

# General Awareness

## Solved paper of Combined Defence Services Exam held in August 2001

1. The famous Jain scholar Hemachandra was patronized by:

- (a) Amoghavarsha
- (b) Chandragupta Maurya
- (c) Dharmapala
- (d) Kumarapala Chalukya

2. Match List I (Tribe) with List II (State) and select the correct answer using the codes given below the lists:

List I  
(Tribe)

List II  
(State)

- A. Garo
- B. Lushai
- C. Miri
- D. Lotha

- 1. Nagaland
- 2. Meghalaya
- 3. Mizoram
- 4. Assam

Codes:

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

3. Which one of the following metals has the highest density?

- (a) Gold
- (b) Iron
- (c) Platinum
- (d) Lead

4. Match List I (Sports person) with List II (Sport/Game) and select the correct answer using the codes given below the lists:

List I  
(Sports person)

List II  
(Sport/Game)

- A. Arjun Singh
- B. Baichung Bhutia
- C. Narain Karthikeyan
- D. Subramanium Raman

- 1. Car Racing
- 2. Golf
- 3. Football
- 4. Table Tennis

Codes:

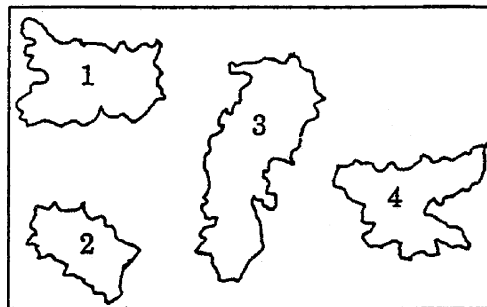
	A	B	C	D
(a)	2	3	1	4
(b)	4	3	1	2
(c)	2	1	3	4
(d)	4	1	3	2

5. James Heckman and Daniel McFadden won the 2000 Nobel Prize in:

- (a) Chemistry
- (b) Economics
- (c) Physics
- (d) Literature

6. The shapes of four Indian States are shown in the given figures as 1, 2, 3 and 4. These States are:

- (a) Chattisgarh
- (b) Jharkhand
- (c) Bihar
- (d) Uttaranchal



Match the given shapes with the States using the codes given below:

Codes:

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

7. A homogeneous solid floats in water with 60% of its body above the water level. The specific gravity of the material of the solid is:

- (a)  $\frac{2}{3}$
- (b)  $\frac{2}{5}$
- (c)  $\frac{3}{2}$
- (d)  $\frac{3}{5}$

8. When a mixture of water gas ( $\text{CO} + \text{H}_2$ ) and excess hydrogen are passed over heated cobalt or nickel, a mixture of hydrocarbons and water are produced. This is known as:

- (a) Bayer Process
- (b) Bergius Process
- (c) Fischer-Tropsch Process
- (d) Oxo Process

9. Leaf tendrils are found in:

- (a) Sweet Pea
- (b) Morning Glory
- (c) Grape Vine
- (d) Ivy

10. With reference to the Central Government programmes, 'Golden Quadrangle Project' aims at the development of:

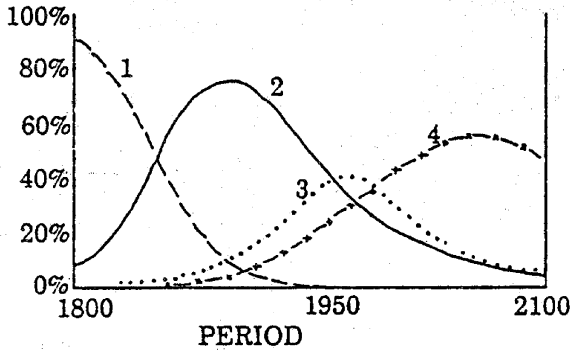
- (a) Airways
- (b) Highways
- (c) Rural roads
- (d) State roads

11. Muhammad bin Tughlaq's experiment of introducing token currency failed on account of the:

- (a) rejection of token coins for purchases by foreign merchants
- (b) melting of token coins
- (c) large-scale minting of spurious coins
- (d) poor quality of token currency

12. In the world, the trends in the energy consumption in the form of A. Coal, B. Petroleum, C. Natural gas and D. Wood for the period of 1800 A.D. to 2100 A.D. have been

plotted in the given diagram. These trends are marked as 1, 2, 3 and 4.



