

## QUESTION PAPER 2000

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

List I	List II
A. Development Programme	1. UN India Human Development Report
B. National Council of Applied Economic Research	2. India Development Report
C. Indira Gandhi Institute of Development Research	3. World Development Report
D. World Bank	4. Human Development Report

Codes:

- (a) A    B    C    D  
4    1    2    3
- (b) A    B    C    D  
4    2    1    3
- (c) A    B    C    D  
2    3    4    1
- (d) A    B    C    D  
2    1    4    3
2. "... instil into the vast missions of workers, men and women, who actually do the job, a sense of partnership and of cooperative performance..."  
The above passage relates to  
(a) Planned Development  
(b) Community Development  
(c) Panchayati Raj System  
(d) Integrated Development Programme
3. The 'stones' formed in human kidney consist mostly of  
(a) calcium oxalate    (b) sodium acetate  
(c) magnesium sulphate    (d) calcium
4. The Speaker can ask a member of the House to stop speaking and let another member speak. This phenomenon is known as  
(a) decorum    (b) crossing the floor  
(c) interpellation    (d) yielding the floor
5. While delivering the presidential address, the Congress President who advocate the introduction of Roman script for Hindi language was  
(a) Mahatma Gandhi    (b) Jawaharlal Nehru  
(c) Adul Kalam Azad    (d) Subhash Chandra Bose
6. Most of the explosions in mines occur due to the mixing of  
(a) hydrogen with oxygen    (b) oxygen with acetylene  
(c) methane with air    (d) carbon dioxide with ethane

7. Consider the following statements about the Attorney General of India:

1. He is appointed by the President of India
2. He must have the same qualifications as are required for a Judge of the Supreme Court
3. He must be a member of either House of Parliament
4. He can be removed by impeachment by Parliament

Which of these statements are correct?

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

8. A rectangular water tank measures 15 m × 6 m at top and is 10 m deep. It is full of water. If water is drawn out lowering the level by 1 metre, how much of water has been drawn out?

- (a) 90,000 litres    (b) 45,000 litres  
(c) 4,500 litres    (d) 900 litres

9. Along which one of the following meridians did India experience the first light of the sunrise of the new millennium?

- (a) 2° 30'W    (b) 82° 30'E  
(c) 92° 30'W    (d) 92° 30'E

10. Which one of the following organisms can serve as a biofertiliser for rice crop?

- (a) Blue-green algae    (b) Rhizobium sp  
(c) Mycorrhizal fungi    (d) Azotobacter sp

11. The Standing Committee of State Finance Ministers recommended in January 2000 uniform rates across the states in respect of

- (a) value-added tax  
(b) sales tax  
(c) stamp duty and registration fees  
(d) agricultural income tax

12. At the time of partition of India, which one of the following provinces of British India came forward with a plan for a united and independent existence?

- (a) Punjab    (b) Assam  
(c) Bengal    (d) Bihar

13. Consider the following functionaries:

1. Cabinet Secretary
2. Chief Election Commissioner
3. Union Cabinet Ministers
4. Chief Justice of India

Their correct sequence, in the Order of Precedence is

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

14. The primary function of the Finance Commission in India is to
- distribute revenue between the Centre and the States
  - prepare the Annual Budget
  - advise the President of financial matters
  - allocate funds to various ministries of the Union and State Governments
15. The state which has the largest number of seats reserved for the Scheduled Tribes in the Lok Sabha is
- Bihar
  - Gujarat
  - Uttar Pradesh
  - Madhya Pradesh
16. An accurate clock show 8 O'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O'clock in the afternoon?
- 150°
  - 144°
  - 168°
  - 180°
17. Consider the following statements:
- Tides are of great help in navigation and fishing
  - High tide enables big ships to enter or leave the harbour safely
  - Tide prevents siltation in the harbours
  - Kandla and Diamond Harbour are tidal ports
- Which of these statements are correct?
- 1 and 4
  - 2, 3 and 4
  - 1, 2 and 3
  - 1, 2, 3 and 4
18. At which stage in its lifecycle does the silk worm yield the fibre of commerce?
- Egg
  - Larva
  - Pupa
  - Imago
19. Indian Human Development Report does not give for each sample village
- Infrastructure and Amenities Index
  - Education Related Index
  - Health Related Index
  - Unemployment Related Index
20. The monthly income of Komal and Asha are in the ratio of 4 : 3. Their monthly expenses are in the ration of 3 : 2. However, both save Rs 600 per month. What is their total monthly income?
- Rs 8,400
  - Rs 5,600
  - Rs 4,200
  - Rs 2,800
21. Match List I with List II and select the correct answer using the codes given below the lists:

<b>List I</b>	<b>List II</b>
<i>(Oceanic trench)</i>	<i>(Location)</i>
A. Aleutian	1. Indian Ocean
B. Kermadec	2. North Pacific Ocean
C. Sunda	3. South Pacific Ocean
D. S. Sandwich	4. South Atlantic Ocean

Codes:

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

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

22. The Balkan Plan for fragmentation of India was the brain-child of
- W Churchil
  - M A Jinnah
  - Lord Mountbatten
  - V P Menon
23. Match List I with List II and select the correct answer using the codes given below the lists:

<b>List I</b>	<b>List II</b>
A. German Silver	1. Tin
B. Solder	2. Nickel
C. Bleaching Powder	3. Sodium
D. Hypo	4. Chlorine

Codes:

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

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

<b>List I</b>	<b>List II</b>
<i>(Institute)</i>	<i>(Location)</i>
A. Central Institute of Higher Tibetan Studies	1. Hyderabad
B. Indira Gandhi Institute of Development Research	2. Mumbai
C. National Institute of Mental Health and Neuro-sciences	3. Bangalore
D. Central Institute of English and Foreign Languages	4. Varanasi

Codes:

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

25. Match List I (Diseases) with List II (types of diseases) and select the correct answer using the codes given below the lists:

