



BPSSC पुलिस अवर निरीक्षक (प्रा.) परीक्षा- 21.01.2026 (द्वितीय पाली) [Advt 05/2025]

Time: 120mins

Marks: 200

[1]: When was the first dry port and Inland Container Depot (ICD) of Bihar inaugurated?

Option 1:

21 October 2024

Option 2:

20 November 2024

Option 3:

21 November 2024

Option 4:

20 September 2025

[2]: By which other name is the Saryu River also known?

Option 1:

Son

Option 2:

Kosi

Option 3:

Kali

Option 4:

Ghaghara

[3]: Which of the following travelers gave a detailed description of coconut and betel?

Option 1:

Francis Bernier

Option 2:

Abdul Razzaq

Option 3:

Al-Biruni Samarqandi

Option 4:

Ibn Battuta

[4]: Who among the following built the famous Rajarajeshwara Temple of Tanjore?

Option 1:

Rajendra I

Option 2:

Rajaraja I

Option 3:

Kulottunga Chola

Option 4:

Rajendra II

[5]: Who among the following is known as Frontier Gandhi or Seemant Gandhi?

Option 1:

Subhas Chandra Bose

Option 2:

Lala Lajpat Rai

Option 3:

Khan Abdul Ghaffar Khan

Option 4:

Bhagat Singh

[6]: How many goals have been adopted by the United Nations for Sustainable Development Goals (SDGs)?

Option 1:

Option 2:

Option 3:

Option 4:

[7]: What is the full form of SEZ?

Option 1:

Special Environment Zone

Option 2:

Special Economic Zone

Option 3:

Social Economic Zone

Option 4:

Service Economic Zone

[8]: Arrange the following Presidents of India in the correct chronological order according to their tenure –

Option 1:

Fakhruddin Ali Ahmed

Option 2:

Dayal Sharma

Option 3:

Giani Zail Singh

R. Venkataraman

Option 5:

Neelam Sanjiva Reddy

Codes:

[9]: Which of the following commissions was constituted by the Government of India to review the relations between the Centre and the States?

Option 1:

Sarkaria Commission

Option 2:

Srikrishna Commission

Option 3:

Rajamannar Commission

Option 4:

Kher Commission

[10]: If a person is not a member of either House of Parliament but is appointed as the Prime Minister, what will be the status of his position?

Option 1:

He can continue in the office without being a member.

Option 2:

He must resign immediately after appointment.

Option 3:

He must become a member of either House of Parliament within 6 months.

Option 4:

None of these.

[11]:

In which language were the ancient Buddhist texts '**Jataka Tales**' originally written?

Option 1:

Prakrit

Option 2:

Pali

Option 3:

Sanskrit

Option 4:

Apabhramsha

[12]:

In plants, which of the following is most important in the process of **translocation (transport of food)**?

Option 1:

Xylem

Option 2:

Phloem

Option 3:

Stomata

Option 4:

Cortex

[13]: On which date is National Consumer Rights Day celebrated every year in India?

Option 1:

24 December

Option 2:

31 October

Option 3:

26 January

Option 4:

15 March

[14]: On which date is National Science Day celebrated every year in India?

Option 1:

12 January

Option 2:

28 February

Option 3:

15 August

Option 4:

14 November

[15]: Modinagar city, which is known for its industrial and educational institutions, is located in which state of India?

Option 1:

Rajasthan

Option 2:

Haryana

Option 3:

Uttar Pradesh

Option 4:

Gujarat

[16]: Which of the following is a non-volatile memory that retains data even when the computer is powered off?

Option 1:

RAM

Option 2:

ROM

Option 3:

Cache

Option 4:

Register

[17]: NDA stands for _____.

Option 1:

National Disaster Act

Option 2:

National Defence Academy

Option 3:

North Defence Academy

Option 4:

North Dynamic Academy

[18]: By which year has the World Health Organization (WHO) set the target to eliminate measles and rubella from the South-East Asia region?

Option 1:

Option 2:

Option 3:

Option 4:

2030

2045

2050

2026

[19]: Which compound is essential in the process of soap making (Saponification)?