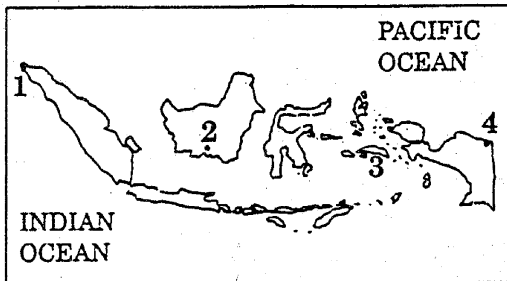
Match the sources of energy with the trends and select the correct answer using the codes given below:

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

13. Four cities of Indonesia, which were in the news recently, are marked as 1, 2, 3 and 4 in the given map. The cities are:

- (a) Ambon                      (b) Banda Aceh  
(c) Jayapura                  (d) Sampit



Match these cities with their locations using the codes given below:

Codes:

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

14. "Wireless in Local Loop" is associated with:  
(a) limited roaming facility in telephone service  
(b) satellite facility to shoot local pictures  
(c) wireless remote sensing  
(d) wireless radio facility in local areas

15. Consider the following statements regarding the functions of liver in human body:

1. Liver produces fibrinogen.

2. Liver regulates blood sugar by retaining excess glucose.

3. Liver synthesizes lactase.

4. Liver stores iron.

Which of these statements is/are correct?

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

16. Who issued a *firman* on 12 August, 1765, granting to the English the Diwani of Bengal, Bihar and Orissa?

- (a) Shah Alam II              (b) Bahadur Shah  
(c) Farrukhsiyar              (d) Muhammad Shah

17. Match List I (*National Highway*) with List II (*Cities*) and select the correct answer using the codes given below the lists:

List I  
(National Highway)

- A. NH1  
B. NH2  
C. NH3  
D. NH4

List II  
(Cities)

1. Delhi—Kolkata  
2. Mumbai—Agra  
3. Chennai—Thane  
4. Delhi—Amritsar

Codes:

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

18. Consider the following statements:

Radioisotopes are used:

- in the diagnosis of certain diseases.
- for determining the age of rocks.
- in radiation therapy.
- for computing the age of very old monuments.

Which of these statements is/are correct?

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

19. Which one of the following elements is used in the manufacture of safety matches?

- (a) Graphite    (b) Phosphorus    (c) Silicon    (d) Sodium

20. The rolling plan concept in national planning was introduced during the tenure of Prime Minister:

- (a) Morarji Desai              (b) Indira Gandhi  
(c) Rajiv Gandhi                (d) Chandrasekhar

21. Consider the following animals:

- Bat
- Frog
- Hedgehog
- Snake

Which of these are poikilothermic animals?

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

22. Which one of the following pairs (*of dynasties and their founders*) is *not* correctly matched?

- (a) Slave dynasty              .... Balban  
(b) Tughlaq dynasty            .... Ghiyasuddin  
(c) Khalji dynasty                .... Jalaluddin  
(d) Second Afghan Empire    .... Sher Shah Suri

23. The largest share of revenue receipts of the State government comes from:

- (a) Registration fees
- (b) Land revenue
- (c) General sales tax
- (d) Share of Union excise duty

24. Match List I (*Literary work*) with List II (*Author*) and select the correct answer using the codes given below the lists:

List I (Literary work)	List II (Author)
A. <i>Gatha Saptasati</i>	1. Bhadrabahu
B. <i>Mahabhashya</i>	2. Hala
C. <i>Kalpasutra</i>	3. Sarvarman
D. <i>Katantra</i>	4. Patanjali

**Codes:**

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

25. Match List I (*Urban Centre*) with List II (*Product*) and select the correct answer using the codes given below the lists:

List I (Urban Centre)	List II (Product)
A. Ahmedabad	1. Handloom
B. Gwalior	2. Woollen Textiles
C. Bangalore	3. Cotton Textiles
D. Coimbatore	4. Silk Textiles

**Codes:**

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

26. Lead paintings and lead articles when exposed to atmosphere turn black due to reaction with:

- (a) Carbon dioxide
- (b) Hydrogen sulphide
- (c) Oxygen
- (d) Sulphur dioxide

27. Which one of the following Constitutional Amendments bans floor crossing by a Member elected on a party ticket to a Legislature?