**List I**

- A. Haemophilia
- B. Diabetes
- C. Rickets
- D. Ringworm

Codes:

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

**List II**

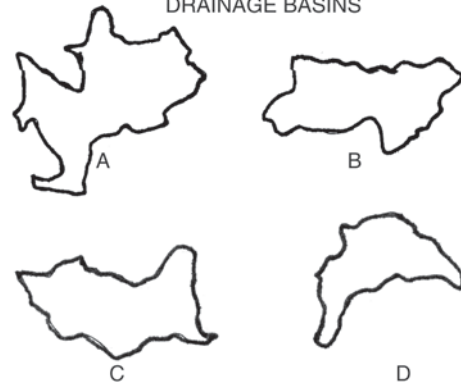
- 1. Deficiency disease
- 2. Genetic disease
- 3. Hormonal disorder
- 4. Fungal infection

26. Economic liberalisation in India started with
- (a) substantial changes in industrial licensing policy
  - (b) the convertibility of Indian rupee
  - (c) doing away with procedural formalities for foreign direct investment
  - (d) significant reduction in tax rates
27. The blood glucose level is commonly expressed as
- (a) mm of Hg
  - (b) milligram per decilitre
  - (c) pairs per million
  - (d) grammes per litre
28. The practice of military governorship was first introduced in India by the
- (a) Greeks
  - (b) Shakas
  - (c) Parthians
  - (d) Mughals
29. If  $X = -2$ , then  $X^3 - X^2 - X - 1$  is equal to
- (a) 1
  - (b) -3
  - (c) -11
  - (d) -15

30. Consider the following statements about the Indian National Congress
1. Sarojini Naidu was the first woman to be the President of the Congress
  2. C R Das was in prison when he functioned as the President of the Congress
  3. The first Britisher to become the President of the Congress was Alan Octavian Hume
  4. Alfred Webb was the President of the Congress in 1894
- Which of these statements are correct?
- (a) 1 and 3
  - (b) 2 and 4
  - (c) 2, 3 and 4
  - (d) 1, 2, 3 and 4

31. Match the drainage basins labelled as A, B, C and D with the names listed below and select the correct answer using the codes given below the names of the drainage basins.
- Names of drainage basins
1. Ganga-Brahmaputra
  2. Indus
  3. Parana
  4. Zambezi

**DRAINAGE BASINS**

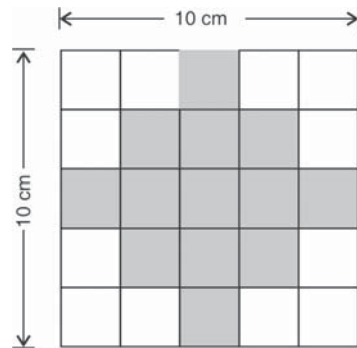


Not to scale

Codes:

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

32. Phytotron is a facility to
- (a) grow plants under disease-free conditions
  - (b) conserve endangered species of plants
  - (c) grow plants under controlled conditions
  - (d) induce mutations
33. The Raga which is sung early in the morning is
- (a) Todi
  - (b) Darbari
  - (c) Bhopali
  - (d) Bhimpalasi
34. In the given figure, all line segments of the shaded portion are of the same length and at right angles to each other. The same can be cut out of a board of side 10 cm. What is the area of the shaded portion?



- (a)  $36 \text{ cm}^2$
  - (b)  $48 \text{ cm}^2$
  - (c)  $52 \text{ cm}^2$
  - (d)  $64 \text{ cm}^2$
35. Gilt-edged market means
- (a) bullion market
  - (b) market of government securities
  - (c) market of guns
  - (d) market of pure metals

36. Match List I (endocrine glands) with List II (Hormones secreted) and select the correct answer using the codes given below the lists:

**List I**

- A. Gonads  
B. Pituitary  
C. Pancreas  
D. Adrenal

**List II**

1. Insulin  
2. Progesterone  
3. Growth hormones  
4. Cortisone

Codes:

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

37. Which one of the following dynasties was ruling over North India at the time of Alexander's invasion?

- (a) Nanda (b) Maurya  
(c) Sunga (d) Kanva

38. Match the international events below with their respective places labelled as 1, 2, 3, 4 and 5 in the given map and select the correct answer using the codes given below the list.

**International Events**

- A. Venue of Commonwealth Conference held in 1999  
B. Venue of World Trade Organisation meeting held in 1999  
C. Place of Israel-Syria Peace talks held in January 2000  
D. Place of military action by Russian troops in January 2000

Codes:

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

39. Which one of the following materials very hard and very ductile?

- (a) Carborundum (b) Tungsten  
(c) Cast iron (d) Nichrome

40. To reach the final of first grand slam of the year 2000, Martina Hingis defeated

- (a) Lindsay Davenport (b) Jennifer Capriati  
(c) Sarena William (d) Conchita Martinez

41. Insect-resistant cotton plants have been genetically engineered by inserting a gene from a/an

- (a) virus (b) bacterium  
(c) insect (d) plant

42. The Swarna Jayanti Shahari Rozgar Yojana which came into operation from 1-12-1997 aims to provide gainful employment to the urban unemployed or underemployed poor but does not include

- (a) Nehru Rozgar Yojana  
(b) Urban Basic Services Programme  
(c) Prime Minister's Integrated Urban Poverty Eradication Programme  
(d) Prime Minister's Rozgar Yojana

43. Soft drinks such as colas contain significant quantities of

- (a) caffeine (b) nicotine  
(c) tannin (d) renin

44. Consider the following statements regarding the Chakiarkoothu form of dance:

- It is performed by Chakiar caste
- It cannot be traditionally witnessed by the higher caste Hindus
- Mizhavu is the accompanying instrument
- Its theatre form is called koothambalam

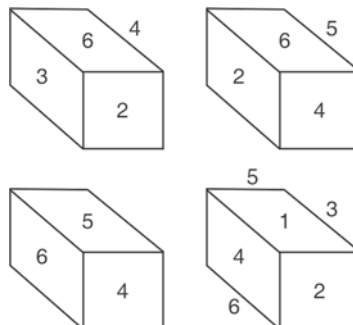
Which of these statements are correct?