Option 1:

Acetic acid

Option 2:

Ethanol

Option 3:

Sodium hydroxide

Option 4:

Ester

[20]: Which element is a noble gas?

Option 1:

Oxygen

Option 2:

Fluorine

Option 3:

Neon

Option 4:

Nitrogen

[21]: Which crop is the 'odd one out'?

Option 1:

Rice

Option 2:

Jowar

Option 3:

Maize

Option 4:

Wheat

[22]: Which of the following pairs is not correctly matched?

Option 1:

Manas – Assam

Option 2:

Kanha – Madhya Pradesh

Option 3:

Periyar – Kerala

Option 4:

Nagarjun – Telangana

[23]: Which country has a currency called 'Rupiah'?

Option 1:

Cambodia

Option 2:

Indonesia

Option 3:

Nepal

Option 4:

Mauritius

[24]: The 'Supernova theory' related to the origin of the universe was proposed by whom?

Option 1:

James Jeans

Option 2:

Immanuel Kant

Option 3:

Otto Schmidt

Option 4:

Fred Hoyle

[25]: Which of the following books or works was not written by Phanishwar Nath Renu?

Option 1:

Maila Anchal

Option 2:

Parti Parikatha

Option 3:

Kitne Chaurahae

Option 4:

Gunahon Ka Devta

[26]: What is the main objective of the 'PM-USHA' scheme?

Option 1:

Providing free mid-day meals to students in government schools

Option 2:

Improving the quality and infrastructure of higher education institutions in the country

Option 3:

Providing low-interest loans to farmers in rural areas

Option 4:

Providing free gas connections to women from poor families

[27]: INFLIBNET works for the development and networking of which field?

Option 1:

Trade

Option 2:

Service sector

Option 3:

Library

Option 4:

Transport

[28]: Which of the following movements is not correctly matched with its year?

Option 1:

Champaran Satyagraha – 1917

Option 2:

Kheda Movement – 1918

Option 3:

Khilafat Movement – 1928

Option 4:

Non-Cooperation Movement – 1920

[29]: Which of the following folk dance and state pairs is not correctly matched?

Option 1:

Bihu – Assam

Option 2:

Ghoomar – Rajasthan

Option 3:

Phag – Haryana

Option 4:

Rai – Himachal Pradesh

[30]: Who mainly led the Indian Revolt of 1857 in Bihar?

Option 1:

Pir Ali Khan

Option 2:

Amar Singh

Option 3:

Babu Kunwar Singh

Option 4:

Tatya Tope

[31]: On which island of Indonesia is Mount Dukono volcano, which recently experienced a major eruption, located?

Option 1:

Java

Option 2:

Sumatra

Option 3:

Halmahera

Option 4:

Bali

[32]: Where did the formal beginning of the Revolt of 1857 take place?

Option 1:

Jhansi

Option 2:

Meerut

Option 3:

Delhi

Option 4:

Kanpur

[33]: Which movement truly established Mahatma Gandhi as a 'national leader'?

Option 1:

Champaran Satyagraha

Option 2:

Non-Cooperation Movement

Option 3:

Rowlatt Satyagraha

Option 4:

Kheda Satyagraha

[34]: Which metal was first widely used in the history of human civilization?

Option 1:

Iron

Option 2:

Copper

Option 3:

Gold

Option 4:

Bronze

[35]: Who was the chief priest (Rajpurohit) of King Madhav?

Option 1:

Vashistha

Option 2:

Gautama

Option 3:

Vishwamitra

Option 4:

Bharadwaj

[36]: Which statement about the Prime Minister is correct?

- (i) He presides over meetings of the Cabinet.
 - (ii) He allocates work among the ministers.
 - (iii) He coordinates among all departments.
 - (iv) He appoints the Chief Justice, ambassadors, etc.
-

Option 1:

(i) and (ii) are correct.

Option 2:

(i), (ii), and (iii) are correct.

Option 3:

Only (ii) and (iii) are correct.

Option 4:

(i), (ii), (iii), and (iv) are correct.

[37]: Two statements are given below. One is labelled as Assertion (A) and the other as Reason (R).

Select the correct answer using the code given below:

Assertion (A): The Chief Minister has an important role in legislative matters.

