

Instructions

- This practice set consists of 100 questions.
- All questions are compulsory and carry equal marks.
- Answer the questions quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend time on any question.

1. What does Baudhayan theorem (Baudhayan Sulva Sutra) relate to?

- Lengths of sides of a right-angled triangle
- Calculation of the value of π
- Logarithmic calculations
- Normal distribution curve

2. Who amongst the following was a leader during the 1857 revolt?

- Chaudan Hajari
 - Dinkondhu Mahapatra
 - Upendra Jena
 - Madhira Bhanole
- 1 and 3
 - Only 2
 - 1, 2 and 3
 - All of these

3. Who can extend the jurisdiction of a High Court to any Union Territory or exclude it?

- Parliament
- President
- Governor
- Chief Minister

4. Four resolutions were passed at the famous Calcutta session of Indian National Congress in 1906. The question of either retention or of rejection of these four resolutions became the cause of a split in Congress at the next Congress session held in Surat in 1907. Which one of the following was not one of these resolutions?

- Annulment of partition of Bengal
- Boycott
- National education
- Swadeshi

5. With reference to the Hoysala Art, consider the following statements :

- Typical features are polygonal (star-shaped) rather than square plan high plinth which offers the windings of temples a huge length of vacant space to be elaborately carved with sculptures and pyramidal Siharas.
- The delicate and minute carvings is the most attractive feature of Hoysala temples.

Which of the statement(s) given above is/are correct?

- Only 1
- Only 2
- Both 1 and 2
- Neither 1 nor 2

6. The latest Harappan site discovered in Gujarat is

- Dholavira
- Khanola
- Kuntasi
- Manda

7. In the Sarkars or Districts, the Faujdars were usually in charge of maintenance of law and order. Which of the following was not one of the duties of the Faujdar?

- Policing of the roads
- Suppression of disorder
- Collection of information about the happenings in the district
- Make demonstration is of force to over-law opposition to the revenue authorities

8. Who among the following first used the word 'Swadeshi'?

- Raja Ram Mohan Roy
- Bal Gangadhar Tilak
- Mahatma Gandhi
- Swami Vivekanand

9. In which year was the statue of the Cuttack Zila School raised to that of a High English School?

- 1874
- 1867
- 1848
- 1879

10. Thiruvachanam, which occupies a place in Tamil Nadu sacred literature analogous to the Upanishads contains the composition of

- Sambandar
- Appar
- Sundarar
- Manikkavachakar

11. Which one of the following is not a feature of Lothal?

- A dockyard
- Rectangular and circular fire altars for animal sacrifice
- Depiction of a ship on a seal
- Evidence of the use of the plough

12. Consider the following statements:

- The cave temples and monasteries at Ellora are located in Aurangabad and Maharashtra.
- Sculptures inspired by Buddhism, Jainism and Hinduism, created elaborate rock carvings.

Which of the statement(s) given above is/are correct?
 a. Only 1 b. Only 2
 c. Both 1 and 2 d. Neither 1 nor 2

13. A European who worked ardently for the Indian National Movement and bitterly criticised the British rule by saying, "The British empire is rotten to the core, corrupt in every direction and tyrannical and mean," was
 a. AD Hume b. Sister Nivedita
 c. Annie Besant d. William Wedderburn

14. Consider the following statements about Turkish Art (I Indo-Islamic) features:

- The Pre-Turkish forms like **Listel** and **Beams** were replaced by true **arches** and **vaults** and the **spiral roofs** (**Shikhars**) by **domes**.
- Calligraphy is an important element of the decorative art in the buildings of this period.

Which of the statement(s) given above is/are correct?
 a. Only 1 b. Only 2
 c. Both 1 and 2 d. Neither 1 nor 2

15. Consider the following regarding powers of High Court:

- High Courts have full powers to make rules to regulate their business in relation to justice.
- They can also punish for their own contempt.

Which of the above statement(s) is/are correct?
 a. Only 1 b. Only 2
 c. Both 1 and 2 d. None of these

16. The province of Bihar and Odisha were formed on

- March, 1952
- March, 1951
- March, 1950
- March, 1953

17. Which of the following statements about the Mughal government is not correct?

- It was essentially military in nature.
- It was necessarily a centralised autocracy.

- The emperor had to obey the Islamic traditions.
- The ministers has no claim to be consulted as a matter of right.

18. Who among the following was a Jahangiri painter?

- Abul Hasan
- Abdus Samad
- Dasswant
- Mir Sayyid Ali

19. Consider the following statements:

- The caves of Kanheri were built by Buddhists.
- The caves of Elephanta were built by Kashi-rakata rulers.
- The caves of Elephanta were built by Gupta rulers.