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

45. Consider the following pictures of a dice:

What is the number opposite 3?

- (a) 1 (b) 4  
(c) 5 (d) Data insufficient



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

<b>List I</b> (Minerals)	<b>List II</b> (Major producer)
A. Mineral Oil	1. Zambia
B. Copper	2. Guyana
C. Manganese	3. Venezuela
D. Bauxite	4. Gabon

Codes:

- (a) A B C D  
3 1 4 2
- (b) A B C D  
3 1 2 4
- (c) A B C D  
1 3 2 4
- (d) A B C D  
1 3 4 2
47. Which one of the following does at TV remote control unit use to operate a TV set?
- (a) Light waves (b) Sound waves  
(c) Microwaves (d) Radio waves
48. Consider the following statements:  
The Indian rupee is fully convertible
- in respect of Current Account of Balance of Payment
  - in respect of Capital Account of Balance of Payment
  - into gold
- Which of these statements is/are correct?
- (a) 1 alone (b) 3 alone  
(c) 1 and 2 (d) 1, 2 and 3
49. Who among the following streamlined the Maratha administration after Sambhaji?
- (a) Raja Ram (b) Balaji Viswanath  
(c) Ganga Bai (d) Nanaji Deshmukh
50. Hybridoma technology is a new biotechnological approach for commercial production of
- (a) monoclonal antibodies (b) interferon  
(c) antibiotics (d) alcohol
51. Match List I (Books) with List II (Authors) and select the correct answer using the codes given below the lists:

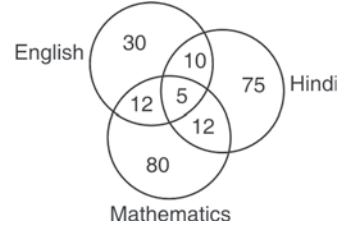
<b>List I</b>	<b>List II</b>
A. <i>My Music, My Life</i>	1. Laxman Gaikwad
B. <i>Adha Gaon</i>	2. Rahi Masoom Raza
C. <i>Radha</i>	3. Ramakanta Rath
D. <i>The Pilferer</i>	4. Ravi Shankar

Codes:

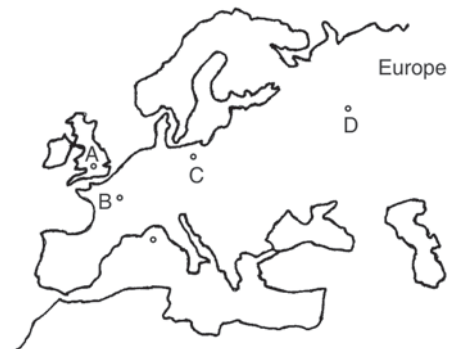
- (a) A B C D  
3 2 1 4
- (b) A B C D  
4 2 3 1
- (c) A B C D  
4 1 3 2
- (d) A B C D  
3 1 4 2

52. Examine the following relationships among members of a family of six persons A, B, C, D, E and F:
- The number of males equals that of females
  - A and E are sons of F
  - D is mother of two, one boy and one girl
  - B is the son of A
  - There is only one married couple in the family at present
- Which one of the following inferences can be drawn from the above?

- (a) A, B and C are all females  
(b) A is the husband of D  
(c) E and F are children of D  
(d) D is the grand daughter of F
53. Which one of the following is known as the “Coffee port” of the world?
- (a) Sao Pulao (b) Santos  
(c) Rio de Janeiro (d) Buenos Aires
54. Resurgent India Bonds were issued in US dollar, Pound Sterling and
- (a) Japanese Yen (b) Deutsche Mark  
(c) Euro (d) French Franc
55. The given diagram shows the number of students who failed in an examination comprising papers in English, Hindi and Mathematics. The total number of students who took the test is 500. What is the percentage of students who failed in at least two subjects



- (a) 6.8 (b) 7.8  
(c) 34 (d) 39
56. At which one of the cities labelled as A, B, C, and D on the given map of Europe was the historic treaty between NATO and Warsaw Pact countries signed in 1998?



- (a) A (b) B  
(c) C (d) D

57. Match List I (Power generation plant) with List II (Feed material) and select the correct answer using the codes given below the lists:

List I	List II
A. M/s Gowthami Solvents Oil Limited, Andhra Pradesh	1. Rice husk
B. M/s K M Sugar Mills, Uttar Pradesh	2. Slaughter house waste
C. M/s Satia Paper Mills, Punjab	3. Distillery spent wash
D. M/s Al Kabeer Exports Limited, Andhra Pradesh	4. Black liquor

Codes:

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

58. In a certain code, MARCH is written as OCTEJ, how is RETURN written in that code?

- (a) TFUVSM (b) QGSTQM  
(c) TGVWTP (d) TGRVSO

59. The given map refers to the kingdom of



- (a) Akbar at the time of capture of Khandesh in 1601  
(b) Akbar at the time of his death in 1605  
(c) Aurangzeb at the time of capture of Hyderabad  
(d) Aurangzeb at the time of his death in 1707

60. The sensation of fatigue in the muscles after prolonged strenuous physical work is caused by

- (a) a decrease in the supply of oxygen  
(b) minor wear and tear of muscle fibres  
(c) the depletion of glucose  
(d) the accumulation of lactic acid

61. Consider the following events:

1. Reign of Krishna Deva of Vijayanagara
2. Construction of Qutab Minar
3. Arrival of Portuguese in India
4. Death of Firuz Tughlaq

The correct chronological sequence of these events is

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

62. A, B, C, D, E and F not necessarily in that order are sitting in six chairs regularly placed around a round table. It is observed that

A is between D and F

C is opposite D

D and L are not on neighbouring chairs. Which one of the following must be true?