- (a) 52nd
- (b) 54th
- (c) 56th
- (d) 58th

28. The bacterial cell wall is composed of layers of:

- (a) Peptidoglycan
- (b) Phospholipid
- (c) Chitin
- (d) Cellulose

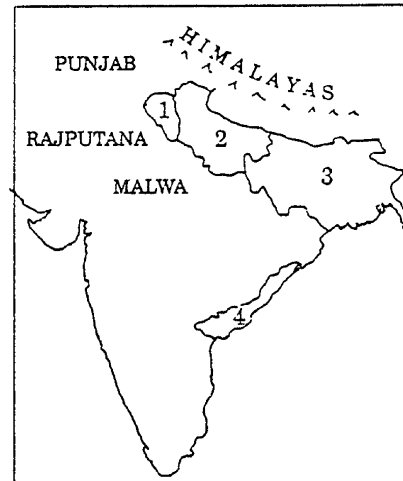
29. Which one of the following is the first company-managed major port in India?

- (a) Cochin
- (b) Ennore
- (c) Tuticorin
- (d) Visakhapatnam

30. Babur came to India originally from:

- (a) Ferghana
- (b) Khiva
- (c) Khorasan
- (d) Seistan

31. Four territories in India in the time of Clive and Warren Hastings are marked in the given map as 1, 2, 3 and 4. Which one of them was known as "Northern Circars"?



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

32. India earns the maximum foreign exchange from:

- (a) Textiles
- (b) Gems and Jewellery
- (c) Chemicals and related products
- (d) Agriculture and allied products

33. During the Indian freedom struggle, an unarmed large crowd gathered in the Jallianwala Bagh at Amritsar on 13th April 1919 to protest against the arrest of:

- (a) Dr Saifuddin Kitchlu and Dr Satyapal
- (b) Swami Shraddhanand and Mazhar-ul-Haq
- (c) Madan Mohan Malaviya and Mohammed Ali Jinnah
- (d) Mahatma Gandhi and Abul Kalam Azad

34. Consider the following statements:

1. Tropical cyclones have circular isobars.
2. Tropical cyclones originate entirely within tropical air mass.
3. The intensity and magnitude of hurricanes generally exceed those of typhoons.
4. Tropical cyclones are more destructive than the western disturbances.

Select the correct answer by using the following codes:

**Codes:**

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

35. The chance of a vehicle to overturn while negotiating a circular path depends on:

- (a) speed of the vehicle only
- (b) radius of the circular path only
- (c) speed and height of the vehicle; and radius of the circular path
- (d) height of the vehicle only

36. "It is impossible to make an exact measurement of both the position and momentum of a particle on the atomic scale." Who proposed this?

- (a) Einstein
- (b) Heisenberg
- (c) Pauli
- (d) Schrodinger

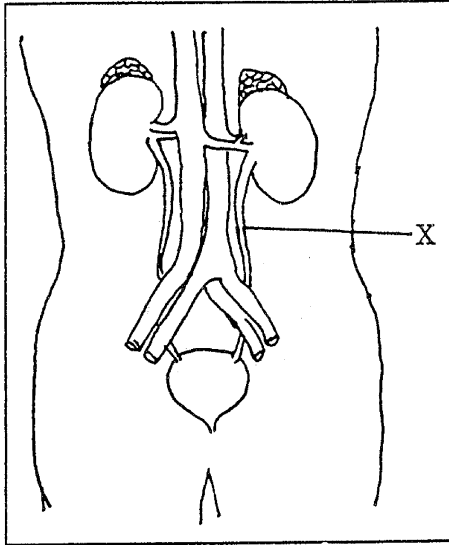
37. The First Five-Year Plan was submitted to the Parliament in:

- (a) 1948 (b) 1950 (c) 1952 (d) 1954

38. Ms Amrita Pritam is a:

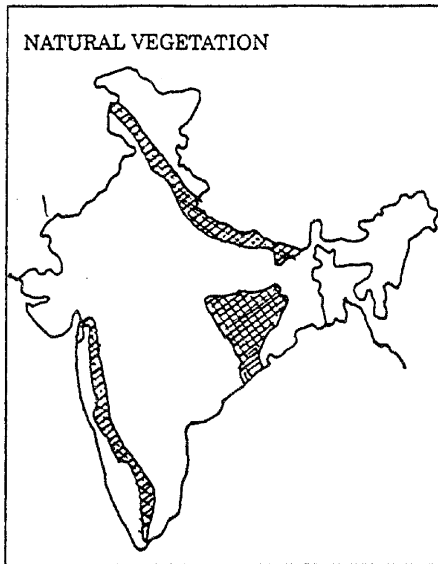
- (a) journalist (b) litterateur  
(c) musician (d) industrialist

