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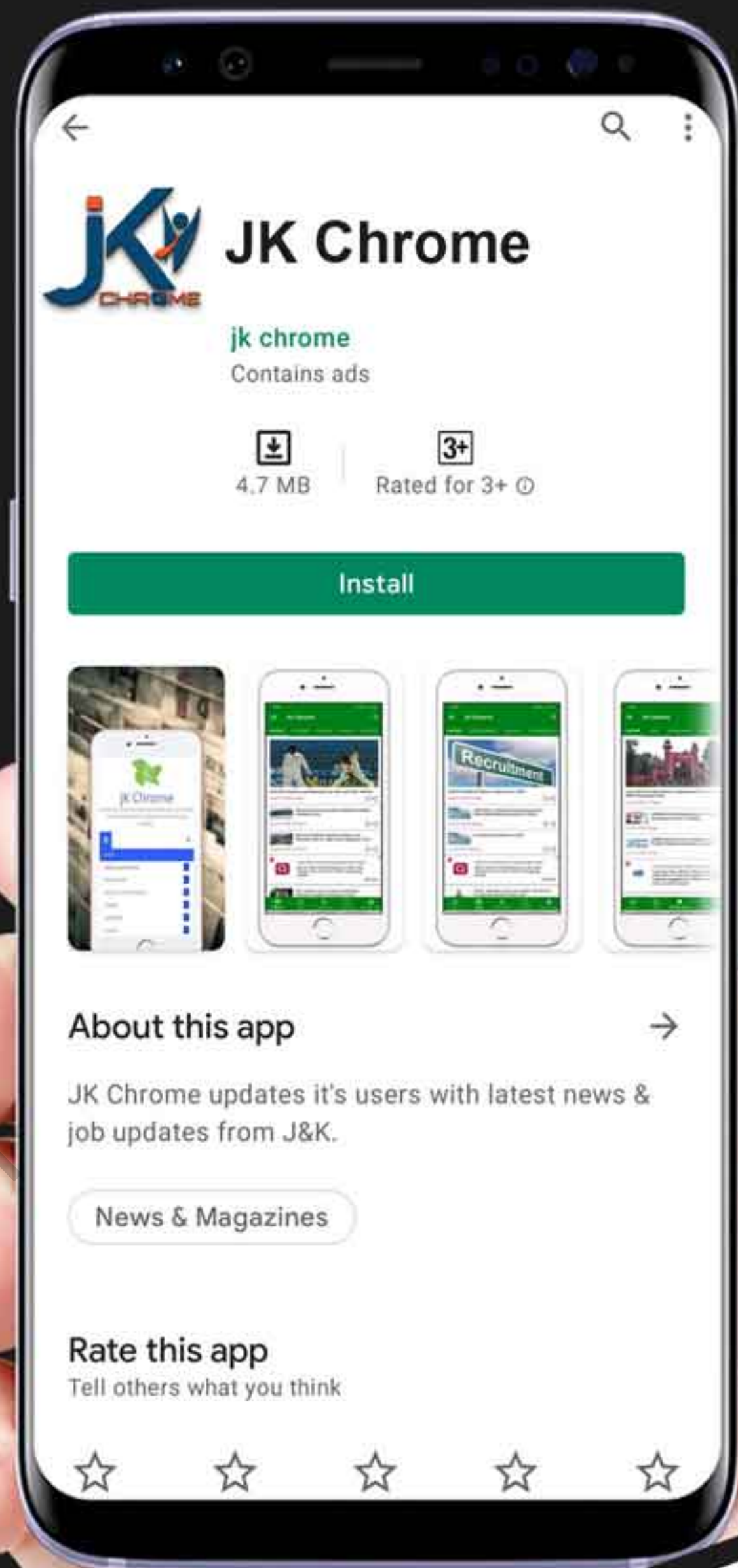
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DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. **006281**

Test Booklet Series

TEST BOOKLET
GENERAL STUDIES EXAMINATION
Paper - I
(91)

A

Time Allowed: Two Hours

Maximum Marks: 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES **NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write anything else on the Test Booklet.
4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Response sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Response Sheet provided. See directions in the Response Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Response sheet the response to various items in the Test Booklet you have to fill in some particulars in the Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Response Sheet**. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no **penalty** for that question.

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1. The comic book 'India's Women Unsung Heroes' released by the Ministry of Culture depicted the stories of unsung women heroes.

Which of the following is / are NOT correctly matched?