- (a) A is opposite B  
(b) D is opposite E  
(c) C and B are neighbours  
(d) B and E are neighbours

63. The given map shows locations of airports labelled as 1, 2, 3, 4 and 5. Which is the correct sequence of the airports in which the hijacked Indian Airlines plane IC-814 landed after its initial take off from Kathmandu in December



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

64. Consider the following statements:

The Ministerial Meeting of WTO held in December 1999 was unsuccessful because it attempted to link trade with

1. labour related trade
2. labour related issues
3. environment related issues
4. terrorism related issues
5. debt related issues

Which of these statements are correct?

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

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



**List I**

(Artist)

- A. Balamurali Krishna
- B. Mita Pandit
- C. Kanyakumari
- D. Nikhil Bannerjee

**List II**

(Medium of music delivery)

- 1. Hindustani vocal
- 2. Ghatam
- 3. Sitar
- 4. Violin
- 5. Caranatic vocal

Codes:

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

66. Aluminium surfaces are often 'anodised'. This means deposition of a layer of
- (a) chromium oxide
  - (b) aluminium oxide
  - (c) nickel oxide
  - (d) zinc oxide
67. Match List I with List II and select the correct answer using the codes given below the lists:

**List I**

- A. Iqta
- B. Jagir
- C. Amaram
- D. Mokasa

**List II**

- 1. Marathas
- 2. Delhi Sultans
- 3. Mughals
- 4. Vijyanagara

Codes:

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

68. Consider the following statements about the 'Roaring Forties'.
1. They blow uninterrupted in the Northern and Southern Hemispheres
  2. They blow with great strength and constancy
  3. Their direction is generally from North-West to East in the Southern Hemisphere
  4. Overcast skies, rain and raw weather are generally associated with them
- Which of these statements are correct?
- (a) 1, 2 and 3
  - (b) 2, 3 and 4
  - (c) 1, 3 and 4
  - (d) 1, 2 and 4
69. In a class there are 18 boys who are over 160 cm tall. If these boys constitute three-fourths of the boys and the total number of boys is two-third of the number of students in the class, then what is the number of girls in the class?
- (a) 6
  - (b) 12
  - (c) 18
  - (d) 24

70. A college student desires to get elected to the Municipal Council of his city. The validity of his nomination would depend on the important condition, among others, that
- (a) he obtains permission from the Principal of his college
  - (b) he is a member of a political party
  - (c) his name figures in the Voters' List
  - (d) he files a declaration owing allegiance to the Constitution of India

71. Consider the following provinces of former Yugoslavia:
1. Bosnia
  2. Croatia
  3. Slovenia
  4. Yugoslavia
- The correct sequence of these provinces from the east to the west is
- (a) 4, 1, 3, 2
  - (b) 4, 1, 2, 3
  - (c) 1, 4, 3, 2
  - (d) 1, 4, 2, 3

72. Consider the following statements:
- Hard water is not suitable for
1. drinking
  2. washing clothes with soap
  3. use in bodies
  4. irrigating crops
- Which of these statements are correct?
- (a) 1 and 3
  - (b) 2 and 3
  - (c) 1, 2 and 4
  - (d) 1, 2, 3 and 4

73. Which one of the following Muslim rulers was hailed as the 'Jagadguru' by his Muslim subjects because of his belief in secularism?
- (a) Husain Shah
  - (b) Zain-ul-Abidin
  - (c) Ibrahim Adil Shah
  - (d) Mahmud II

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

**List I**

(Local bodies)

- A. Zilla Parishads at the sub-divisional level
- B. Mandal Praja Parishad
- C. Tribal Councils
- D. Absence of Village Panchayats

**List II**

(States as in 1999)

- 1. Andhra Pradesh
- 2. Assam
- 3. Mizoram
- 4. Meghalaya

Codes:

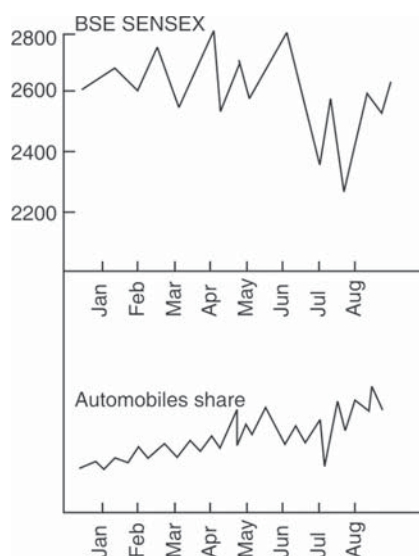
- (a) A B C D  
2 1 4 3
- (b) A B C D  
1 2 4 3
- (c) A B C D  
3 2 1 4
- (d) A B C D  
2 1 3 4

75. A small pouch containing silica gel is often found in bottles of medicine in table or power form because silica gel
- (a) kills bacteria
  - (b) kills germs and spores
  - (c) absorbs moisture
  - (d) absorbs all gases present inside the bottle

76. Which one of the following statements is incorrect?
- Goa attained full statehood in 1987
  - Diu is an island in the Gulf of Khambhat
  - Daman and Diu were separated from Goa by 56th Amendment of the Constitution of India
  - Dadra and Nagar Haveli were under French colonial rule till 1954
77. Canola refers to special type of oil seed mustard varieties bred for human consumption. The main characteristic of these varieties is that the
- seeds have very high oil content
  - oil is rich in unsaturated fatty acids
  - oil has long shelf-life
  - oil has very low Erucic acid content
78. Which one of the following between Tanzania and Uganda?
- Chad
  - Malawi
  - Victoria
  - Zembezi
79. A rectangular piece of iron sheet measuring 50 cm by 100 cm is rolled into a cylinder of height 50 cm. If the cost of painting the cylinder is Rs 50 per square metre, then what will be the cost of painting the outer surface of the cylinder?
- Rs 25.00
  - Rs 37.50
  - Rs 75.00
  - Rs 87.50
80. The growth rate of per capita income at current prices is higher than that of per capita income at constant prices, because the latter takes into account the rate of
- growth of population
  - increase in price level
  - growth of money supply
  - increase in the wage rate
81. "In this instance we could not play off the Mohammedans against the Hindus".  
To which one of the following events did this remark of Aitchison relate?
- Revolt of 1857
  - Champaran Satyagraha (1917)
  - Khilafat and Non-Cooperation Movement (1919–22)
  - August Movement of 1942
82. A noise level of 100 decibels would correspond to
- just audible sound
  - ordinary conversation
  - sound from a noisy street
  - noise from a machine-shop
83. The following news item appeared in a National daily dated 1-12-1999.
- "...Parliament today rejected a Bill to grant women the right to vote and stand for office in parliamentary elections, by a margin of 32–30. The National Assembly was split between liberal, pro-government and Shiite Muslim deputies who were in favour of women's rights, while the opposition camp grouped Sunni Muslim fundamentalists and tribal MPs. A total of 64 MPs and Ministers were present, of whom two abstained."

