
GENERAL INSTRUCTIONS:

- I. The candidate must fill all the columns correctly.
- II. This Test Booklet consists of 21 pages, including 2x blank sheets for rough work.
- III. The booklet is divided into five sections A, B, C, D and E: English, Hindi, Mathematics, Science and GK.
- IV. Candidate must check the Test Booklet carefully. In case of any defect or discrepancy, the same must be informed to the invigilator for replacement, if required.
- V. Rough work must be done only in the given blank sheets.
- VI. Candidate must write his/her answers in the given Test Booklet only.

There is no negative marking for incorrect answer, if any.

SECTION A: ENGLISH (20 Marks)

1) Read the following passage carefully and answer the questions that follow:

The city of Jaipur, also known as the Pink City, is a testament to the rich cultural heritage and architectural prowess of the Rajput dynasty. Founded in 1727 by Maharaja Sawai Jai Singh II, the city was designed according to the principles of Vastu Shastra, an ancient Indian architectural treatise. The city's unique urban planning, which incorporates a grid system and broad avenues, was influenced by the Mughal and Rajput architectural styles. Jaipur's architectural landscape is dominated by the Hawa Mahal, a magnificent palace built in 1799 by Maharaja Sawai Pratap Singh. The palace's intricate latticework and ornate facades are a testament to the city's rich cultural heritage. The City Palace, another notable landmark, is a blend of Rajput and Mughal architectural styles, with its impressive courtyards, gardens, and temples.

The city's economy is driven by a diverse range of industries, including textiles, jewelry, and handicrafts. The city is also a major hub for IT and ITES companies, with many multinational corporations having their offices in the city. The city's infrastructure, including its roads, transportation systems, and public utilities, is well-developed and supports the city's growing economy. Despite its many attractions, Jaipur faces several challenges, including traffic congestion, pollution, and a shortage of water.

What is the significance of the grid system in Jaipur's urban planning? (1)

- a) It allows for more efficient traffic flow
- b) It provides a unique aesthetic appeal
- c) It is based on the principles of Vastu Shastra
- d) It is a result of British colonial influence

Which architectural style is dominant in the Hawa Mahal? (1)

- a) Rajput
- b) Mughal
- c) Gothic
- d) Art Deco

What is the name of the treatise that influenced the design of Jaipur? (1)

- a) Vastu Shastra
- b) Feng Shui
- c) Bauhaus
- d) De Stijl

What is the main industry that drives Jaipur's economy? (1)

- a) Textiles
- b) Jewelry
- c) Handicrafts
- d) IT and ITES

What is the name of the palace that is a blend of Rajput and Mughal architectural styles? (1)

- a) Hawa Mahal
- b) City Palace
- c) Amber Palace
- d) Jal Mahal

What is the major challenge faced by Jaipur in terms of its infrastructure? (1)

- a) Traffic congestion
- b) Pollution
- c) Water shortage
- d) All of the above

What is the initiative taken by the city's authorities to promote sustainable tourism? (1)

- a) Development of new infrastructure
- b) Implementation of measures to reduce pollution
- c) Promotion of eco-friendly practices
- d) All of the above

What is the result of the city's well-developed infrastructure? (1)

- a) Increased traffic congestion
- b) Reduced pollution
- c) Improved economy
- d) Decreased water shortage

Describe the architectural style of the Hawa Mahal and its significance in Jaipur's cultural heritage.

(1)

Discuss the challenges faced by Jaipur in terms of its infrastructure and economy in two points. (1)

The teacher is grading the exams. Which of the following is the passive voice of this sentence? (1)

- a) The exams are being graded by the teacher.
- b) The teacher is being graded by the exams.
- c) The exams are grading the teacher.
- d) The teacher is grading herself.

Choose the sentence where the verb has been used TRANSITIVELY. (1)

- a) He walks every morning.
- b) The team won the match.
- c) She talks to her friends.
- d) The bird flew in the sky.

Shespeak three languages. Fill in the correct Modal. (1)

- a) might
- b) can
- c) could
- d) must

Choose the sentence with an INTRANSITIVE verb. (1)

- a) She painted a picture.
- b) He sat down on the chair.
- c) He answered the question.
- d) I ate a banana for breakfast.

Which of the following sentences is in the passive voice? (1)

- a) The dog bites the man.
- b) The man was bitten by the dog.
- c) The dog is biting the man.
- d) The man bites the dog.