39. In the given figure of human anatomy, the part marked 'X' is:



- (a) Urethra (b) Ureter  
(c) Ductus deferens (d) Nephron

40. The shaded areas in the given map show the distribution of:



- (a) Dry tropical deciduous forest  
(b) Evergreen forest  
(c) Moist tropical deciduous forest  
(d) Alpine forest

41. The main constituent of cosmic rays is:

- (a) high energy proton (b) high energy electron

(c) high energy infra-red radiation

(d) high energy ultraviolet rays

42. A new chapter IV A on Fundamental Duties was inserted in the Indian Constitution in:

- (a) 1972 (b) 1976 (c) 1980 (d) 1984

43. Match List I (Continent) with List II (% of population with more than 65 years of age) and select the correct answer using the codes given below the lists:

List I  
(Continent)

List II  
(% of population with more than 65 years of age)

- |              |       |
|--------------|-------|
| A. Africa    | 1. 15 |
| B. Asia      | 2. 10 |
| C. Australia | 3. 06 |
| D. Europe    | 4. 03 |
|              | 5. 12 |

Codes:

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

44. The Indian National Army (I.N.A.) came into existence in:

- (a) Burma (b) Japan  
(c) Malaysia (d) Singapore

45. The dotted region in the given map shows:



- (a) Baguios (b) Cyclones  
(c) Hurricanes (d) Typhoons

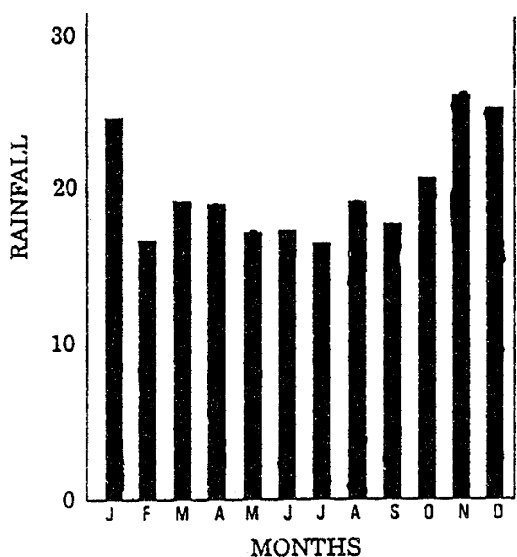
46. The famous sportsman Michael Jordan is associated with:

- (a) Athletics (b) Tennis  
(c) Golf (d) Basketball

47. The rise of a liquid in a capillary tube is due to:

- (a) diffusion (b) osmosis  
(c) surface tension (d) viscosity

48. The mean monthly rainfall given in the diagram pertains to:



49. When white light undergoes dispersion by a prism, the colour that suffers minimum deviation is:

- (a) Cherapunji (b) Colombo  
(c) Darwin (d) Singaproe

- (a) Green (b) Red  
(c) Violet (d) Yellow

50. Match List I (*Alloy*) with List II (*Composition*) and select the correct answer using the codes given below the lists:

List I (Alloy)	List II (Composition)
A. Brass	1. Copper, Zinc, Tin
B. Bronze	2. Copper, Aluminium, Magnesium, Manganese
C. Duralumin	3. Copper, Tin
D. Monel Metal	4. Copper, Nickel
	5. Copper, Zinc

**Codes:**

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

51. Which one of the following statements related to India Millennium Deposit (IMD) scheme is *not* correct?

- (a) The IMD scheme was launched by SBI  
(b) It was meant for NRIs and Overseas Corporate Bodies under the control of NRIs  
(c) It is exempt from Gift Tax, Income Tax and Wealth Tax  
(d) It is fully tradable in secondary market

52. Match List I (*Wildlife Sanctuaries*) with List II (*States*) and select the correct answer using the codes given below the lists:

List I (Wildlife Sanctuaries)	List II (States)
A. Kanha	1. Orissa
B. Simlipal	2. Madhya Pradesh
C. Tal Chapper	3. Gujarat
D. Nal Sarovar	4. Rajasthan
	5. Maharashtra

**Codes:**

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

53. The new States of Meghalaya, Manipur and Tripura were created in:

- (a) 1970 (b) 1971 (c) 1972 (d) 1973

54. The contact of two air masses differing sharply in humidity originates:

- (a) tropical cyclones  
(b) inter-tropical convergence  
(c) temperate cyclones  
(d) tropospheric instability

55. Foreign Direct Investment inflows into India peaked during the three-year period:

- (a) 1991-92 to 1993-94  
(b) 1993-94 to 1995-96  
(c) 1994-95 to 1996-97  
(d) 1996-97 to 1998-99