Names	State
i) Rani Abbakka	- Karnataka
ii) Matangiri Hazra	- Gujarat
iii) Velu Nachiyar	- Tamil Nadu

The answer is;

- A) i and ii only
 B) ii only
 C) i and iii only
 D) iii only
2. Consider the following statements regards Domestic Systematically Important Insurers (D-SIIs) in India;

1. RBI nominates certain insurers as D-SIIs
2. Currently LIC, GIC, New India Assurance co. Ltd have been designated as D-SIIs in India
3. D-SIIs are perceived as insurers that are 'too big or too important to fail' (TBTF).

The correct statement/s is/are

- A) 3 only
 B) 1 and 3 only
 C) 2 and 3 only
 D) 1 and 2 only
3. Consider the following statements;

1. It is a large pale water bird declared Threatened species by IUCN.
2. They live in lowland fresh water, brackish and marine wetlands.
3. Nematode Infestation is one of the major threats to this species.

The above statements refer to

- A) Flamingo
 B) Painted stork
 C) Spot bellied Pelican
 D) Asian Openbill

7. Consider the following statements regarding the 'Global Compact for Migration' (GCM);
1. The Global Compact for Migration is the first-ever UN global agreement on a common approach to international migration in all its dimensions
 2. GCM is legally binding
 3. New York declaration is associated with GCM

The correct statement/s is/are,

- A) 1 only
B) 1 and 3 only
C) 2 and 3 only
D) 1, 2 and 3

8. Consider the following statement with regard to Semicon India 2022 conference;

1. The theme of the Semicon India conference is 'Catalyzing India's Semiconductor Ecosystem'.
2. It was organized by India Semiconductor Mission

The correct statement/s is/are,

- A) 1 only
B) Neither 1 nor 2
C) 2 only
D) 1 and 2

9. Consider the following statement regarding RoDTEP Scheme.

1. RoDTEP is a WTO compliant scheme, that replaced the Merchandise Exports from India Scheme (MEIS)
2. This scheme reimburses currently un-refunded Central, State, and Local taxes and duties

The Correct statement/s is/are

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

10. Which one of the following is not one of the functions performed by the Indian Computer Emergency Response Team (CERT-In)?

- A) Collection, analysis and dissemination of information on cyber incidents
- B) Forecast and alerts of cyber security incidents
- C) Coordinating with international private cyber agencies
- D) Emergency measures for handling cyber security incidents

11. Consider the following statement regarding 'Ways and means advances' (WMA)
1. It is a facility for both the Centre and States to borrow from the RBI
 2. These borrowings are meant purely to help them to tide over long-term mismatches in cash flows of their receipts and expenditures.
 3. The interest rate on WMA is the repo rate of the RBI

The Correct statement is/are

- A) 1 and 2 only B) 2 and 3 only
C) 3 and 1 only D) 1, 2 and 3

12. According to the 105th constitutional amendment, consider the following statements;

1. This amendment seeks to restore the power of state government to identify and specify Socially and Educationally backward classes
2. It allows states to maintain a separate 'state list' for SEBC reservation

The Correct statement/s is/are;

- A) 1 only B) 2 only
C) Both 1 and 2 D) Neither 1 nor 2

13. RUAV-200, a coaxial rotor helicopter drone, to be used as a Mule Drone for high altitude logistics operations by the Indian Army, is developed by Hindustan Aeronautics Limited, DRDO's ADE and an Indian Institute of Technology. Find the correct one below.

- A) IIT Bombay B) IIT Kanpur
C) IIT Delhi D) IIT Guwahati

14. With reference to SVAMITVA Scheme, consider the following statement:

1. It is launched by the Ministry of Housing and Urban Affairs.
2. It is a centrally sponsored scheme.
3. It aims to allow citizens to use their property as a financial asset for taking loans and other financial benefits.

Which of the statements given above is/are correct?

- A) 1 and 2 only B) 2 only
C) 2 and 3 only D) 3 only

19. **Assertion(A):** In Ashoka's time, Bherighosa was replaced with Dhammaghosha
Reason(R): After Ashoka acceded to the throne, Ashoka fought a major war called the Kalinga War.

Choose the correct one

- A) Both A and R are true, R is the correct explanation of A
 B) Both A and R are true, R is not the correct explanation of A
 C) A is true but R is false
 D) A is false but R is true

20. Match the following:

- | | | |
|-------------------|---|---|
| 1. Vellanvagai | - | (a) Land gifted to temples |
| 2. Shalabhoga | - | (b) land gifts to non-brahmana peasants |
| 3. Devadatta | - | (c) land gifted to Jaina institutions |
| 4. Pallichchandam | - | (d) land gifted to schools |

Correct match is

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

21. In the entire history of the Delhi sultanate, there was only one Sultan who voluntarily abdicated his throne and moved to a small town away from Delhi Which one of the following personalities is related to this context?