Fill in the blank with the correct form of the verb: "By next year, I (study) English for five years." (1)

- a) will have studied
- b) will study
- c) have studied
- d) study

Identify the correct form of the plural noun: "The (tooth) need to be brushed." (1)

- a) tooth
- b) teeths
- c) teeth
- d) tooths

Which of the following sentences is in the past perfect tense? (1)

- a) I ate breakfast at 8 am.
- b) I had eaten breakfast before I went to school.
- c) I was eating breakfast at 8 am.
- d) I will eat breakfast at 8 am.

I met European in the shop. Choose the correct article to fill in the blank: (1) a) a b) an c) the d) no article

Identify the correct form of the comparative adjective: "This cake is (delicious) than the one we had yesterday." (1)

- a) more delicious
- b) most delicious
- c) deliciouser
- d) delicious

SECTION B: हिंदी (20 Marks)

प्रश्न 1. निम्नलिखित गद्यांश को पढ़कर निर्देशानुसार पूछे गए प्रश्नों के उत्तर लिखिए -

भारत एक ऐसा देश है, जहाँ वीरता और साहस का विशेष महत्त्व है। हमारी संस्कृति और इतिहास में अनेक वीर सपूतों ने अपने अदम्य साहस और पराक्रम से देश की सुरक्षा ही नहीं की बल्कि देशवासियों के दिलों अपनी अमिट छाप भी छोड़ी। वीरता की अभिव्यक्ति अनेक प्रकार से होती है। वीरता तो एक अंतःप्रेरणा है। वीर, कारखानों में नहीं ढलते, न खेतों में उगाए जाते हैं, वे तो देवदार के वृक्ष के समान जीवनरूपी वन में स्वयं उगते हैं। वीर का दिल सबका दिल, उसके विचार सबके विचार और उसके संकल्प सबके संकल्प हो जाते हैं। समाज का हृदय वीर के हृदय में धड़कता है।

(i) इतिहास में वीरों ने क्या किया? (क) साहस और पराक्रम से देश की रक्षा की

(ख) देशवासियों के दिलों में घृणा पैदा की

(ग) भारतीय संस्कृति का हास किया

(घ) तलवार से देशवासियों का नाश किया

(ii) वीर पुरुष की क्या पहचान है?

(क) उसके विचार किसी से मेल नहीं खाते ।

(ख) उसके संकल्प समाज के संकल्प होते हैं।

(ग) वीर प्रतिदिन युद्ध में परास्त होता है।

(घ) वीर का हृदय हमेशा भयभीत रहता है।

(iii) वीरता किस प्रकार की प्रेरणा है?

(क) आन्तरिक (ख) बाह्य (ग) साहित्यिक (घ) तात्कालिक

(iv) वीरों का निर्माण कहाँ होता है?

(क) देवदार के वृक्षों पर (ख) जीवनरूपी वन में (ग) देवदार के वनों में (घ) कारखानों में

(v) कथन और कारण को चुनकर सही विकल्प का चयन कीजिए -

कथन (A) : वीरता एक अन्तः प्रेरणा है, जो देश-काल के अनुसार प्रकट होती है। कारण

(R) : वीर पुरुष देश से पहले स्वयं को प्राथमिकता देता है।

(क) कथन (A) तथा कारण (R) दोनों गलत हैं।

(ख) कथन (A) सही है परंतु कारण (R) गलत है।

(ग) कथन (A) तथा कारण (R) दोनों सही हैं। कथन (A) कारण (R) की सही व्याख्या करता है।

(घ) कथन (A) तथा कारण (R) दोनों सही हैं। कथन (A) कारण (R) की सही व्याख्या नहीं करता है।

प्रश्न 2: 'उपकार' शब्द में किस उपसर्ग का प्रयोग हुआ है? (1)

(क) उप (ख) कार (ग) पकार (घ) उपका

प्रश्न 3: 'सामाजिक' शब्द में किस प्रत्यय का प्रयोग हुआ है? (1)

(क) जिक (ख) माजिक (ग) इक (घ) सामा

प्रश्न 4: 'कुल' एवं 'कूल' श्रुतिभिन्नार्थक शब्दों के सही अर्थ चुनिए- (1)