56. Match List I (*Type of Waves*) with List II (*Their Application*) and select the correct answer using the codes given below the lists:

List I (Type of Waves)	List II (Their Application)
A. Matter Waves	1. Surgery using Lasers
B. Electromagnetic Waves	2. Acoustic Radar
C. Elastic Waves	3. Electron Microscope
D. Longitudinal Waves	4. Musical Instruments

**Codes:**

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

57. Consider the following statements:

- India is the largest exporter of cashewnuts in the world.
- India accounts for nearly 57 per cent of the world's buffalo population.
- India ranks fourth in the world production of natural rubber.
- India ranks first in the world production of both mango and banana.

Which of these statements is/are correct?

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

58. In which part of the living cell, does Krebs' Cycle operate?

- (a) Chloroplast (b) Leucoplast  
(c) Mitochondrial matrix (d) Nucleosome

59. Who among the following authored the book "Plain Speaking"?

- (a) A.B. Vajpayee (b) E.K. Nayanar  
(c) L.K. Advani (d) N. Chandrababu Naidu

60. The presence of antiparticle was first theoretically proposed by:

- (a) Abdus Salam (b) John Dalton  
(c) P.A.M. Dirac (d) R.P. Feynman

61. Match List I (*Local wind*) with List II (*Country*) and select the correct answer using the codes given below the lists:

List I

(*Local wind*)

- A. Chili  
B. Brickfielder  
C. Khamsin  
D. Purga

List II

(*Country*)

1. Russia  
2. Australia  
3. Tunisia  
4. Egypt

Codes:

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

62. Consider the following statements:

The pitch of the sound produced by a stringed musical instrument can be increased by:

- decreasing the length of the string.
- increasing the tension of the string.
- increasing the length of the string.
- decreasing the tension of the string.

Which of these statements is/are correct?

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

63. The name of the Aspirin used as pain reliever is the Chemical name of:

- (a) Acetyl salicylate (b) Acetyl salicylic acid  
(c) Methyl salicylate (d) Methyl salicylic acid

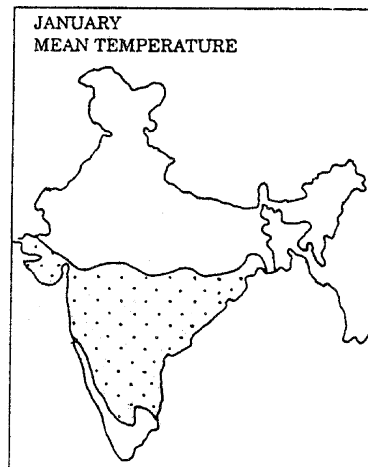
64. The milk looks white because it:

- (a) absorbs light  
(b) contains proteins  
(c) contains sugars  
(d) reflects the incident light

65. Which one of the following was the result of the third Buddhist Council in ancient India?

- (a) Adoption of Vinaya Pitaka  
(b) Compilation of Abhidhamma Pitaka  
(c) Permanent split of Buddhist Church into Sthaviras and Mahasanghikas  
(d) Composition of commentaries known as Vibhashas

66. The dotted area in the given map of India has the mean monthly temperature of January between:



- (a) 10 to 15°C (b) 15 to 20°C  
(c) 20 to 25°C (d) 25 to 30°C

67. When a thin film of oil is spread over water at rest, coloured bands are observed. This is the result of the phenomenon of:

- (a) dispersion (b) interference  
(c) polarization (d) scattering

68. Who of the following ladies were Chief Ministers?

- Janaki Ramachandran
- Nandini Satpaty
- Rajinder Kaur Bhattal
- Syeda Anwara Taimur

Select the correct answer using the following codes:

Codes:

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

69. Which one of the following statements relating to India's external debt during the decade of 90s is *not* correct?

- (a) Total external debt as a proportion of GDP has been on decline  
(b) Short term debt (with an original maturity of upto one year) as proportion of total debt has been on decline  
(c) The concessional debt as proportion of total debt has been on increase  
(d) The debt service payments as a proportion of current receipts have been on decline during the decade

70. Which one of the following is a fresh water fish?

- (a) Pomfret (b) Rohu (c) Sardine (d) Salmon

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

List I

(*Name of the Governor General of India*)

List II

(*Year in which appointed*)