The Parliament referred to in this quotation is that of

- Kuwait
  - Iran
  - Bahrain
  - Saudi Arabia
84. Which one of the following statements is not true?
- Ghaggar's water is utilised in the Indira Gandhi Canal
  - Narmada rises from Amarkantak region
  - Nizam Sagar is situated on the Manjra river
  - Pengana is a tributary of the Godavari
85. The upper part of given graph is a hypothetical movement in the BSE Sensex over a few months and the lower part is the fluctuation in the average value of automobile shares in the same period (actual values not given).



Which one of the following inferences can be drawn from the graphs?

- The automobile share market has been as unstable as BSE Sensex in that period
  - There has been a major political change in June/July
  - Automobile shares have shown a steady improvement in price, unaffected by large fluctuations in BSE Sensex
  - None of the above
86. A 'black hole' is a body in space which does not allow any radiation to come out. This property is due to its
- very small size
  - very large size
  - very high density
  - very low density
87. The first Indian state to have its Human Development Report prepared and released by Amartya Kumar Sen in Delhi is
- West Bengal
  - Kerala
  - Madhya Pradesh
  - Andhra Pradesh
88. In an examination, every candidate took physics or mathematics or both 65.8% took physics and 59.2% took mathematics. The total number of candidates was 2000. How many candidate took both physics and mathematics?
- 75
  - 500
  - 250
  - 125



89. Consider the following statements about the megacities of India:
1. Population of each megacity is more than 5 million
  2. All the megacities are important sea ports
  3. Megacities are either national or state capitals
- Which of these statements are correct?
- (a) 1, 2 and 3                      (b) 1 and 2  
(c) 2 and 3                          (d) 1 and 3
90. The memory of a computer is commonly expressed in terms of kilobytes or megabytes. A byte is made up of
- (a) eight binary digits      (b) eight decimal digits  
(c) two binary digits        (d) two decimal digits
91. The Parliament can make any law for the whole or any part of India for implementing International treaties
- (a) with the consent of all the States  
(b) with the consent of the majority of States  
(c) with the consent of the States concerned  
(d) without the consent of any State
92. A bag contains 20 balls, 8 balls are green, 7 are white and 5 are red. What is the minimum number of balls that must be picked up from the bag blind-folded (without replacing any of it) to be assured of picking at least one ball of each colour?
- (a) 4                                      (b) 7  
(c) 11                                      (d) 16
93. In an open economy, the national income (Y) of the economy is  
(C, I, G, X, M stand for Consumption, Investment, Govt. Expenditure, total exports and total imports respectively.)
- (a)  $Y = C + I + G + X$   
(b)  $Y = C - I = G - X + M$   
(c)  $Y = C + I + G + (X - M)$   
(d)  $Y = C + I - G + (X - M)$
94. Which one of the following is *not* a feature of the Government of India Act of 1935?
- (a) Diarchy at the Centre as well as in the provinces  
(b) A bicameral legislature  
(c) Provincial autonomy  
(d) An All-India Federation
95. The correct sequence in decreasing order of the four sugarcane producing States in India is
- (a) Maharashtra, Uttar Pradesh, Tamil Nadu, Andhra Pradesh  
(b) Uttar Pradesh, Maharashtra, Tamil Nadu, Andhra Pradesh  
(c) Maharashtra, Uttar Pradesh, Andhra Pradesh, Tamil Nadu  
(d) Uttar Pradesh, Maharashtra, Andhra Pradesh, Tamil Nadu
96. Which one of the following statements about a Money Bill is *not* correct?
- (a) A Money Bill can be tabled in either House of Parliament  
(b) The Speaker of Lok Sabha is the final authority to decide whether a Bill is a Money Bill or not
- (c) The Rajya Sabha must return a Money Bill passed by the Lok Sabha and send it for consideration within 14 days  
(d) The President cannot return a Money Bill to the Lok Sabha for reconsideration
97. Consider the following features of newer models of motor cars:
1. Radial tyres
  2. Streamlined body
  3. Multipoint fuel injection
  4. Catalytic converter with exhaust
- Which of these features make the newer models of motor cars more fuel efficient?
- (a) 1 and 2                              (b) 2 and 3  
(c) 2, 3 and 4                          (d) 1, 3 and 4
98. The Indian National Army (INA) came into existence in 1943 in
- (a) Japan                                  (b) then Burma  
(c) Singapore                              (d) then Malaya
99. Which one of the following has a greater perimeter than the rest?
- (a) A square with an area of 36 sq cm  
(b) An equilateral triangle with a side of 9 cm  
(c) A rectangle with 10 cm as length and 40 sq cm as area  
(d) A circle with a radius of 4 cm
100. Match the cities labelled as 1, 2, 3, 4 and 5 in the given map with the names of the institutes located in these cities and select the correct answer using the codes given below the names of the institutes.