Which of the above is/are true?
 a. Only 1 b. 2 and 3
 c. 1 and 2 d. All of these

20. Consider the following statements about Bauxite:

- Bauxite is a heterogeneous ore of aluminium.
- It is derived from Khoradite and Charnockite.

Which of the above statement is/are correct?
 a. Only 1 b. Only 2
 c. Both 1 and 2 d. None of these

21. The Gajapati were followed by the
 a. Mughals b. Shahs
 c. Marathas d. Ghis

22. Which stone inscription attests to the coming of the Marauders in Odisha?

- Hathigumpha
- Bhadrala
- Kharoshthi
- Kanakhara

23. With reference to Rajasthani miniature paintings features, consider the following statements:

- The miniature artists use paper, ivory, parchment, wooden tablets, leather, marble, cloth and walls for their paintings.
- The colours are made from minerals and vegetables, precious stones, as well as pure silver and gold.

Which of the statement(s) given above is/are correct?

- Only 1
- Only 2
- Both 1 and 2
- Neither 1 nor 2

24. Which confederacy was defeated by King Kharavela?

- Kalinga confederacy
- Malikshala confederacy
- Mathura confederacy
- Tamil confederacy

25. What is the correct sequence of the following events?

- Tilak's Home Rule League
- Komagatahar Incident
- Mahatma Gandhi's arrival in India

Select the correct answer using the codes given below the lists.

- 1, 2, 3
- 3, 2, 1
- 2, 1, 3
- 2, 3, 1

26. The core of the safety valve thesis rests on the assumption that

- a violent anti-colonial revolution was bound to occur unless a constitutional platform like the Congress was founded
- the Congress would assist the British in administering the colony
- the Congress leaders would constitute the colonial elite
- the Congress as a party would assist the colonial rulers to implement political and social reforms

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

List I	List II
A. Alauddin	1. Tarnata-Fateh-ud-din-Mubarak Shah
B. Amir-ud-Mulk (Multan)	2. Khizr-ul-Muluk
C. Amir Khusrav	3. Ibrah-ul-Muluk
D. Fajru-ud-Mulook	4. Taimur-Hind

Code	A	B	C	D	A	B	C	D	
a.	1	2	3	4	a.	4	3	2	1
b.	1	3	2	4	b.	2	1	4	3

28. What was the proposal made by Lokmanya Tilak at the Lucknow Session of the Congress in 1916 to transform the Congress from a deliberative body into one capable of leading a sustained movement?

- Transfer of leadership of the National Movement to the Home Rule League
- Acceptance of all the proposals of the Muslim League
- Formation of the Working Committee
- Appointment of Annie Besant as the President of the Congress