- A) Bahlul Lodi of the Lodi dynasty
 B) Alam shah of the Sayyid dynasty
 C) Nasir-ud-din Muhammad Shah of the Thuglaq dynasty
 D) Nasir al din Mahamud II of Mamluk dynasty

22. Consider the following statements regarding Kushanas;

1. The founder of the Kushana dynasty was Kadphises I
2. The Kushanas were a branch of the Yuchi Tribe
3. They issued gold coins with the title of "Lord of the whole world"

The correct statement/s is/are

- A) 1 and 2 only
 B) 2 and 3 only
 C) 1 and 3 only
 D) 1, 2 and 3

28. The early medieval Saint Basavanna belonged to:

- A) Vaisnava Tradition
- B) Saiva Tradition
- C) Virasaiva Tradition
- D) None of the above

29. The idea of Swadeshi and the boycott of foreign goods spread all over the country. In this context consider the following statements;

1. The Indian National Congress took up the Swadeshi call-in Banaras session which was presided by Surendranath Banerjee.
2. The movement was presided over in Bengal by Syed Haider Raza.

The correct statement/s is/are

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

30. Which of the following statement is true with respect to Lex Loci Act, 1850?

- A) It was to protect British Indigo planters
- B) It was to protect the interest of British capitalists
- C) Provided right to inherit properties to Hindu converts to Christianity
- D) Imposed the condition on Indian soldiers to serve outside India

31. Match List – I and List - II and select the correct answer:

List – I

(Ancient Sites)

- a. Lothal
- b. Kalibanga
- c. Dohlavira
- d. Mohenjodaro

List – II

(Archaeological Finding)

1. Ploughed Field
2. Dockyard
3. The Dancing Girl
4. An inscription comprising ten large sized signs of the Harrappan script

Codes:

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

32. Consider the statements below:

1. Arthasashtra by Kautilya is a major source for the study of Mauryan Age
2. The information given in Indica by Megasthenes is supplemented with Arthashastra
3. The Arthashastra does not contain any references to the Maurya's, their empire, Chandragupta, or Pataliputra

Which of the above statements/statement is/are correct?

- A) 1, 2 and 3
- B) 1 and 2
- C) 2 and 3
- D) 2 only

33. What set of three texts did Shankaracharya called Prasthanatrayi?

- A) Vedas, Upanishads and Bhagavadgita
- B) Mahabharata, Brahmanas and Upanishads
- C) Upanishads, Bhagavadgita and Brahmasutras
- D) Vedas, Ramayana and Upanishads

34. Consider the following statements about 'the Charter Act of 1813':

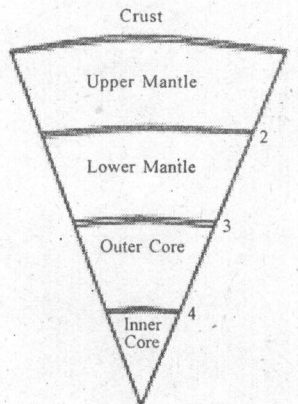
1. It ended the trade monopoly of the East India Company in India except for trade in tea and trade with China.
2. It asserted the sovereignty of the British Crown over the Indian territories held by the Company.
3. Christian Missionaries were allowed to enter in India

Which of the statements given above are correct?

- A) 1 and 2 only
- B) 2 and 3 only
- C) 1 and 3 only
- D) 1, 2 and 3

35. Match the following discontinuities with the section of the Earth:

- a) Mohorovicic discontinuity b) Repatte discontinuity
c) Lehmean discontinuity d) Weichert- Gutenberg discontinuity

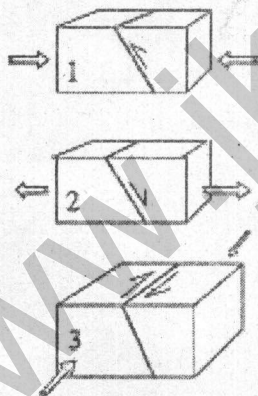


The correct match is

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

36. Identify the correct match.

- a) Reverse fault
b) Normal fault
c) Strick slip fault



The correct match is

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

37. Consider the following statements:

Assertion (A) : The period 1550 to 1800 has been called '*the Little Ice Age*'.