Reason (R): The Chief Minister plays an important role in policy formulation and in presenting government bills in the legislature.

Option 1:

Both Assertion (A) and Reason (R) are correct and Reason (R) correctly explains Assertion (A).

Option 2:

Both Assertion (A) and Reason (R) are correct but Reason (R) does not correctly explain Assertion (A).

Option 3:

Option 4:

Assertion (A) is correct but Reason (R) is incorrect. Assertion (A) is incorrect but Reason (R) is correct.

[38]: Which of the following Tiger Reserves is located in Bihar?

Option 1:

Valmiki

Option 2:

Palamu

Option 3:

Jim Corbett

Option 4:

Ranthambore

[39]: Which of the following statements is correct?

Option 1:

Al_2O_3 is only an oxidation reaction

Option 2:

Al_2O_3 is only a reduction reaction

Option 3:

Both oxidation and reduction occur in Al_2O_3

Option 4:

Al_2O_3 is not a redox reaction

[40]: Study the following statements and answer:

- (i) In India, the non-agricultural sector in villages is not very large.
- (ii) The number of people employed in non-agricultural activities is extremely small.
- (iii) With the expansion of good roads, transport, and other non-agricultural facilities, non-agricultural activities will increase in the coming years.

Option 1:

(i) and (ii)

Option 2:

(ii) and (iii)

Option 3:

(i) and (iii)

Option 4:

(i), (ii), and (iii)

[41]: Which statements are correct regarding Primary Agricultural Credit Societies (PACS)?

- (i) They provide short-term loans for the agricultural sector.
- (ii) A minimum of 15 persons are included.
- (iii) Loans are usually given for one year and can later be extended up to three years.
- (iv) They provide micro-financial services to non-profit organizations.

Option 1:

Only (i)

Option 2:

Only (ii)

Option 3:

Only (iii) and (iv)

Option 4:

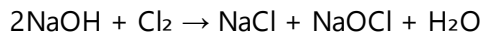
Only (i) and (iii)

[42]: Which of the following equations is balanced?

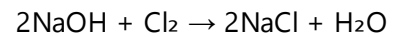
Option 1:



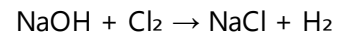
Option 3:



Option 2:



Option 4:



[43]: The following statements are given about the Antyodaya Anna Yojana:

- (1) It was launched in the year 2000.
- (2) Families above the poverty line were identified by the central government.
- (3) 20 kg of food grains are provided to rural families.
- (4) Rice is provided at ₹3 per kilogram.

Choose the correct statements:

Option 1:

Option 2:

Option 3:

Option 4:

Only 1 and 2 are correct Only 1 and 4 are correct Only 3 and 4 are correct Only 2 and 3 are correct

[44]: Which statements about Minimum Support Price (MSP) and Issue Price are correct?

- (i) Minimum Support Price (MSP) is given by the government to farmers for their crops.
- (ii) Under the issue price, the government sells food grains through the Public Distribution System (PDS).
- (iii) MSP is always lower than the issue price so that farmers can benefit.
- (iv) Issue price provides food grains to poor people at subsidized rates.

Option 1:

Only (i), (ii), and (iv)

Option 2:

Only (iii) and (iv)

Option 3:

Only (ii) and (iv)

Option 4:

All of the above

[45]: Choose the correct statements about mineral resources in India:

- (i) India is rich in various mineral resources.
- (ii) Bihar, which consists of peninsular rocks, contains many iron-rich minerals.
- (iii) Peninsular rocks mainly contain both metallic and non-metallic minerals.

Option 1:

Only (i)

Option 2:

Only (ii)

Option 3:

Only (iii)

Option 4:

Only (i) and (iii)

[46]: Which statements related to coal resources are correct?

- (i) Tertiary coal deposits in India are found in the state of Assam.
- (ii) Tamil Nadu, West Bengal, Jharkhand, and Odisha are major coal-producing states of India.
- (iii) Coal in India is obtained from Gondwana and Tertiary rock formations.

Option 1:

Option 2:

Option 3:

Option 4:

Only (i)

Only (ii)

Only (iii)

Only (i), (ii), and (iii)

[47]: Which of the following statements about the Bihar High Court is correct?