(क) किनारा एवं नौका (ख) नदी एवं किनारा (ग) किनारा एवं वंश (घ) वंश एवं किनारा

प्रश्न 5: मन से किया गया कार्य कभी भी निरर्थक नहीं होता है, रेखांकित पद हेतु उपयुक्त विलोम शब्द चुनिए- (1)

(क) सार्थक (ख) अरथक (ग) भिन्नार्थक (घ) विपरीतार्थक

प्रश्न 6: 'आँख' शब्द के सही अर्थ वाले विकल्प को चुनिए- (1)

(क) सुरारि एवं दृग (ख) नेत्र एवं तुरंग (ग) नयन एवं अक्षि (घ) विपिन एवं तुरंग

प्रश्न 7: युद्ध क्षेत्र में योद्धाओं ने कृपाण से भयंकर युद्ध किया। रेखांकित शब्द का उपयुक्त पर्यायवाची शब्द चुनिए। (1) (क) गदा (ख) तलवार (ग) धनुष (घ) वस्त्र

प्रश्न 8: "जो बोल न पाता हो।" दिए गए वाक्यांश के अर्थ को व्यक्त करने वाला उपयुक्त शब्द चुनिए। (1) (क) अनभिज्ञ (ख) अव्यक्त (ग) मूक (घ) वाचाल

प्रश्न 9: "जो कर्म करने योग्य हो" दिए गए वाक्यांश के अर्थ को व्यक्त करने वाला उपयुक्त शब्द चुनिए। (1) (क) अकर्मक (ख) करणीय (ग) अगम्य (घ) अल्पज्ञ

प्रश्न 10: यहाँ अत्यधिक हरियाली छाई हुई है। रेखांकित शब्द में संज्ञा का कौन-सा भेद है?

(1) (क) व्यक्तिवाचक (ख) समूहवाचक (ग) द्रव्यवाचक (घ) भाववाचक

प्रश्न 11: 'क्षत्रिय' शब्द का स्त्रीलिंग शब्द क्या होगा? (1)

(क) वीरानी (ख) क्षत्राणी (ग) रानी (घ) वीरांगना

प्रश्न 12: उस वाक्य का चयन कीजिए, जिसमें 'अपादान कारक' का प्रयोग किया गया है- (1)

(क) वृक्ष से पत्ते गिरते हैं। (ख) मेरा दोस्त मेरे लिए उपहार लाया है। (ग) माँ से बोला भी नहीं जा रहा। (घ) वह तबला बजा रहा है।

प्रश्न 13: वह सुबह ही पढ़ाई शुरू कर देता है। रेखांकित शब्द में सर्वनाम के किस भेद का प्रयोग हुआ है? (1)

(क) संबंधवाचक सर्वनाम (ख) प्रश्नवाचक सर्वनाम (ग) निजवाचक सर्वनाम (घ) पुरुषवाचक सर्वनाम

प्रश्न 14: 'अकर्मक क्रिया' वाला वाक्य चुनिए। (1)

(क) बच्चे क्रिकेट खेल रहे हैं। (ख) नौकर कपड़े धो रहा है। (ग) माँ भोजन बना रही है। (घ) रेलगाड़ी चलती है।

प्रश्न 15: 'सच्चा मित्र' विषय पर 30 से 40 शब्दों में लेख लिखो। (2)

SECTION C: MATHEMATICS (20 Marks)

The sum of the predecessor and the successor of 9 is (1) a) -12 b) -18 c) 18 d) -16

The Product of 3 and 4 is (1) a) 17 b) 13 c) 5 d) 12

The mean of the first five natural numbers is (1) a) 2 b) 3 c) 4 d) 5

Write the given statement in the form of an equation. "Three times x subtracted from 10 is 23".
(1) a) b) c) d)

If the sum of the measures of two angles is 90° , then each angle is: (1) a) Acute b) Right c) Obtuse d) Straight

The number of medians in an isosceles triangle is (1) a) 2 b) 3 c) 4 d) 0

Anshu and Vishu share 20 sweets. They divide them in the ratio 3:2. How many sweets does Vishu have? (1) a) 5 b) 10 c) 12 d) 8

The reciprocal of a negative rational number is always: (1) a) positive b) negative c) 1 d) -1

The area of a parallelogram of base 5 cm and height 3.2 cm is: (1) a) 8 b) 12 c) 16 d) 20