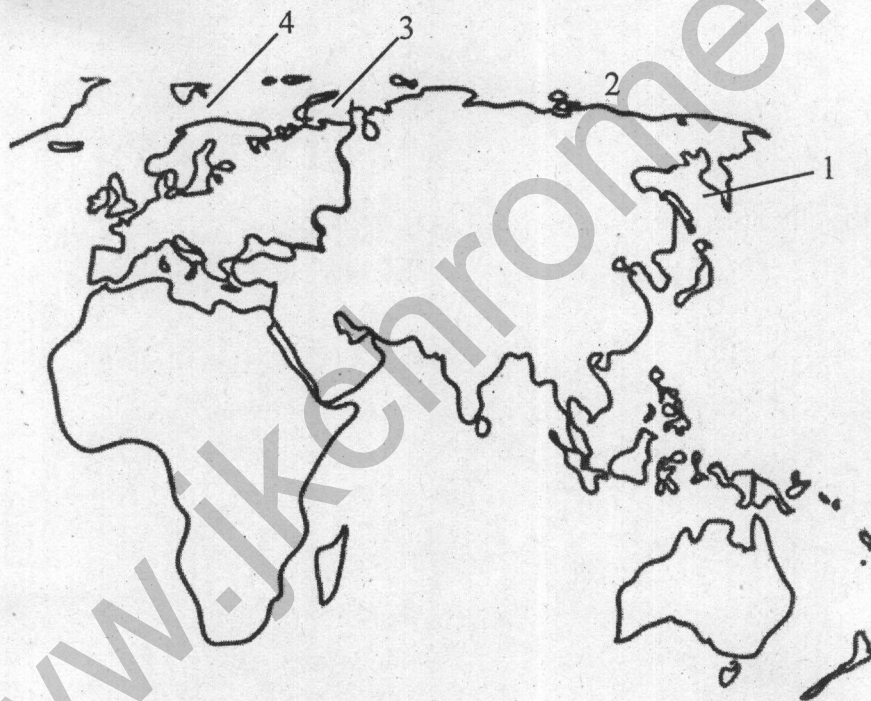
Reason (R): The glaciers of the mountains of Europe reached their most advanced positions since the beginning of the postglacial epoch.

The correct answer is

- A) A and R are both correct and R is the correct explanation of A
- B) A and R are both correct and R is NOT the correct explanation of A
- C) A is correct, but R is NOT correct
- D) A is NOT correct, but R is correct

38. Identify the following marginal seas marked as 1,2,3 and 4 on the given map.

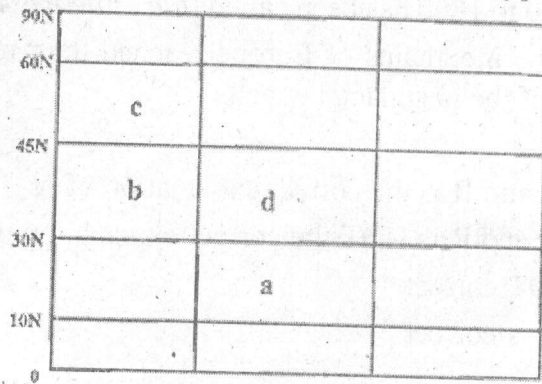
- a) Kara sea
- b) Barents sea
- c) Laptev sea
- d) Sea of Okhotsk



The correct match is

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

39. Identify the location of climates marked on a hypothetical continent;



- | | |
|--------------------------|--------------------|
| 1. Savanna climate | 2. Steppe climate |
| 3. Mediterranean climate | 4. British climate |

The correct match is

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

40. Identify the climatic regions of India given by Koppen.

1. Amw 2. As 3. Aw 4. BSh



The correct match is

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

41. Vertically arrange the photic layers of the ocean.

- i. Hadopelagic
- ii. Mesopelagic
- iii. Bathypelagic
- iv. Epipelagic

- A) (iv), (ii), (iii), (i) B) (i), (ii), (iv), (iii)
C) (iv), (iii), (ii), (i) D) (i), (ii), (iii), (iv)

42. Which of the following weather phenomenon/s is/are has/have the calm low pressure at the centre and cylindrical cloud with heavy rain around it?

1. Hurricane
2. Typhoon
3. Cyclone
4. Anti-cyclone

The correct answer is/are

- A) 3 only B) 1, 2 and 3 only
C) 1, 2 and 4 only D) 1 and 3 only

43. Consider the following statements;

1. The texture of soil refers to the sizes of the solid particles composing the soil.
2. Loam is a soil in which no one grade dominates.
3. The Colour of the soil is determined with the aid of a Munsell colour chart.

The correct answer is

- A) 1 and 2 B) 1 and 3
C) 2 only D) 1, 2 and 3

44. Consider the following statements;

Assertion (A) : Sea snot is a slimy layer of grey or green sludge that the floats up on the surface of the seas, which can cause damage to the marine ecosystem.

Reason (R) : The nutrient overload occurs when algae feast on warm weather caused by global warming.