Statement I: The Patna High Court started its functioning in 1916 with a Chief Justice and six puisne judges.

Statement II: In 1947, the sanctioned strength of the court increased and six additional judges were included.

Option 1:

Only Statement I is correct

Option 2:

Both Statement I and Statement II are correct

Option 3:

Neither Statement I nor Statement II is correct

Option 4:

Only Statement II is correct

[48]: The payment made by the government to a producer so that the product can be supplied to the market at a lower price is called:

Option 1:

Grant

Option 2:

Cooperation

Option 3:

Appropriation

Option 4:

Subsidy

[49]: The Rangarajan Committee (2014) suggested a higher poverty line than the Tendulkar Committee. According to Rangarajan, what was the urban poverty line?

Option 1:

₹1407

Option 2:

₹1200

Option 3:

₹2200

Option 4:

₹972

[50]: Assertion (A): If an object moves in a circular path with uniform speed, its velocity remains constant.

Reason (R): Velocity has both magnitude and direction, and a change in direction results in a change in velocity.

Option 1:

Both A and R are correct and R correctly explains A.

Option 2:

Both A and R are correct but R does not correctly explain A.

Option 3:

A is correct but R is incorrect.

Option 4:

A is incorrect but R is correct.

[51]: What is the process called by which a parent cell divides into two or more daughter cells?

Option 1:

Cell synthesis

Option 2:

Cell division

Option 3:

Cell respiration

Option 4:

Cell fermentation

[52]: The twinkling of stars is mainly due to which phenomenon?

Option 1:

Scattering of light

Option 2:

Atmospheric refraction

Option 3:

Reflection of light

Option 4:

Diffraction of light

[53]: If the magnitude of electric current flowing through a straight conductor is increased, what will be the effect on the strength of the magnetic field produced?

Option 1:

It will increase

Option 2:

It will decrease

Option 3:

It will remain the same

Option 4:

It will first increase and then decrease

[54]: What is the main function of cerebrospinal fluid (CSF) in the brain?

Option 1:

It helps the parts of the brain move freely.

Option 2:

It protects the brain from external shocks and injuries.

Option 3:

It only controls blood pressure.

Option 4:

It controls muscle contraction.

[55]: Assertion (A): The cells that control the opening and closing of stomata are called guard cells.
Reason (R): When stomata close, guard cells shrink because they move outward.

Option 1:

Both A and R are correct and R correctly explains A.

Option 2:

Both A and R are correct but R does not correctly explain A.

Option 3:

A is correct but R is incorrect.

Option 4:

R is correct but A is incorrect.

[56]: What happens when a small piece of zinc is placed in dilute hydrochloric acid (HCl)?

Option 1:

Hydrogen gas is released.

Option 2:

Oxygen gas is released.

Option 3:

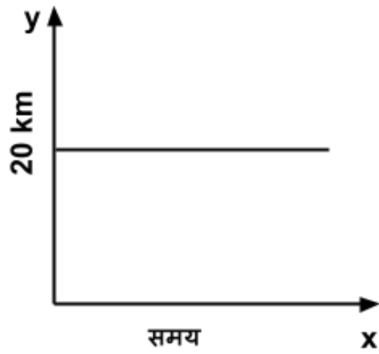
Carbon dioxide gas is released.

Option 4:

No reaction occurs.

[57]: In the figure below, the position of an object is shown (distance on the y-axis and time on the

x-axis). According to the graph, which statement about the motion of the object is correct?



Option 1:

The object is at rest.

Option 2:

The object is moving with uniform velocity.

Option 3:

The object is moving with non-uniform velocity.

Option 4:

The object has uniform acceleration.