Which of the following is the numeric coefficient of ? (1) a) -3 b) -1 c) 3 d) 1

20,00,000 in standard form is: (1) a) b) c) d)

The number of trees in different city parks is 33, 38, 48, 33, 34, 34, 33 and 24. The mode of this data is (1) a) 24 b) 34 c) 33 d) 48

Mohan bought six footballs for Rs. 9 each. He sold the footballs for Rs. 108. How much profit did he make? Also, find the profit percentage. (2)

In the diagram if AB is parallel to CD, then answer the following- (2) (a) Find the measure of the angle marked x. Give reason for your answer. (1) (b) Evaluate the value of y. Give reason for your answer. (1)

Find the perimeter of the figure given below (14 cm). (1)

Simplify: (2)

SECTION D: SCIENCE (20 Marks)

When an acid reacts with base it leads to formation of salt and water. Identify the correct statement about the nature of salt formed. (1)

- a) salt is only acidic in nature
- b) salt is only basic in nature
- c) salt is only neutral in nature
- d) salt can be acidic, basic or neutral

Which of the following statements is true for sexual reproduction in plants? (1)

- a) There is no seed formation.
- b) Leaves are the reproductive part of the plant.
- c) Both the parents are required for sexual reproduction in plants.
- d) Unisexual flowers contain both pistil and stamen in the same flower.

Given below is an equation for cellular respiration. Identify the type of respiration and its place of occurrence based on the products formed. (1)

Glucose (in the absence of oxygen) \rightarrow lactic acid + energy

- a) aerobic and occurs inside the muscle cell
- b) anaerobic and occurs inside the yeast cell
- c) anaerobic and occurs inside the muscle cell
- d) aerobic and occurs inside the yeast cell

When the above circuit is turned ON, what effect will you observe? (1)

- a) B bulb will glow first
- b) Only B and C bulb will glow
- c) All will glow together
- d) Only A and C will glow

The process when digested food is passed into the blood vessels in the wall of the intestine is known as (1)

- a) Absorption
- b) Assimilation
- c) Egestion
- d) Ingestion

Cuscuta plant is an example of (1)

- a) insectivorous plant
- b) saprotroph
- c) autotroph
- d) parasite

Which of the following is not a chemical change? (1)

- a) Ripening of fruit
- b) Crystallisation
- c) Rusting of iron
- d) Burning of coal

Branchy part of a tree above the stem is known as the (1)

- a) Canopy
- b) Crown
- c) Understorey
- d) Humus

Time period of a simple pendulum that covers 20 oscillations in 40 seconds will be (1)

- a) 2 seconds
- b) 0.5 seconds
- c) 10 seconds
- d) 0.2 seconds

A. Name the air tubes of insects. B. Also name the small opening on the sides of the body of an insect. (1)

a) A-Spiracles, B- Tracheae b) A- Bronchus, B- Tracheae c) A-Spiracles, B- Bronchioles d) A-Tracheae, B- Spiracles

Observe the given figure and identify which vehicle is moving the (i) fastest and (ii) slowest. (1)

a) A and B respectively b) C and B respectively c) D and A respectively d) B and C respectively

How does Amoeba obtain its food? (1)

a) By photosynthesis b) By engulfing it with pseudopodia c) By absorbing nutrients from the environment d) By decomposing organic matter

Which of the following is a good conductor of heat? (1)

a) Copper b) wood c) plastic d) rubber

Which mode of heat transfer occurs without any medium? (1)

a) Conduction b) Convection c) Radiation d) Heat cannot transfer without any medium

Which of the following statement is/are true about laboratory thermometers? (1)

(i) It has a kink to prevent fall of mercury (ii) It is designed specifically for body temperature ranges. (iii) Its range is -10 to 110°C (iv) Its range is 35 to 42°C a) i and iii b) i and iv c) iii only d) iv only

Which of these substances is an indicator that turns pink in basic solutions? (1)

a) Litmus paper b) Turmeric c) Phenolphthalein d) China Rose

The Blood vessel responsible for transportation of carbon dioxide rich blood from heart to lungs is (1)

a) Pulmonary artery b) Aorta c) Pulmonary vein d) Capillaries

Pollination refers to the- (1)

a) Transfer of pollen grains from filament to anther.

b) Transfer of pollen grains from the anther to stigma.

c) Transfer of pollen grains from the ovary to anther.

d) Transfer of pollen grains from the anther to ovule.