Choose the correct one

- A) Both A and R are true, R is the correct explanation of A
B) Both A and R are true, R is not the correct explanation of A
C) A is true but R is false
D) A is false but R is true

45. Which of the following statement is not correct as per IPCC latest report-
- The rate of global GHG emissions growth has slowed in recent years, from 2.1% per year between 2000 and 2009, to 1.3% per year in between 2010 and 2019.
 - Lockdown policies in response to COVID-19 led to an estimated global drop of 5.8% in CO₂ emissions in 2020 relative to 2019.
 - There has been a significant global transition from coal and biomass use in buildings towards modern energy carriers and efficient conversion technologies.
 - Average annual growth in GHG emissions from energy supply increased from 2.3% for 2000–2009 to 3.1% for 2010–2019.

46. Match the following List -I with List-II and select the correct answer from the code given below:-

List - I	List - II
(a) Khunjerab	(i) Arunachal Pradesh with Myanmar
(b) Lanak La	(ii) Ladakh with Lhasa
(c) Lekhapani	(iii) Uttarakhand with Tibet
(d) Lipulekh	(iv) Ladakh with Sinkiang

Code:

- | | a | b | c | d |
|----|------|-------|-------|-------|
| A) | (iv) | (iii) | (i) | (ii) |
| B) | (iv) | (ii) | (i) | (iii) |
| C) | (ii) | (i) | (iii) | (iv) |
| D) | (i) | (ii) | (iii) | (iv) |

47. Arrange the main peaks of Western ghats on the basis of their higher elevation to lower elevation.

I. Doddabetta	II. Ooty
III. Anaimudi	IV. Puspagiri
A) III, II, I, IV	B) III, I, II, IV
C) I, II, III, IV	D) IV, III, II, I

48. If the time at Greenwich meridian is 12:00 AM (Midnight), what would be the time at 30°W meridian.

- | | |
|-------------|-------------|
| A) 8:30 PM | B) 10:00 PM |
| C) 10:30 PM | D) 2:00 AM |

49. The correct sequence of the following seas from East to West is:-

- Caspian Sea, Aral Sea, Black Sea, Mediterranean Sea
- Aral Sea, Caspian Sea, Black Sea, Mediterranean Sea
- Black Sea, Mediterranean Sea, Aral Sea, Caspian Sea
- Mediterranean Sea, Black Sea, Caspian Sea, Aral Sea

50. Arrange the following officials based on the Order of Precedence.

1. Chief Election Commissioner
2. Holders of Bharat Ratna decoration.
3. Attorney General
4. Chief of Staff holding rank of General.

The correct order is

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

51. Identify the correct match of the Indian parliamentary closure motions and their definitions.

1. Simple Closure-It is one when a member moves that the 'matter has been sufficiently discussed and be now put to vote.
2. Closure by Compartments-Only important clauses are taken up for debate and voting and the intervening clauses are skipped over and taken as passed.
3. Kangaroo Closure- In this case, the clauses of a bill or a lengthy resolution are grouped into parts before the commencement of the debate. The debate covers the part as a whole and the entire part is put to vote.
4. Guillotine Closure- It is one when the undiscussed clauses of a bill or a resolution are also put to vote along with the discussed ones due to want of time.

How many statements given above is/are correct?

- | | |
|--------------------------|-------------------------|
| A) Only one statement | B) Only two statements |
| C) Only three statements | D) Only four statements |

52. Consider the following statements regarding CJI;

1. The Union Minister of Law, Justice and Company Affairs would, at the appropriate time, seek the recommendation of the outgoing Chief Justice of India for the appointment of the next Chief Justice of India.
2. Whenever there is any doubt about the fitness of the senior most Judge to hold the office of the Chief Justice of India, consultation with other Judges as envisaged in Article 124 (2) of the Constitution would be made for the appointment of the next Chief Justice of India.
3. After receipt of the recommendation of the Chief Justice of India, the Union Minister of Law, Justice and Company Affairs will put up the recommendation to the President in the matter of appointment.

The correct statement/s is/are

- | | |
|---------------|------------|
| A) 1, 2 and 3 | B) 2 and 3 |
| C) 1 only | D) 1 and 2 |

57. Which of the following DO NOT participate in the process of election of President of India?

1. Nominated members of both houses of Parliament
2. Nominated members of Legislative assemblies
3. Elected members of legislative councils.
4. Elected members of UT legislative assemblies.

How many statements given above is/are correct?

- A) Only one statement
- B) Only two statements
- C) Only three statements
- D) All the four statements

58. Consider the following statements;

Assertion (A): Altruistic surrogacy involves no monetary compensation to the surrogate mother.

Reason (R): Only medical expenses and insurance coverage during the pregnancy are given.

Choose the correct one

- A) Both A and R are true, R is the correct explanation of A
- B) Both A and R are true, R is not the correct explanation of A
- C) A is true but R is false
- D) A is false but R is true

59. Consider the following statements;

1. The constitution of India doesn't declare the location of the seat of the Supreme Court
2. CJI can appoint other places as the seat of the Supreme Court only after the approval of the President.
3. The President of India can order the Supreme Court to change its seat of location.