Name of institutes

- A. Central Marine Fisheries Research Institute  
B. Central Sheep Breeding Farm  
C. National Dairy Research Institute  
D. National Institute of Agricultural Extension Management

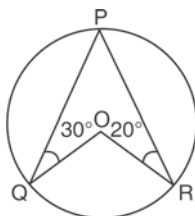
Codes:

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

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

101. A rise in 'Sensex' means  
(a) a rise in prices of shares of all companies registered with Bombay Stock Exchange  
(b) a rise in prices of shares of all companies registered with National Stock Exchange  
(c) an overall rise in prices of shares of group of companies registered with Bombay Stock Exchange  
(d) a rise in prices of shares of all companies belonging to a group of companies registered with Bombay Stock Exchange
102. The new GDP series released by the CSO in February 1999 is with reference to price of  
(a) 1991–92 (b) 1992–93  
(c) 1993–94 (d) 1994–95

103. In the given figure  $\angle OQP = 30^\circ$  and  $\angle ORP = 20^\circ$ ,  $\angle QOR$  is equal to



- (a)  $100^\circ$  (b)  $120^\circ$   
(c)  $130^\circ$  (d)  $140^\circ$

104. Consider the following statements:  
1. Maharashtra has the highest acreage under jawar in India  
2. Gujarat is the largest producer of groundnut in India  
3. Rajasthan has the largest area of cultivable wastelands in India  
4. Andhra Pradesh has the highest per hectare yield of maize in India

Which of these statements are correct?

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

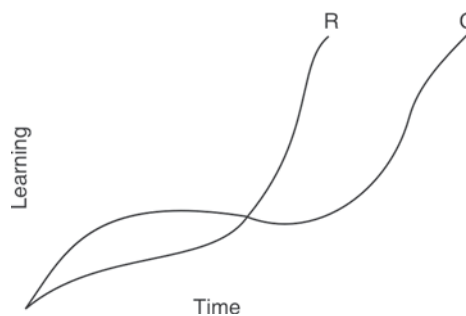
105. A club has 108 members. Two-third of them are men and the rest are women. All members are married except for 9 women members. How many married women are there in the club?  
(a) 20 (b) 24  
(c) 27 (d) 30
106. The last major extension of British Indian territory took place during the time of  
(a) Dufferin (b) Dalhousie  
(c) Lytton (d) Curzon

107. Fluorescent tubes are fitted with a choke.  
The choke coil  
(a) steps up the line voltage  
(b) steps down the line voltage  
(c) reduces current in the circuit  
(d) chokes low frequency currents

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

- (a) Baki Itihas : Badal Sarkar  
(b) Sita Swayamvar : Vishnu Das Bhawe  
(c) Yayati : Girish Karnad  
(d) Giddha : Jabbar Patel

109. The following figure represents time vs learning curves of two students, Q and R for learning a mathematics lesson:



Which one of the following inferences can be drawn from the graph?

- (a) R started slowly in the beginning but got ahead of Q to complete learning the lesson  
(b) Q started slowly and furnished learning the lesson earlier than R  
(c) R was always faster than Q in learning mathematics  
(d) Q was always faster than R in learning mathematics
110. Match List I with List II and select the correct answer using the codes given below the lists:

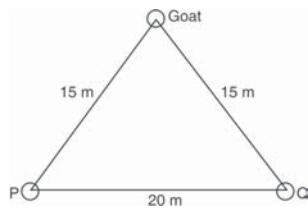
<b>List I</b> (Industrial unit)	<b>List II</b> (Centre)
A. Atlas Cycle Company Ltd.	1. Bangalore
B. Bharat Earth Movers Ltd.	2. Bhubaneswar
C. Indian Farmers Fertilisers Cooperative Ltd	3. Kalol
D. National Aluminium Company Ltd	4. Sonapat

Codes:

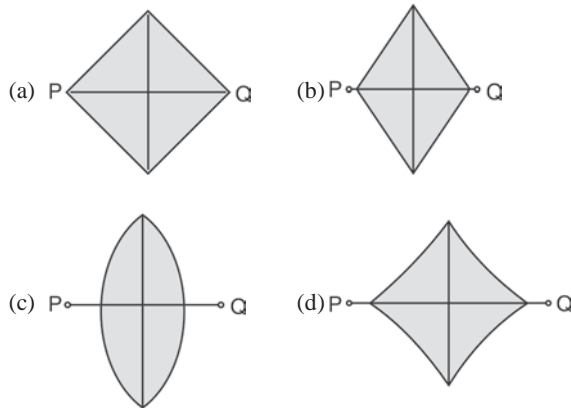
- (a) A B C D  
1 4 2 3  
(b) A B C D  
1 4 3 2  
(c) A B C D  
4 1 2 3  
(d) A B C D  
4 1 3 2

111. For reproducing sound, a CD (Compact Disc) audio player uses a  
(a) quartz crystal (b) titanium needle  
(c) laser beam (d) barium titanate ceramic

112. The 73rd Constitution Amendment Act, 1992 refers to the
- generation of gainful employment for the unemployed and the underemployed men and women in rural area
  - generation of employment for the able bodied adults who are in need and desirous of work during the lean agricultural season
  - laying the foundation for strong and vibrant Panchayati Raj Institutions in the country
  - guarantee of right to life, liberty and security of person, equality before law and equal protection without discrimination
113. A goat is tied to two poles P and Q with ropes that are 15 metres long P and Q are 20 metres apart as shown in the given diagrams:



Which one of the following shaded portions indicates the total area which the goat can graze?



114. Match the locations of ports labelled as A, B, C and D in the given map with the names of those ports and select the correct answer using the codes given below the names of the ports.