[58]: Match List-I (Name of Writ) with List-II (Judicial Direction/Meaning).

| List-I | List-II |
|------------------|---|
| 1. Habeas Corpus | A. By what legal authority a person holds a public office |
| 2. Mandamus | B. Cancels or quashes an order |
| 3. Quo Warranto | C. Orders a public authority to perform a statutory duty |
| 4. Certiorari | D. Orders that a person be produced before the court |

Option 1:

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

Option 2:

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

Option 3:

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

Option 4:

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

[59]: Match List-I with List-II.

| List-I | List-II |
|---------------------------------------|---------|
| 1. Russian serfdom abolished | a. 1896 |
| 2. First Olympic Games (modern) | b. 1861 |
| 3. First commercial film | c. 1825 |
| 4. First passenger railway in England | d. 1895 |

Option 1:

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

Option 2:

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

Option 3:

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

Option 4:

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

[60]: Match List-I with List-II correctly.

| List-I | List-II |
|--|--------------------------------|
| a. Revamped Public Distribution System | (i) Priority households |
| b. Antyodaya Anna Yojana | (ii) Backward blocks |
| c. Annapurna Scheme | (iii) Poorest among the poor |
| d. National Food Security Act | (iv) Destitute senior citizens |

Option 1:

a-(ii), b-(iii), c-(iv), d-(i)

Option 2:

a-(i), b-(ii), c-(iii), d-(iv)

Option 3:

a-(iv), b-(iii), c-(ii), d-(i)

Option 4:

a-(i), b-(iv), c-(iii), d-(ii)

[61]: Match List I (Primitive Agriculture) with List II (Related State).

| List-I | List-II |
|----------|---------------------|
| a. Bewar | (i) Madhya Pradesh |
| b. Podu | (ii) Andhra Pradesh |
| c. Jhum | (iii) Jharkhand |

Option 1:

a-i, b-ii, c-iii

Option 2:

a-iii, b-ii, c-i

Option 3:

a-ii, b-iii, c-i

Option 4:

a-i, b-iii, c-ii

[62]: Match the following correctly.

| List-I | List-II |
|------------------|---|
| a. Kal Baisakhi | (i) Dry hot wind |
| b. Mango showers | (ii) Local storm |
| c. Loo | (iii) Pre-monsoon rainfall (Konkan coast) |
| d. Norwester | (iv) Local storm of Assam |

Option 1:

a-ii, b-iii, c-i, d-iv

Option 2:

a-iii, b-ii, c-iv, d-i

Option 3:

a-ii, b-iii, c-iv, d-i

Option 4:

a-iv, b-iii, c-ii, d-i

[63]: Match List-I with List-II.

| List-I | List-II |
|-----------|---|
| a. Pupil | (i) Focuses light |
| b. Retina | (ii) Regulates and controls the amount of light |
| c. Lens | (iii) Where images are formed |
| d. Cornea | (iv) Opaque membrane |

Option 1:

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

Option 2:

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

Option 3:

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

Option 4:

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

[64]: Match List-I with List-II.

| List-I | List-II |
|---------------------------|---------------------------|
| a. Metal oxide + acid | (i) $H_3O^+ + Cl^-$ |
| b. $HCl + H_2O$ | (ii) Salt + $CO_2 + H_2O$ |
| c. Metal carbonate + acid | (iii) Salt + H_2O |
| d. $NaOH + HCl$ | (iv) $NaCl + H_2O$ |

Option 1:

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

Option 2:

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

Option 3:

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

Option 4:

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

[65]: 'अग्रेषित' शब्द का सही समानार्थी (अंग्रेजी अर्थ) क्या होगा?

Option 1:

Forward

Option 2:

Fostering

Option 3:

Fraction

Option 4:

Forthwith

[66]: सार्वजनिक अधिसूचना का सबसे उपयुक्त अंग्रेजी अनुवाद क्या है ?

Option 1:

Private Notice

Option 2:

Public Notification

Option 3:

Official Report

Option 4:

General Information

[67]: 'Honorarium' का सबसे सटीक समतुल्य हिंदी शब्द क्या है ?

Option 1:

Option 2:

Option 3:

Option 4:

[68]: Necessary Steps Should be taken को हिंदी में रूपांतरित कीजिए –

Option 1:

Option 2:

Option 3:

Option 4:

आवश्यक कदम उठाए जाने चाहिए जरूरी कदम उठाना जरूरी कदम उठाए जाने की संभावना है इनमें से कोई नहीं

[69]: “जैसे ही बस रुकी रमेश उसमें चढ़ गया।” का अंग्रेजी रूपांतरण कीजिए –

Option 1:

Option 2:

As soon as the bus stops, Ramesh got into it.