The correct statement/s is/are

- A) 1, 2 and 3
- B) 1 and 3
- C) 2 only
- D) 1 and 2

60. Identify the correct match;

Person	Oath or affirmation before
1. CJI	- President
2. Judges of Supreme Court	- CJI
3. Speaker of Lok Sabha	- President
4. Attorney General	- CJI

How many statements given above is/are correct?

- A) Only one statement
- B) Only two statements
- C) Only three statements
- D) All the four statements

61. Consider the following statements;

- 1. The word '*cabinet*' was not a part of the original constitution, it was added in 1978 by the 44th constitutional amendment act.
- 2. '*Ministers*' as a member of the council of ministers, but does not include deputy ministers.

The correct statement/s is/are;

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

62. The theory of Separation of powers was advocated by which of the following political and constitutional philosopher

- A) Hobbes
- B) Montesquieu
- C) Locks
- D) Mussolini

63. Consider the following statements;

Assertion (A): Sunset clause in legislation is one which provides that after a particular date it ceases to exist.

Reason (R): Sunset clause is a provision to avoid stagnation in the legislative process by removing unwanted laws of the time.

Choose the correct one

- A) Both A and R are true, R is the correct explanation of A
- B) Both A and R are true, R is not the correct explanation of A
- C) A is true but R is false
- D) A is false but R is true

64. Match the following Schedules and subjects they deal with;

- 1. Schedule 3 - Oath and affirmation
- 2. Schedule 4 - Seats allotted to Rajya Sabha
- 3. Schedule 5 - Division of Powers
- 4. Schedule 8 - Languages

How many pairs given above is/are correctly matched?

- A) Only one pair
- B) Only two pair
- C) Only three pair
- D) All the four pair

65. Which among the following statement(s) is/are true with respect to the Indian economy?

- 1. Demonetisation is the act of stripping money of its legal tender status.
- 2. An increase in the Cash Reserve Ratio by the Reserve Bank of India increases the money multiplication in the market.
- 3. Haircut reflects the borrower's perception of the risk of falls in the value of assets.

Select the correct option using the code given below:

- A) 1 and 2 only
- B) 2 and 3 only
- C) 1 and 3 only
- D) 1 only

66. Consider the following statements;

Assertion(A): Additional Tier - 1 (AT1) bonds are used by banks to augment their core equity base and thus comply with Basel - III norms.

Reason(R): Additional Tier - 1 bonds are long-term bonds

Choose the correct one

- A) Both A and R are true, R is the correct explanation of A
- B) Both A and R are true, R is not the correct explanation of A
- C) A is true but R is false
- D) A is false but R is true

67. In India, the Broad Money (M3), measures money supply as the sum of

- A) Currency with the public + Demand Deposits with banks + Other Deposits with RBI
- B) Currency with the public + Demand Deposits with banks + Other Deposits with RBI + Time Deposits with banks
- C) Demand Deposits with banks + Other Deposits with RBI + Saving Deposits with post office + Currency with the public
- D) Currency with the public + Demand Deposits with banks + Other Deposits with RBI + Total post office deposits

68. Which of the following could be said to have prevented 'trickle-down effects' in the Indian economy?

1. Increased dependence of agriculture on purchased input and privately managed irrigation.
2. More employment of labour by larger landholding farmers
3. Lower participation of women in the agricultural workforce due to new technology
4. The failure of the Green Revolution

The answer is

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

69. Which among the following statement are correct regarding the share market operations?

1. Bear is a person who speculates share prices to fall in future and so sells his shares and earns a profit.
2. Bull is a person who speculates share prices to go up in future so either stops selling selected shares for a time period.
3. A Bull increases the number of shares in a stock market.
4. A Bear creates a scarcity of shares in the stock market.

The correct statements are;

- | | |
|--------------|----------------|
| A) 1 and 2 | B) 1,2 and 3 |
| C) 1,3 and 4 | D) 1,2,3 and 4 |

70. Consider the following statements regarding Prompt Corrective Action (PCA) of Reserve Bank of India.

1. It aims to monitor the operation of weaker banks more closely to encourage them to conserve capital and avoid risks.
2. It imposes certain restrictions on dividend distribution and expansion of branches by banks that are financially weak.

Which of the above statements is/are incorrect?

- | | |
|-----------------|--------------------|
| A) 1 only | B) 2 only |
| C) Both 1 and 2 | D) Neither 1 nor 2 |

71. Consider the following statements regarding Sovereign Bonds.

1. A sovereign bond is a specific debt instrument issued by the government in both foreign and domestic currency.
2. The yield of the sovereign bond is the interest rate that the government pays on issuing bonds.
3. The central banks also control the supply of money within the economy by the use of these bonds.