Names of Ports

- |              |              |
|--------------|--------------|
| 1. Kakinada  | 2. Karwar    |
| 3. Mangalore | 4. Tuticorin |
| 5. Veraval   |              |

Codes:

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

115. When a CD (compact disc) is seen in sunlight, rainbow like colours are seen. This can be explained on the basis of the phenomenon of
- reflection and diffraction
  - reflection and transmission
  - diffraction and transmission
  - refraction, diffraction and transmission
116. As an alternative to the partition of India, Gandhiji suggested to Mountbatten that he
- postpone granting of independence
  - invite Jinnah to form the government
  - invite Nehru and Jinnah to form the government together.
  - invite the army to take over for some time
117. A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C: He again turns left and travels five times the distance covered between A and B and reaches his destination D. The shortest distance between the starting point and destination is
- 18 km
  - 16 km
  - 15 km
  - 12 km
118. Which one of the following ports of India handles the highest tonnage of import cargo?
- Calcutta
  - Kandla
  - Mumbai
  - Visakhapatnam
119. The native state of Tripura became involved in the Freedom movement early in the 20th century because
- the kings of Tripura were always anti-British
  - the Bengal revolutionaries took shelter in Tripura
  - the tribes of the state were fiercely freedom loving
  - there were already some groups fighting against the kingship and its protector, the British
120. Match List I (Industrial process) with List II (Industry with which associated) and select the correct answer using the codes given below the lists:

- | List I           | List II        |
|------------------|----------------|
| A. Cracking      | 1. Rubber      |
| B. Smelting      | 2. Petroleum   |
| C. Hydrogenation | 3. Copper      |
| D. Vulcanisation | 4. Edible Fats |

Codes:

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

121. Within biological communities, some species are important in determining the ability of a large number of other species to persist in the community. Such species are called  
(a) Keystone species (b) Allopatric species  
(c) Sympatric species (d) Threatened species
122. Match List I with List II and select the correct answer using the codes given below the lists:

**List I**

- A. Boom  
B. Recession  
C. Depression  
D. Recovery

**List II**

1. Business activity at high level with increasing income, output and employment at macro level  
2. Gradual fall of income, output and employment with business activity in a low gear  
3. Unprecedented level of under employment and unemployment drastic fall in income, output and employment  
4. Steady rise in the general level of prices, income, output and employment

Codes:

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

123. The distribution of 1,00,000 tourists who visited India during a particular year is shown in the given charts. Based on this, the number of Japanese tourists below the age of 39 who visited India in the year concerned is



- (a) 10,000 (b) 8,000  
(c) 6,000 (d) 4,000

124. Match the different ports of Union Territory of Pondicherry labelled as A, B, C and D in the given map with their respective names and select the correct answer using the codes given below the list of ports:



List (Ports of Pondicherry)

1. Karaikal 2. Mahe  
3. Pondicherry 4. Yanam

Codes:

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

125. That the per capita income in India was Rs 20 in 1876–68, was ascertained for the first time by  
(a) M G Ranade (b) Sir W Hunter  
(c) R C Dutta (d) Dadabhai Nauroji
126. Which one of the following pairs of primitive tribes and places of their inhabitation is *not* correctly matched?  
(a) Buksa : Pauri-Garhwal  
(b) Kol : Jabalpur  
(c) Munda : Chhotanagpur  
(d) Korba : Kodagu
127. What is the maximum number of pieces of 5 cm × 5 cm × 10 cm cake that can be cut from a big cake of 5 cm × 30 cm × 30 cm size?  
(a) 10 (b) 15  
(c) 18 (d) 30
128. Which one of the following statements is true according to 1991 census data?  
(a) UP has the highest density of population in India  
(b) Himachal Pradesh has the highest female to male sex ratio in India  
(c) West Bengal has the highest growth rate of population in India  
(d) Bihar has the lowest literacy rate in India

**Directions:** The next two items are based on the following table. Study the same carefully and attempt the two items that follow it:

**Table**  
**Indicators of Development for Some Asian Countries**

Country	Life expectancy at birth (years)	Infant mortality rate (per 1000 live births)	Adult literacy rate (per cent)
	1995	1996	1995
India	62.4	72	52
China	69.2	38	82
Indonesia	64.0	47	84
Malaysia	71.4	11	84
Thailand	69.5	31	94
Korea	71.7	6	98
Philippines	67.4	32	95

129. Which one of the following statements is *false*?
- All countries other than India have over 80% literacy
  - Malaysia and Korea have life expectancy highest than all other countries
  - Higher the adult literacy lower is the infant mortality
  - The life expectancy at birth in India is almost the same as that of Indonesia
130. The best performance in terms of Human Development among the Asian countries is by
- China
  - Malaysia
  - Korea
  - Philippines
131. After returning from South Africa, Gandhiji launched his first successful *Satyagraha* in
- Chauri-Chaura
  - Dandi
  - Champaran
  - Bardoli
132. Match List I with List II and select the correct answer using the codes given below the lists:

List I	List II
A. Chittagong Armoury Raid	1. Kalpana Dutt
B. Abhinav Bharat	2. Guru Ram Singh
C. Anushilan Samiti	3. Vikram Damodar Savarkar
D. Kuka Movement	4. Aurobindo Gosh

*Codes:*

- A B C D  
1 3 4 2
- A B C D  
1 3 2 4
- A B C D  
3 1 2 4
- A B C D  
3 1 4 2

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

List I	List II
A. Land allotted to big feudal landlords	1. Jagirdari System
B. Land allotted to revenue farmer of rent collectors	2. Ryotwari System
C. Land allotted to each peasant with the right to sublet, mortgage, transfer, gift or sell	3. Mahalwari
D. Revenue settlements made at village level	4. Zamindari System

*Codes:*

- A B C D  
1 3 2 4
- A B C D  
1 4 2 3
- A B C D  
3 4 1 2
- A B C D  
2 1 3 4

134. Which one of the following countries occupies the first place in the "Global Competitive Report" of World Economic Forum?

- USA
- Singapore
- Hong Kong
- France

**Directions:** The following 16 items consist of two statements, one labelled as 'Assertion A' and the other labelled as 'Reason R'. You are examine these two statements carefully and decide if the Assertion 'A' and the Reason 'R' and individually true and if so, whether is a correct explanation of the Assertion. Select your answers to these items using the codes given below and mark your answer sheet accordingly.