29. Which of the following was not a contemporary of the Indus or Harappan Civilization?

- Egypt
- Mesopotamia
- Sumar
- Greek

36. Consider the following statement and identify the author of the statement:
"I shall work for an India in which the poorest shall feel that it is their country, in whose making they have an effective voice, an India in which there shall be no high class and low class of people, an India in which all communities shall live in perfect harmony".
- Dr. B.R. Ambedkar
 - Mahatma Gandhi
 - Gandhiji Tagore
 - Pt. J.B. Nehru
37. Consider the following regarding State Legislatures:
- Parliament can abolish or create a State Legislative Council.
 - This can be done if the Legislative Assembly of the concerned state passes a resolution by special majority to that effect.
- Which of the above statements is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - None of these
38. Who amongst the following tried to recover South Malings?
- Anantadattwarman
 - Shaktivarman
 - Phalharajavarman
 - Bhavadattwarman
39. Consider the following statements:
- Manxoo was the greatest painter of Jahangir reign.
 - Aurangzeb was antagonistic towards miniature painting.
- Which of the statement(s) given above is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
40. Who among the following established Sonagura Mahavidyalaya, a good educational centre of time?
- Dharmapala
 - Mahipala
 - Nayapala
 - Rajapala
41. Who of the following is the author of a collection of poems called 'Golden Threshold'?
- Aruna Asaf Ali
 - Annie Besant
 - Sarojini Naidu
 - Vijayalakshmi Pandit
42. During the time of which Mughal emperor did the English East India Company establish its first factory in India?
- Akbar
 - Jahangir
 - Shahjahan
 - Aurangzeb
43. Which one of the following ministries is implementing the National Bamboo Mission in India?
- Ministry of Science and Technology
 - Ministry of Rural Development
 - Ministry of Agriculture
 - Ministry of North-Eastern Region
44. Consider the following statements:
- Coconut Palm Insurance Scheme (CPIS) is implemented in the Kerala, Karnataka and Tamil Nadu on pilot basis.
 - Coconut Palm Insurance Scheme (CPIS) is started implementing since 2009-10.
- Which of the statement(s) given above is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
45. Consider the following statements:
- Indian government announces the minimum support prices for the wheat, rice and sugarcane in a year.
 - The common paddy has higher minimum support price than the Paddy Grade-A.
- Which of the statements given above is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
46. Consider the following statements:
- Rashtriya Krishi Vikas Yojana aims to achieve 4% growth rate in the agriculture and allied sector of Indian economy during the path.
 - Rashtriya Krishi Vikas Yojana restricts the states from taking the decision to implement the scheme according to socio-environment conditions of area.
- Which of the statements given above is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
47. Consider the following statements:
- In Indian economy, the employment generated by the private sector is more than that of the public sector.
 - In Indian economy, the growth rate of public sector in the industrial areas like heavy and basic industries, machine goods sector etc. is more than of the private sector.
- Which of the statements given above is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
48. When was the National Food Security Mission (NFSM) launched in India?
- Rain Season (1999-2000)
 - Kharif Season (1999-2000)
 - Rabi Season (2007-2008)
 - Kharif Season (2007-2008)
49. Which one among the following Plans adopted the policy for the universalisation of elementary education in India?
- Sixth Plan
 - Eighth Plan
 - Ninth Plan
 - Eleventh Plan
50. Consider the following statements:
- India has attained self-sufficiency in almost all consumer goods.
 - In the term of capital goods, India still depends on the import.
- Which of the statements given above is/are correct?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
51. Which one of the following states is the first state to impose agriculture income tax in India?
- Madhya Pradesh
 - Uttar Pradesh
 - West Bengal
 - Bihar
52. Which of the following factors is considered as a passive soil former?
- Climate
 - Time
 - Soils
 - Parent material
53. Soil that owes its colour to oxides of iron is
- regur
 - bangar
 - laterite
 - alkaline

48. When you travel in certain parts of India, you will notice red soil, what is the main reason for this colour?

- Abundance of magnesium
- Accumulated humus
- Presence of ferric oxides
- Abundance of phosphates

49. Which one of the following type of tides is observed at an interval of every six months?

- Spring tides
- Neap tides
- Tropical tides
- Equinoctial spring tides

50. Coniferous trees are so named on the basis of the

- plant's shape
- size of the plant
- shape of the leaf
- type of the fruit

51. Cotton is facing competition from sugarcane in the region of the black soil in Maharashtra. This is due to

- declined yield of cotton in this region
- a general change in the climate of this region
- expansion of irrigation for which this region has become suitable for sugarcane cultivation which is a profitable crop
- increasing demand for sugar and rising prices of sugar in the other countries

52. Which among the following statements provides the best evidence that a river is flowing through a rift valley?

- The Chambal valley is marked by bed land topography.
- River Tapi does not have delta but estuary only.
- River Mahanadi flows through a gorge at Saktasala.
- River Colorado has the Grand Canyon along its valley.

53. Which one of the following factors is responsible for excessive soil erosion in Chhotanagpur plateau?

- Heavy rain throughout the year
- Loose sandy soil
- Deep ploughing by tractors
- Large scale felling of trees

54. Chambal river is a part of

- Sabermati basin
- Ganga basin
- Hemavati basin
- Godavari basin

55. Consider the following statements :

- Wheat is the second most important cereal crop in India.
- India produce about 12% of total wheat production of world.
- Wheat is primarily a tropical crop.
- About 14% of the total cropped area in the country is under wheat cultivation.

Which of the statements given above is/are not correct?

- Only 3
- 1, 2 and 4
- 1 and 4
- All of these

56. Consider the following statements :

- Ranaghatpagar project is across Chambal river.
- Kal project is across Tapi river.

Which of the above statements is/are true?