Which of the above statements is/are correct?

- | | |
|------------|---------------|
| A) 1 and 2 | B) 1 and 3 |
| C) 2 and 3 | D) 1, 2 and 3 |

75. Which of the following bacterium is called the superbug that is used for oil degradation?
- A) *Staphylococcus aureus*
 - B) *Streptococcus pyrogenes*
 - C) *Pseudomonas putida*
 - D) *Bacillus subtilis*
76. Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R)
- Assertion (A): Small animals have a larger surface area relative to their volume.
Reason (R): They lose body heat when it's cold outside
- Choose the correct answer:
- A) Both (A) and (R) are true, (R) is the correct explanation of (A)
 - B) Both (A) and (R) are true, (R) is not the correct explanation of (A)
 - C) (A) is true but (R) is false
 - D) (A) is false but (R) is true
77. The equation $dN/dt = rN$ describes _____ pattern of population
- A) Exponential growth
 - B) Hyperbolic growth
 - C) Logistic growth
 - D) Rectangular growth
78. Which of the statement is true?
- A) Benthic refers to the floor of the sea and benthos refers to plants and animals that live there.
 - B) Benthos refers to the floor of the sea and benthic refers to plants and animals that live there.
 - C) Benthos refers to the flora of the sea and benthic refers to animals that live there.
 - D) Benthos and benthic both refer to animals that live there.
79. Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R)
- Assertion (A): The solar radiation from the sun is balanced by the thermal radiations reflecting from the earth. The incoming solar radiation from the sun is independent.
Reason (R): The outgoing thermal radiation depends on the earth's surface temperature and the presence of greenhouse gases, which absorbs some of the thermal radiation.
- Choose the correct answer:
- A) Both (A) and (R) are true, (R) is the correct explanation of (A)
 - B) Both (A) and (R) are true, (R) is not the correct explanation of (A)
 - C) (A) is true but (R) is false
 - D) (A) is false but (R) is true

80. The processes of permafrost, glaciations, defrosting and de-glaciations are known as
- A) Ardent processes
 - B) Searing processes
 - C) Warming processes
 - D) Cryogenic processes
81. A coalition of 50+ companies worldwide seeking to send a powerful market signal to commercialize zero-carbon technologies is named as
- A) First Movers Coalition
 - B) Global Initiative of Companies for Zero Carbon
 - C) World Environmental forum
 - D) Global Environmental forum
82. Lichen is an example of
- A) Mutualism
 - B) Commensalism
 - C) Amensalism
 - D) Parasitism
83. Pollination by butterflies is called
- A) Ornithophily
 - B) Elelophily
 - C) Myrmecophily
 - D) Psychophily
84. Bacteria which help in the denitrification process is
- A) Nitrosomonas
 - B) Nitrobacter
 - C) Pseudomonas
 - D) Rhizobium

85. Consider the following pairs

<u>Diseases</u>		<u>Microbes</u>
1. Mucormycosis	-	Fungus
2. Tuberculosis	-	Bacteria
3. Monkeypox	-	DNA virus
4. Malaria	-	RNA virus

The correct match/s is/are;

- A) Only one pair matches B) Only two pairs match
C) Only three pairs match D) All pairs match

86. Consider the following pairs

<u>Vaccine</u>		<u>Types</u>
1. Zycov-D	-	DNA vaccine
2. Sputnik	-	Vector-based vaccine
3. Moderna	-	mRNA vaccine
4. Covaxin	-	live-attenuated vaccine

The correct match/s is/are;

- A) Only one pair matches B) Only two pairs match
C) Only three pairs match D) All pairs match

87. Consider the difference between Augmented reality and Virtual reality.

1. Augmented reality refers to a digitally simulated experience that can either mimic reality or create a unique version of reality.
2. Virtual reality brings digital elements into the real world through reality glasses or any number of other digital devices.

Which of the given statements are correct?

- A) 1 only B) 2 only
C) Both 1 and 2 D) Neither 1 nor 2

96. Choose the correct statement.

Why does an apple turn orange when kept in the air atmosphere?

1. Apple contains tannins which act as *astringent agents*.
2. Apple cannot contain tannins due to the presence of *Betacyanins*
3. Apple turns brown because of *Phenolics agents*.
4. Apple does not change its color in the air atmosphere.

How many statements given above is/are correct?

- A) Only one statement B) Only two statements
C) Only three statements D) All the four statements

97. Consider the following statements;

Assertion (A): The GSAT-24 satellite was launched on the French rocket Ariane-5.

