a) 4	3	5	2
(b) 1	2	4	3
(c) 4	2	5	3
(d) 1	3	4	2

92. The six distinct schools of Indian philosophy—*Vedanta, Mimamsa, Sankhya, Yoga, Nyaya, Vaishesika* became fully articulated during the

- (a) Vedic age (b) Gupta age  
(c) Kushana age (d) Mauryan age

93. Gautama Buddha attained *pari-nirvana* at

- (a) Lumbini (b) Sarnath  
(c) Kushinagar (d) Bodh Gaya

94. Who among the following belongs to the period of Kanishka ?

1. Buddhaghosa 2. Nagarjuna  
3. Vasumitra 4. Asvaghosa

Select the correct answer using the codes given below :

Codes :

- (a) 2, 3 and 4 (b) 1, 2 and 3  
(c) 1, 3 and 4 (d) 1 and 4

95. Match List-I (Diseases) with List-II (Nature of Diseases) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Diseases)	<i>List-II</i> (Nature of Diseases)
-----------------------------	--

- |                  |                       |
|------------------|-----------------------|
| A. Filaria       | 1. Hereditary         |
| B. Epilepsy      | 2. Waterborne         |
| C. Enteric fever | 3. Contagious         |
| D. Mumps         | 4. Insect transmitted |

Codes

A	B	C	D
---	---	---	---

- |       |   |   |   |
|-------|---|---|---|
| (a) 2 | 3 | 4 | 1 |
| (b) 4 | 1 | 2 | 3 |
| (c) 2 | 1 | 4 | 3 |
| (d) 4 | 3 | 2 | 1 |

96. Consider the following statements :

- In India, the maximum part of electric energy is generated by the hydroelectric plants.
- In India, the maximum part of electric energy is generated by the thermal power plants.
- Neyveli Lignite Corporation Ltd. is located in Tamil Nadu.

Which of these statements is/are correct ?

- (a) 2 and 3 (b) 1 and 3  
(c) 2 only (d) 3 only

97. The layer of the atmosphere which makes radio communication possible is

- (a) Troposphere (b) Tropopause  
(c) Ionosphere (d) Stratosphere

98. Hypo, used in photography, is chemically

- (a) Sodium bicarbonate  
(b) Sodium cyanate  
(c) Sodium nitrate  
(d) Sodium thiosulphate

99. Which one of the following groups of crops is grown in India during the Rabi season ?

- (a) Wheat, barley, gram  
(b) Rice, maize, wheat  
(c) Barley, maize, rice  
(d) Millet, gram, rice

100. The part of the human brain that retains memory is the

- (a) Hypothalamus (b) Cerebellum  
(c) Cerebral cortex (d) Brainstem

101. The first woman to climb Mount Everest was

- (a) Marie Jose Perce  
(b) Florence Griffith Joyner  
(c) Junko Tabei  
(d) Jackie Joyner Kersee

102. Match List-I (Saint-poets) with List-II (Languages of their Compositions) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Saint-poets)	<i>List-II</i> (Languages of their Compositions)
--------------------------------	---

- |                 |              |
|-----------------|--------------|
| A. Mirabai      | 1. Malayalam |
| B. Tyagaraja    | 2. Bengali   |
| C. Chandidas    | 3. Hindi     |
| D. Purandardasa | 4. Telugu    |
|                 | 5. Kannada   |

Codes :

- |       |   |   |   |
|-------|---|---|---|
| A     | B | C | D |
| (a) 2 | 4 | 1 | 5 |
| (b) 3 | 4 | 2 | 5 |
| (c) 2 | 5 | 1 | 4 |
| (d) 3 | 5 | 2 | 4 |

103. The human immunodeficiency virus (HIV) is a living entity because it can

- (a) Move from one cell to another  
(b) Disturb host cell respiration  
(c) Undergo auto-reproduction  
(d) Cause a disease in the host

104. In a wooden box, there are 4 red and 4 black balls. If two balls are taken out simultaneously at random, then the probability of both the balls being red is

- (a)  $\frac{1}{2}$  (b)  $\frac{1}{4}$  (c)  $\frac{3}{8}$  (d)  $\frac{3}{14}$

105. Examine the following series of numbers :

50, x, 32, x + 2, 29, 95, 72, 48, 84, 78

If the value of the median of these numbers is 63 and x lies between 55 and 66, then the value of x is

- (a) 56 (b) 59 (c) 62 (d) 65

106. Match List-I (Vitamins) with List-II (Diseases caused by their Deficiency) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Vitamins)	<i>List-II</i> (Diseases caused by their Deficiency)
-----------------------------	---

- |                           |                    |
|---------------------------|--------------------|
| A. Vitamin A              | 1. Night blindness |
| B. Vitamin B <sub>1</sub> | 2. Scurvy          |
| C. Vitamin C              | 3. Beriberi        |
| D. Vitamin D              | 4. Rickets         |

Codes

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

107. Reserve Bank of India is a

- (a) Commercial Bank  
(b) Central Bank  
(c) Cooperative Bank  
(d) Lead Bank

108. Ozone layer in the upper atmosphere blocks

- (a) Heat rays from the sun  
(b) Ultraviolet rays from the sun  
(c) Cosmic rays from the space  
(d) Infrared rays from the sun

109. Paraffin is a by-product of

- (a) Petroleum refining  
(b) Processing of agricultural wastes  
(c) Cottage industry involving bee-keeping  
(d) Leather industry

110. Select the correct sequence in the decreasing order of carbon content :

- (a) Pig iron—Cast iron—Mild steel  
(b) Mild steel—Pig iron—Cast iron  
(c) Pig iron—Mild steel—Cast iron  
(d) Mild steel—Cast iron—Pig iron

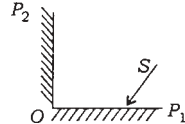
111. The term Mach Number is used in connection with the speed of

- (a) Ships (b) Light  
(c) Sound (d) Aeroplanes

112. Mahe, which is situated on the Malabar coast on the Western Ghats, is a part of

- (a) Kerala (b) Maharashtra  
(c) Pondicherry (d) Tamil Nadu

113.



In the figure shown above,  $OP_1$  and  $OP_2$  are two plane mirrors kept perpendicular to each other. S is the direction of a beam of light falling on the mirror  $OP_1$ . The direction of the reflected beam of light from the mirror  $OP_2$  will be

- (a) Perpendicular to the direction S  
(b) At  $45^\circ$  to the direction S  
(c) Opposite and parallel to the direction S  
(d) At  $60^\circ$  to the direction S

114. Which of the following helps the human body fight against infection ?

- (a) Hormones (b) Enzymes  
(c) White blood cells  
(d) Red blood cells

115. Match List-I (Persons) with List-II (Areas in which Distinguished) and select the correct answer using the codes given below the Lists :

<i>List-I</i> (Persons)	<i>List-II</i> (Areas in which Distinguished)
----------------------------	--

- |                    |                        |
|--------------------|------------------------|
| A. Rajendra Shah   | 1. Film industry       |
| B. Naresh Trehan   | 2. Computer industry   |
| C. Azim Premji     | 3. Automobile industry |
| D. Jagdish Khattar | 4. Medical science     |
|                    | 5. Literature          |

Codes :

- |       |   |   |   |
|-------|---|---|---|
| A     | B | C | D |
| (a) 2 | 3 | 1 | 4 |
| (b) 5 | 4 | 2 | 3 |
| (c) 2 | 4 | 1 | 3 |
| (d) 5 | 3 | 2 | 4 |