- Only 1
- Only 2
- Both 1 and 2
- None of these

57. At which one of the following places do the rivers Alaknanda and Bhagirathi merge to form Ganga?

- Devprayag
- Rudraprayag
- Kannaprayag
- Vairnuprayag

58. Match the following lists :

List I (Dam)	List II (River)
A. Pong Dam	1. Damodar
B. Tehri Dam	2. Yamnada
C. Sardar Sarovar Project	3. Bhagirathi
D. Koel Dam	4. Beas

Code

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

59. Match the following lists :

List I (Chairman)	List II (Committee)
A. K.M. Munshi	1. Union Powers Committee
B. Rajendra Prasad	2. Drafting Committee
C. Jawahar Lal Nehru	3. Business Committee
D. B.R. Ambedkar	4. Steering Committee

Code

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

60. Which is the Upper Chamber of State Legislature in India?

- Legislative Council
- Legislative assembly
- Governor's office
- None of the above

61. Procedure for creation of Legislative Council in States has been described in which Article of the Constitution?

- Article-59
- Article-169
- Article-269
- Article-369

62. Which one of the following states has the lowest number of elected members in the Rajya Sabha?

- Jharkhand
- Chhattisgarh
- Jammu and Kashmir
- Himachal Pradesh

63. While a proclamation of emergency is in operation, the duration of the Lok Sabha can be extended for a period

- not exceeding three months
- not exceeding nine months
- of one year at a time
- of two years at a time

64. In the Rajya Sabha, the states have been given seats

- in accordance with their population
- equally
- on the basis of population and economic position
- on the basis of present economic status

65. Who among the following recommended to the Parliament for the abolition of the Legislative Council in a State?

- President of India
- Governor of the concerned State
- Legislative Council of the concerned State
- Legislative Assembly of the concerned State

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

List I (Act)	List II (Feature)
A. The Indian Councils Act, 1862	1. Introduction of provincial autonomy
B. The Indian Councils Act, 1909	2. Introduction of the principle of election
C. The Government of India Act, 1919	3. Introduction of directness in provinces
D. The Government of India Act, 1935	4. Introduction of separate electorate for the Muslims

Code

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

67. Which one of the following is provided over by one who is not its member?

- Vidhan Sabha
- Council of Ministers
- Lok Sabha
- Rajya Sabha

68. What is the function of a microphone?

- To convert sound signals into electric signals
- To convert electric signals into sound signals
- To convert sound signals into electromagnetic waves
- None of the above

69. Optical fibre mainly used in communication is based on

- less absorption coefficient
- less scattering
- total internal reflection
- refraction

70. Nearly 30% of the solar radiations return back to the space without contributing anything to the Earth's surface temperature. This amount of radiation is known as

- black body
- tropopause
- earth's albedo
- mesopause

71. Vermicompost is a/an

- inorganic fertilizer
- toxic substance
- organic bio-fertilizer
- synthetic fertilizer

72. Which one among the following statement about an atom is not correct?

- Atoms always combine to form molecules.
- Atoms are the basic units from which molecules and ions are formed.

- Atoms are always neutral in nature.
- Atoms aggregate in large numbers to form the matter that we can see, feel and touch.

73. The pH of fresh groundwater slightly decreases upon exposure to air because

- carbon dioxide from air is dissolved in the water
- oxygen from air is dissolved in the water
- the dissolved carbon dioxide of the groundwater escapes into air
- the dissolved oxygen of the groundwater escapes into air

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

List I (Parts of Brain)	List II (Function)
A. Cerebrum	1. Reflex actions
B. Thalamus	2. Posture and balance
C. Cerebellum	3. Relayng impulses
D. Medulla oblongata	4. Voluntary control intelligence, speech etc

Code

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

75. Consider the following statements :

- Thirst and hunger feelings of man.
- Body temperature regulation in mammals.
- Salivation in mammals.
- Respiration in animals.

Which of the functions given above is/are performed by the hypothalamus?

- 1 and 3
- 1 and 2
- 2 and 3
- 2 and 4

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

List I (Vector)	List II (Disease)
A. Fleas	1. Malaria
B. Anopheles	2. Hepatitis fever
C. Sand fly	3. Plague
D. Human louse	4. Kala-azar

Code

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

77. The technique used for the separation of DNA fragments is

- Northern blotting
- Southern blotting
- Western blotting
- None of these

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

List I (Vitamin)	List II (Chemical Compound)
A. Vitamin-A	1. Thiamine
B. Vitamin-B	2. Retinol
C. Vitamin-C	3. Ascorbic acid
D. Vitamin-D	4. Tocopherol

Code

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

79. Hyper-osmotic urine secreted by human beings is due to presence of depends on

- length of distal convoluted tubule
- width of Bowman's capsule
- loop of Henle
- length of proximal convoluted tubule

80. In which pair, both the organisms are amniotes?

- Man and Toad
- Frog and Man
- Salamander and Frog
- Salamander and Tadpole

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

List I (Organisation)	List II (Headquarters)
a. International Labour Organisation	Geneva
b. International Maritime Organisation	London
c. International Monetary Fund	Washington DC
d. International Atomic Energy Agency	New York

82. Which one of the following is not a Baltic State?

- Belarus
- Estonia
- Latvia
- Lithuania

83. Which one among the following is not one of the G-4 group of countries that are aspiring for permanent membership of the Security Council of the United Nations?