Reason(R): Currently India does not have a space-launch rocket that can lift a satellite weighing over 4 tons into geostationary orbit.

Choose the correct one

- A) Both A and R are true, R is the correct explanation of A
B) Both A and R are true, R is not the correct explanation of A
C) A is true but R is false
D) A is false but R is true

98. Which of the following quantity remains constant when an artificial Satellite revolves round the Earth in circular orbit?

- A) Linear Velocity B) Angular Frequency
C) Angular Momentum D) Angular Displacement

99. A 'breath test' used by traffic police to check drunken driving uses _____

- A) Potassium dichromate-sulphuric acid
B) Turmeric on filter paper
C) Silica gel coated with silver nitrate
D) Potassium permanganate-sulphuric acid

100. Which one of the following processes is used for aluminum extraction?

- A) Hall-Heroult process B) Calcination
C) Leaching D) Van-Arkel method

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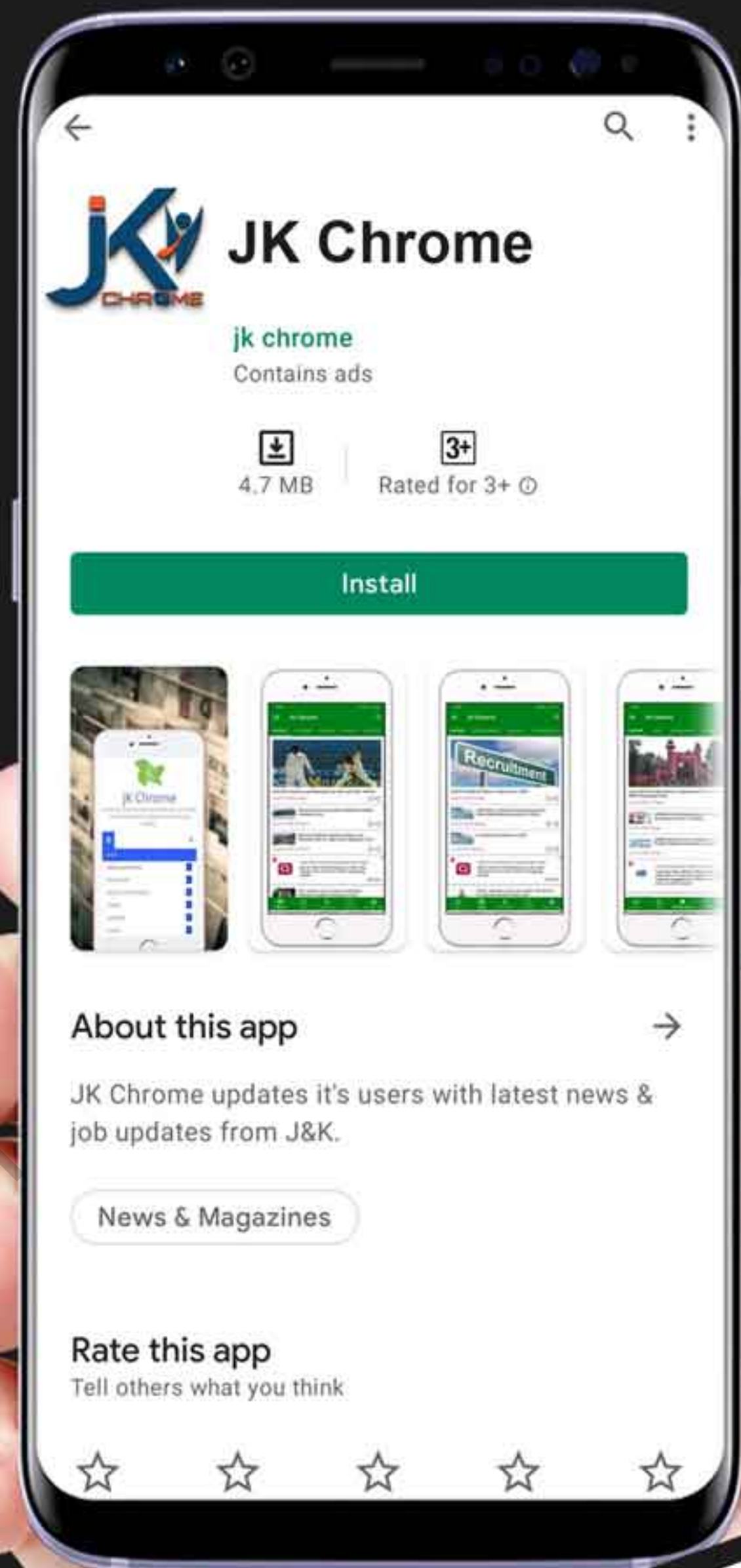
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