*Codes:*

- Both A and R are true and R is the correct explanation of A
  - Both A and R are true but R is *not* a correct explanation of A
  - A is true but R is false
  - A is false but R is true
135. Assertion (A) : Lord Linlithgow described the August Movement of 1942 as the most serious revolt after the Sepoy mutiny.  
Reason (R) : Peasants joined the movement in large number in some places
136. Assertion (A) : A man standing on a completely frictionless surface can propel himself by whistling.  
Reason (R) : If no external force acts on a system, its momentum cannot change.
137. Assertion (A) : The Aham and Puram poems of the Padinen Kilukanakku group formed a continuation of the Sangam composition.  
Reason (R) : They were included under the Post

- Sangam works as against the Sangam works proper
138. Assertion (A) : In Australia, cattle rearing is done more for meat than for milk  
Reason (R) : Australians are traditionally non-vegetarians.
139. Assertion (A) : In human beings, the females play a major role in determining the sex of the offspring.  
Reason (R) : Women have two 'X' chromosomes.
140. Assertion (A) : Large cold storage plants use ammonia as refrigerant while domestic refrigerators use chlorofluorocarbons.  
Reason (R) : Ammonia can be liquefied at ambient temperatures at low pressures
141. Assertion (A) : The frequency of floods in North Indian plains has increased during the last couple of decades.  
Reason (R) : There has been reduction in the depth of river valleys due to deposition of silt.
142. Assertion (A) : The rate of growth of India's exports has shown an appreciable increase after 1991  
Reason (R) : The Govt. of India has resorted to devaluation
143. Assertion (A) : "DNA Fingerprinting" has become a powerful tool to establish paternity and identity of criminals in rape and assault cases.  
Reason (R) : Trace evidences such as hair, saliva and dried semen are adequate for DNA analysis.
144. Assertion (A) : Ganga Plan is the most densely populated part of India.  
Reason (R) : Ganga is the most harnessed river of India
145. Assertion (A) : The emphasis of Jainism on non-violence (ahimsa) prevented agriculturalists from embracing Jainism.  
Reason (R) : Cultivation involved killing of insects and pests.
146. Assertion (A) : The origin of feudal system in ancient India can be traced to military campaigns.  
Reason (R) : There was considerable expansion of the feudal system during the Gupta period.
147. Assertion (A) : Ashoka annexed Kalinga to the Mauryan Empire  
Reason (R) : Kalinga controlled the land and sea routes to South India.
148. Assertion (A) : The basic weakness of the early nationalist movement lay in its narrow social base.  
Reason (R) : It fought for the narrow interests of the social groups which joined it.
149. Assertion (A) : In a motion picture, usually 24 frames are projected every second over the whole length of the film.  
Reason (R) : An image formed on the retina of eye persists for about 0.1s after the removal of stimulus.
150. Assertion (A) : Small glass beads fixed on traffic signals glow brightly when light falls upon them.  
Reason (R) : Light is totally reflected when the angle of incidence exceeds a certain critical value and light travelling in a denser medium is reflected from a rarer medium.

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**ANSWERS**


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- |         |         |         |          |          |         |         |         |          |          |
|---------|---------|---------|----------|----------|---------|---------|---------|----------|----------|
| 1. (a)  | 31. (d) | 61. (a) | 91. (d)  | 121. (c) | 15. (d) | 45. (b) | 75. (c) | 105. (c) | 135. (b) |
| 2. (b)  | 32. (c) | 62. (d) | 92. (d)  | 122. (a) | 16. (d) | 46. (a) | 76. (d) | 106. (a) | 136. (b) |
| 3. (a)  | 33. (a) | 63. (c) | 93. (c)  | 123. (d) | 17. (d) | 47. (c) | 77. (b) | 107. (c) | 137. (c) |
| 4. (d)  | 34. (c) | 64. (b) | 94. (a)  | 124. (a) | 18. (c) | 48. (a) | 78. (c) | 108. (c) | 138. (b) |
| 5. (d)  | 35. (b) | 65. (a) | 95. (b)  | 125. (d) | 19. (d) | 49. (a) | 79. (a) | 109. (a) | 139. (d) |
| 6. (c)  | 36. (c) | 66. (b) | 96. (a)  | 126. (c) | 20. (c) | 50. (a) | 80. (a) | 110. (d) | 140. (b) |
| 7. (a)  | 37. (a) | 67. (b) | 97. (b)  | 127. (c) | 21. (b) | 51. (b) | 81. (c) | 111. (c) | 141. (b) |
| 8. (a)  | 38. (c) | 68. (b) | 98. (c)  | 128. (d) | 22. (c) | 52. (b) | 82. (d) | 112. (c) | 142. (b) |
| 9. (d)  | 39. (d) | 69. (b) | 99. (c)  | 129. (c) | 23. (d) | 53. (b) | 83. (a) | 113. (c) | 143. (a) |
| 10. (a) | 40. (d) | 70. (c) | 100. (b) | 130. (c) | 24. (b) | 54. (b) | 84. (a) | 114. (b) | 144. (c) |
| 11. (b) | 41. (b) | 71. (b) | 101. (c) | 131. (c) | 25. (b) | 55. (b) | 85. (c) | 115. (a) | 145. (a) |
| 12. (c) | 42. (d) | 72. (b) | 102. (c) | 132. (a) | 26. (a) | 56. (d) | 86. (c) | 116. (b) | 146. (d) |
| 13. (b) | 43. (a) | 73. (c) | 103. (a) | 133. (b) | 27. (b) | 57. (c) | 87. (c) | 117. (c) | 147. (a) |
| 14. (a) | 44. (a) | 74. (a) | 104. (b) | 134. (b) | 28. (a) | 58. (c) | 88. (b) | 118. (c) | 148. (c) |
|         |         |         |          |          | 29. (c) | 59. (d) | 89. (d) | 119. (b) | 149. (a) |
|         |         |         |          |          | 30. (b) | 60. (d) | 90. (a) | 120. (b) | 150. (a) |