(i) Which lens is used as a magnifying glass and which mirror is used by dentist? (1)

(ii) If an object is placed at a distance of 1m from the plane mirror then what will be the distance between the object and the image? (1)

SECTION E: GENERAL KNOWLEDGE (20 Marks)

Who is known as the 'Iron Man of India'? (1) a) Jawaharlal Nehru b) Sardar Vallabhbhai Patel c) Bhagat Singh d) Subhash Chandra Bose

Who wrote the book 'Joothan: a Dalit's life'? (1) a) B.R. Ambedkar b) Omprakash Valmiki c) Khushwant Singh d) R.K. Narayan

Which Indian state is known as the 'Land of Rising Sun'? (1) a) Assam b) Arunachal Pradesh c) Nagaland d) Sikkim

_____ was the first woman ruler of Delhi. (1) a) Rani Lakshmi Bai b) Razia Sultan c) Mirabai d) Kiran Bedi

The Tropic of Cancer passes through _____ state in India. (1) a) Tamil Nadu b) Jammu and Kashmir c) Gujarat d) Nagaland

Which Article in Indian Constitution defines equality and prohibits any kind of social discrimination? (1) a) Article 29 b) Article 32 c) Article 15 d) Article 21

Match the following (1) i) Swami Dayanand Saraswati (a) Indian National Army ii) Vasco Da Gama (b) First war of independence iii) Subhash Chandra Bose (c) 1498 iv) Revolt of 1857 (d) Social reformer a) i-d, ii-c, iii-a, iv-b b) i-b, ii-a, iii-d, iv-c c) i-d, ii-b, iii-a, iv-a d) i-b, ii-a, iii-c, iv-d

Match the following (1) i) Founder of Mughal dynasty (a) Bhagat Singh ii) Founder of Buddhism (b) Qutub Minar iii) Qutubuddin-Aibak (c) Babur iv) Freedom Fighter (d) Gautam Buddha a) i-a, ii-d, iii-b, iv-c b) i-c, ii-d, iii-b, iv-a c) i-b, ii-d, iii-a, iv-c d) i-a, ii-c, iii-b, iv-d

The Ashoka Stambh belongs to which dynasty? (1) a) Maurya Dynasty b) Khalji Dynasty c) Lodi Dynasty d) Tughlaq Dynasty

Who led the Indian National Army during the World War II? (1) a) Jawahar Lal Nehru b) Sardar Vallabhbhai Patel c) Bhagat Singh d) Subhash Chandra Bose

Assertion (A): Earthquakes are caused by the sudden release of energy stored in the Earth's crust. Reason (R): The movement of tectonic plates creates stress in the Earth's crust, leading to earthquakes. (1) a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.

Assertion (A): The Himalayas play a crucial role in determining India's climate. Reason (R): The Himalayas block the cold winds from Central Asia, creating a milder climate in India. (1) a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.

Which place receives maximum rainfall in India? (1) a) Cherapunji b) Digboi c) Mawsynram d) Dibrugarh

Assertion (A): The Himalayas play a crucial role in determining India's climate. Reason (R): The Himalayas block the cold winds from Central Asia, creating a milder climate in India. (1) a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.

Which of the following was a major trade route during the Gupta period? (1) a) Silk Route b) Spice Route c) Grand Trunk Road d) Salt Route

The concept of 'Satyagraha' was introduced by which leader? (1) a) Jawaharlal Nehru b) Subhas Chandra Bose c) Mahatma Gandhi d) Lala Lajpat Rai

Assertion (A): The Maurya Empire was known for its extensive road network. Reason (R): Roads helped in better administration and trade within the empire. (1) a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.

Match the following (1) i) Telangana (e) Amravati ii) Tripura (f) Aizawl iii) Andhra Pradesh (g) Hyderabad iv) Mizoram (h) Agartala a) i-d, ii-c, iii-a, iv-b b) i-b, ii-a, iii-d, iv-c c) i-c, ii-d, iii-a, iv-b d) i-b, ii-a, iii-c, iv-d

Assertion (A): The coastal plains of India are home to large-scale agriculture and fishing industries. Reason (R): Coastal areas have a favourable climate for these industries due to their access to the sea. (1) a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.

The famous 'Sanchi Stupa' is located in which state of India? (1) a) Rajasthan b) Madhya Pradesh c) Uttar Pradesh d) Gujarat