- Brazil
- Germany
- Australia
- Japan

84. Where is National Institute of Nutrition located?

- Bengaluru
- Hyderabad
- Mysore
- Pune

85. Where is the International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) located?

- a. Bhopal
b. Hyderabad
c. Coimbatore
d. Machilipatnam

86. Which type/types of pen uses/type capillary action in addition to gravity for flow of ink?

- a. Fountain pen
b. Ballpoint pen
c. Gel pen
d. Both (b) and (c)

87. Post office box is a device for measuring resistance based on the principle of

- a. Potentiometer
b. Meter bridge
c. Ohm meter
d. Galvanometer

88. The acidification of oceans is increasing. Why is this phenomenon a cause of concern?

- The growth and survival of calcareous phytoplankton will be adversely affected.
- The growth and survival of coral reefs will be adversely affected.
- The survival of some animals that have Phytoplankton larvae will be adversely affected.
- The cloud seeding and formation of clouds will be adversely affected.

Which of the statement(s) given above is/are correct?

- a. 1, 2 and 3
b. Only 2
c. 1 and 3
d. All of these

89. Which of the following can be threats to the biodiversity of a geographical area?

- Global warming
- Fragmentation of habitat
- Invasion of alien species
- Promotion of vegetarianism

Select the correct answer using the codes given below.

- a. 1, 2 and 3
b. 2 and 3
c. 1 and 4
d. All of these

90. Consider the following:

- Black-necked crane
- Cheetah
- Flying squirrel
- Snow leopard

Which of the above are naturally found in India?

- a. 1, 2 and 3
b. 1, 3 and 4
c. 2 and 4
d. All of these

91. In which one among the following categories of protected areas in India are local people not allowed to collect and use the biomass?

- a. Biosphere reserves
b. National parks
c. Wetlands declared under Ramsar Convention
d. Wildlife sanctuaries

92. In which of the following states is lion-tailed macaque found in its natural habitat?

- Tamil Nadu
- Kerala
- Karnataka
- Andhra Pradesh

Select the correct answer(s) using the codes given below.

- a. 1, 2 and 3
b. Only 1
c. 1, 3 and 4
d. All of these

93. A particular State in India has the following characteristics:

- It is located on the same latitude which passes through Northern Rajasthan.
- It has over 80% of its area under forest cover.
- Over 12% of forest cover constitutes protected area network in this State.

Which one among the following States has all the above characteristics?

- a. Arunachal Pradesh
b. Assam
c. Himachal Pradesh
d. Uttarakhand

94. With reference to the wetlands of India, consider the following statements:

- The country's total geographical area under the category of wetlands is recorded more in Gujarat as compared to other States.
- In India the total geographical area of coastal wetlands larger than that of wetlands.

Which of the statement(s) given above is/are correct?

- a. Only 1
b. Only 2
c. 1 and 2
d. Neither 1 nor 2

95. Which of the following is/are unique characteristic(s)/characteristic(s) of equatorial forests?

- Presence of tall, closely set trees with crowns forming a continuous canopy.
- Co-existence of a large number of species.
- Presence of numerous varieties of epiphytes.

Select the correct answer (s) using the codes given below.

- a. Only 1
b. 2 and 3
c. 1 and 3
d. All of these

96. Consider the following animals:

- Sea cow
- Sea horse
- Sea lion

Which of the above is/are mammal(s)/mammals?

- a. Only 1
b. 1 and 3
c. 2 and 3
d. All of these

97. Two atoms are said to be isotopes if

- a. they have the same atomic number but different mass numbers
b. they have the same number of neutrons but different mass numbers
c. the sum of the number of protons and neutrons is the same, but the number of protons is different
d. they have the same number of neutrons, but different modes of radioactive decay

98. Which one of the following chemical compounds is responsible for the stimulation of tear glands by the onion?

- a. A phosphate compound
b. A nitrate compound
c. A sulphide compound
d. A chloride compound

99. How is the pressure cooker work?

- a. Heat cannot escape from the cooker.
b. Low pressure inside the cooker rises the boiling point of water.
c. High pressure inside the cooker rises the boiling point of water.
d. Steam inside the cooker makes food to cook with ease.

100. Mulundadava belonged to the family of

- a. Chalchipe
b. Humool
c. Chole
d. None of these