As soon as the bus stopped, Ramesh got on it.

Option 3:

Option 4:

As soon as the bus had stopped, Ramesh is boarding it.

As the bus stopped, Ramesh had got in it.

[70]: निम्न में से कौन असत्य है ?

Option 1:

Option 2:

Option 3:

Option 4:

Article – अनुच्छेद

Section – धारा

Provision – नियम

Bill – विधेयक

[71]: The theme of which recently held international summit was “Building a Just World and a Sustainable Planet”?

Option 1:

Option 2:

Option 3:

Option 4:

G20

COP-16

ASEAN 2024

COP-29

[72]: Which country hosted the FIDE Women’s Chess World Cup Championship 2025?

Option 1:

Option 2:

Option 3:

Option 4:

India

China

Thailand

Kazakhstan

[73]: What was the name of the special FM channel launched by All India Radio for Prayagraj Mahakumbh 2025?

Option 1:

Option 2:

Option 3:

Option 4:

Kumbh FM

Kumbhvani

Radio Ganga

Mela Radio

[74]: On 3 October 2024, which language was granted the status of a 'Classical Language' by the Government of India?

Option 1:

Marathi

Option 2:

Hindi

Option 3:

Punjabi

Option 4:

Gujarati

[75]: The author of the famous novel *The Shadow Lines*, who received the International Booker Prize 2024, is:

Option 1:

Rabindranath Tagore

Option 2:

Amitav Ghosh

Option 3:

Daniel Barenboim

Option 4:

Anne Michaels

[76]: Who was awarded the Gandhi Peace Prize for the year 2021?

Option 1:

Brahma Kumaris Spiritual University

Option 2:

Art of Living

Option 3:

Gita Press, Gorakhpur

Option 4:

ISKCON

[77]: Which city will host the Commonwealth Games 2026?

Option 1:

Sydney

Option 2:

Cape Town

Option 3:

Glasgow

Option 4:

London

[78]: Who was awarded the Nobel Peace Prize 2025, announced in October 2025?

Option 1:

Donald Trump

Option 2:

Casey Cullman

Option 3:

María Corina Machado

Option 4:

Ole Danbolt

[79]: Who was awarded India's highest cinema honour, the Dadasaheb Phalke Award, for the year 2021?

Option 1:

Rajinikanth

Option 2:

Asha Parekh

Option 3:

Waheeda Rehman

Option 4:

Amitabh Bachchan

[80]: The prestigious Stockholm Water Prize 2025 was awarded to a renowned water historian and scientist from which country?

Option 1:

Option 2:

Option 3:

Option 4:

Austria

New Zealand

Norway

Japan

[81]: Under the Digital India initiative, on which date did the government announce the New PAN 2.0 project in 2024?

Option 1:

12 July

Option 2:

25 November

Option 3:

16 August

Option 4:

12 September

[82]: Who is the current President of World Athletics?

Option 1:

Thomas Bach

Option 2:

Sebastian Coe

Option 3:

Gianni Infantino

Option 4:

P. T. Usha

[83]: Who assumed office as the new Chairperson of SEBI (Securities and Exchange Board of India) on 1 March 2025?

Option 1:

Madhabi Puri Buch

Option 2:

Tuhin Kanta Pandey

Option 3:

Rajiv Kumar

Option 4:

Ajay Tyagi

[84]: According to Forbes India, which company was not included among the top four IT companies in India by market capitalization in 2025?

Option 1:

Tata Consultancy Services

Option 2:

Infosys

Option 3:

Tech Mahindra Limited

Option 4:

HCL Technologies

[85]: Which Indian state will host the BWF World Junior Badminton Championships 2025?

Option 1:

Manipur

Option 2:

Tripura

Option 3:

Assam

Option 4:

Sikkim

[86]: In 2025, which honour will be conferred upon British Prime Minister Keir Starmer to strengthen India–UK relations?

Option 1:

Sansad Ratna

Option 2:

Order of Merit

Option 3:

Living Bridge

Option 4:

Global Leadership Award

[87]:

Who was named the Best International Cricketer in the BCCI Naman Awards 2025?