- |                                |         |
|--------------------------------|---------|
| A. Lord Cornwallis             | 1. 1786 |
| B. Lord Dalhousie              | 2. 1798 |
| C. Lord Mornington (Wellesley) | 3. 1828 |
| D. Lord William Bentinck       | 4. 1848 |

**Codes:**

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

72. The new alluvial deposits found in the Gangetic plain are known as:

- (a) Bhabar (b) Bhangar  
(c) Khadar (d) Terai

73. The first State to have electronic voting machines for its Assembly Elections is:

- (a) Goa  
(b) Punjab  
(c) Delhi  
(d) Andhra Pradesh

74. Which one of the following books was written by Jayadeva?

- (a) *Atma Bodha*  
(b) *Buddha Charita*  
(c) *Gita-Govinda*  
(d) *Rajatarangini*

75. Brihadeswara temple is located at:

- (a) Tanjore (b) Mysore  
(c) Madurai (d) Halebid

76. Which of the following is the largest island?

- (a) Sumatra (b) Madagascar  
(c) Honshu (d) Cuba

77. Core of a transformer is made up of:

- (a) Soft iron  
(b) Steel  
(c) Copper  
(d) Aluminium

78. Which one of the following vitamins contains cobalt?

- (a) Vitamin B<sub>1</sub>  
(b) Vitamin B<sub>2</sub>  
(c) Vitamin B<sub>6</sub>  
(d) Vitamin B<sub>12</sub>

79. Which one of the following States is the largest producer of coffee?

- (a) Karnataka  
(b) Kerala  
(c) Assam  
(d) Arunachal Pradesh

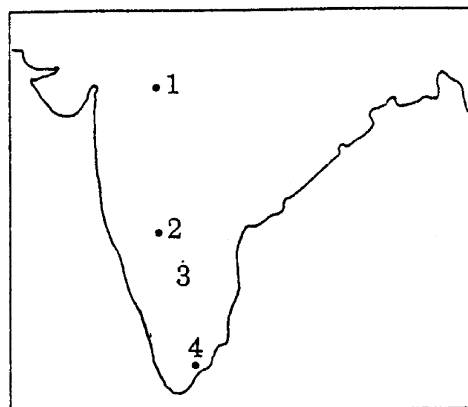
80. Saffron is dried

- (a) flower buds  
(b) styles  
(c) perianth  
(d) stigmas

81. Four historical places of ancient India have been marked in the given map as 1, 2, 3 and 4.

The names of the places are:

- (a) Bagh  
(b) Korkai  
(c) Somnathpur  
(d) Sringeri



Match them using the codes given below:

**Codes:**

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

82. Which one of the following plants is useful in treating hypertension?

- (a) *Cinchona* (b) *Ocimum* (c) *Rauwolfia* (d) *Vinca*

83. Who among the following Chola kings reigned as Kulottunga Chola I?

- (a) Vikramaditya I (b) Vikramaditya II  
(c) Rajaraja Narendra I (d) Rajendra III

84. Consider the following substances:

1. Prothrombin 2. Calcium  
3. Vitamin K 4. Actin

Which of these is/are required for the coagulation of blood?

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

85. In which one of the industries is pure silicon used?

- (a) Electronics (b) Paint (c) Pharmaceutical (d) Textile

**ANSWERS**

1. (d)	2. (d)	3. (a)	4. (a)	5. (b)
6. (d)	7. (a)	8. (c)	9. (a)	10. (c)
11. (c)	12. (a)	13. (b)	14. (a)	15. (a)
16. (a)	17. (d)	18. (b)	19. (b)	20. (b)
21. (a)	22. (d)	23. (d)	24. (a)	25. (d)
26. (d)	27. (a)	28. (d)	29. (a)	30. (a)
31. (c)	32. (a)	33. (a)	34. (a)	35. (c)
36. (b)	37. (b) (It was launched in 1951)			38. (b)
39. (b)	40. (b)	41. (c)	42. (b)	43. (a)
44. (d)	45. (c)	46. (a)	47. (b)	48. (a)
49. (c)	50. (c)	51. (c)	52. (a)	53. (c)
54. (b)	55. (a)	56. (d)	57. (a)	58. (a)
59. (b)	60. (a)	61. (d)	62. (a)	63. (a)
64. (d)	65. (b)	66. (d)	67. (a)	68. (b)
69. (d)	70. (b)	71. (d)	72. (b)	73. (a)
74. (c)	75. (a)	76. (b)	77. (a)	78. (d)
79. (a)	80. (d)	81. (d)	82. (c)	83. (d)
84. (a)	85. (a)			