Option 1:

Smriti Mandhana

Option 2:

Shafali Verma

Option 3:

Deepti Sharma

Option 4:

Harmanpreet Kaur

[88]: In March 2025, after the inclusion of Madhav Tiger Reserve in Madhya Pradesh, what became the total number of National Parks in India?

Option 1:

58

Option 2:

59

Option 3:

51

Option 4:

56

[89]: When was the First Asian Buddhist Summit held in New Delhi?

Option 1:

5–6 November 2024

Option 2:

December 2025

Option 3:

8 October 2024

Option 4:

February 2025

[90]: Under the "Viksit Bharat @2047" initiative, for how many years of development roadmap has NITI Aayog collected data and vision?

Option 1:

20 years

Option 2:

25 years

Option 3:

30 years

Option 4:

50 years

[91]: In how many years will ₹1500 earn the same simple interest at 8% as ₹8000 earns in 3 years at an interest rate of 4.5%?

Option 1:

9 years

Option 2:

6 years

Option 3:

8 years

Option 4:

7 years

[92]: Find the sum of the first n terms of the series:

$$\sqrt{3} + \sqrt{12} + \sqrt{27} + \sqrt{48} + \dots \dots \dots n$$

Option 1:

$$\frac{\sqrt{3}n(n+1)}{2}$$

Option 2:

$$\frac{n(n+1)}{2}$$

Option 3:

$$\frac{\sqrt{n}(n+1)}{2\sqrt{3}}$$

Option 4:

$$\frac{4\sqrt{3}n(n+1)}{2}$$

[93]: Statement (A): When the square of an odd natural number is divided by 4, the remainder is 1.
Reason (R): The square of an odd natural number can be written in the form $4k + 1$ for some natural number k.

Option 1:

Both A and R are true and R is the correct explanation of A.

Option 3:

Only A is true, R is false.

Option 2:

Both A and R are false.

Option 4:

Only R is true, A is false.

[94]: Reshma has to buy 24 books. The shopkeeper offers two discount options: Buy 5 get 1 free and Buy 3 get 50% off on 1. Which option should she choose to get more benefit?

Option 1:

Buy 5 get 1 free

Option 2:

Buy 3 get 50% off on 1

Option 3:

Both give equal discount

Option 4:

None of these

[95]: From a circular sheet a sector of 135° is cut and the two radii are joined to form a cone. If the radius of the circular sheet is 24 cm, then –

Option 1:

Circumference of the base of the cone – 18π cm

Option 3:

Curved surface area of the cone – 360π cm²

Option 2:

Radius of the base of the cone – 9 cm

Option 4:

Volume of the cone – $81\sqrt{55}\pi$ cm³

[96]: Which of the following pairs have H.C.F = 1?

(i) 101, 2003

(ii) 1261, 63154

(iii) 12369, 62454

Option 1:

Only (i)

Option 2:

Only (i) and (ii)

Option 3:

Only (ii)

Option 4:

Neither (i) nor (ii)

[97]: Two dice are thrown simultaneously. What is the probability that the sum of the numbers obtained is a perfect cube?

Option 1:

$1/36$

Option 2:

$1/18$

Option 3:

$1/9$

Option 4:

$5/36$

[98]: Sudhir, Sanjay and Shyam invested in a business in the ratio 5 : 4 : 3. After 3 months, Sudhir withdrew $2/5$ of his investment. After 4 months, Sanjay withdrew $1/4$ of his investment, while Shyam added $1/3$ more. If the total profit after 9 months is ₹19200, who gets the maximum profit and how much?

Option 1:**Option 2:****Option 3:****Option 4:**

Shyam, 2200

Sudhir, 6600

Sudhir, 6000

Sanjay, 4200

[99]: ₹8400 is invested in two parts. The first part is lent at 6% and the second at 12% simple interest per annum for 2 years. If the total interest obtained is ₹1752, find the two parts.

Option 1:

2400, 1800

Option 2:

2200, 6200

Option 3:

1800, 6200

Option 4:

3600, 3200

[100]: If a hemisphere and a cone have the same curved surface area and the same radius, then –

Option 1:

The slant height of the cone is half of r

Option 2:

The slant height of the cone is equal to r

Option 3:

The slant height of the cone is twice r

Option 4:

None of these