



# HYDERALI SHIHAB THANGAL ACADEMY FOR CIVIL SERVICES

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## PAPER - 01

Test ID: 111

KREA IAS PCM ENTRANCE EXAM - 2024-25

Test Booklet

Time Allotted- 2 hrs

Maximum marks 200

### INSTRUCTIONS

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KREA- An Edu Project by Najeeb Kanthapuram MLA

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**1. Which of the following descriptions best describes the term "sovereignty"?**

- (a) The authority of a state to govern itself independently
- (b) The power of the judiciary to interpret and enforce laws
- (c) The ability of citizens to vote in free and fair elections
- (d) The economic stability of a nation's currency

**2. Consider the following statements with reference to the post of governor:**

- 1. The Governor acts as the head of the state government.
- 2. Governor in a state is elected by the elected members of state legislative assembly

**Which of the above given statements is/are correct?**

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**3. Which of the following constitutional amendment act (CAA) has provided for women reservation in parliament and state legislatures?**

- (a) 103rd CAA      (b) 100th CAA
- (c) 101st CAA      (d) 106th CAA

**4. Which of the following is Not a constitutional body?**

- (a) National Commission for Women
- (b) Finance Commission
- (c) National Commission for Backward Classes
- (d) National Commission for Scheduled Castes

**5. With reference to Fundamental Rights as enshrined in the Indian Constitution, consider the following statements:**

- 1. Fundamental Rights are available only to the citizens of India.

- 2. Fundamental Rights were not originally part of the Indian Constitution.
- 3. Both Parliament and State legislatures can amend Fundamental Rights.

**Which of the statements given above is/are incorrect?**

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

**6. The 42nd Amendment of the Constitution is also known as mini constitution due to the vast number of changes introduced. Who was the Prime Minister of India when the 42nd Constitutional Amendment act was passed?**

- (a) Indira Gandhi      (b) Charan Singh
- (c) Morarji Desai      (d) Atal Bihari Vajpeyi

**7. Which of the following words has not been mentioned in the Preamble of Indian Constitution?**

- (a) Integrity      (b) Republic
- (c) Secular      (d) Federal

**8. Which of the following writs is not specifically provided under Article-32 of the Constitution of India**

- (a) Mandamus      (b) Certiorari
- (c) Quo Warranto      (d) Injunction

**9. Concept of Fundamental Duty as enshrined in the Constitution of India was inspired from the constitution of which country?**

- (a) United States      (b) USSR
- (c) Great Britain      (d) Australia

**10. Consider the following statements:**

**Statement-I: India has an integrated judicial system.**

**Statement-II: In India's judicial system, the decisions made by the higher courts are binding on the lower courts.**

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct.

**11. Which of the following is not a scheduled language under the constitution of India?**

- (a) English (b) Malayalam  
(c) Sanskrit (d) Nepali

**12. Consider the following rivers of India:**

1. Cauvery 2. Vaigai  
3. Mahanadi 4. Krishna

**What is the correct order of the above rivers as one travels from north to south directions?**

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

**13. With reference to the Solar system, consider the following statements:**

1. Mercury is the closest planet to the Sun  
2. The asteroid belt is situated between Mars and Jupiter.

**Which of the above given statements is/are correct?**

- (a) 1 Only  
(b) 2 Only  
(c) Both 1 and 2  
(d) Neither 1 nor 2

**14. Consider the following statements: As we go from Equator towards Poles on Earth:**

1. the distance between latitudes increases.  
2. the distance between longitudes decreases.

**Which of the above given statements is/are correct?**

- (a) 1 only  
(b) 2 only  
(c) Both 1 and 2  
(d) Neither 1 nor 2

**15. Consider the following locations and events happened recently:**

Location	Events
1. Derna	Dam failure
2. Casablanca	Earthquake
3. Reykjavik	Volcanic eruption

**How many of the above are correctly matched?**

- (a) Only one (b) Only two  
(c) All three (d) None

**16. Which scale is commonly used to measure the intensity of an earthquake?**

- (a) Richter scale  
(b) Saffir-Simpson scale  
(c) Fujita scale  
(d) Mercalli scale

**17. Which of the following statements concerning the atmosphere of the Earth are correct?**

1. In the stratosphere, temperature increases with altitude.  
2. In the troposphere, temperature decreases with altitude.  
3. Tropopause is an isothermal zone.

**Which of the statements given above are correct?**

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

**18. Which of the following crops are considered Rabi crops?**

1. Rice 2. Soyabean  
3. Wheat 4. Mustard  
5. Barley

**Select the correct answer using the code given below**

- (a) 1 and 3 only (b) 2 and 4 only  
(c) 3 and 5 only (d) 3, 4 and 5 only

**19. Consider the following ocean currents:**

1. Labrador 2. Brazilian  
3. Peruvian 4. North Atlantic Drift  
5. Canaries

**How many of the above are cold ocean currents?**

- (a) Only two (b) Only three  
(c) Only four (d) All five

**20. Consider the following rivers**

1. Sabarmati 2. Mahi  
3. Indus 4. Narmada  
5. Godavari

**How many of the rivers given above flow into the Arabian Sea?**

- (a) Only two (b) Only three  
(c) Only four (d) All five

**21. Which two bodies of water are connected by the Kra Isthmus?**

- (a) Andaman Sea and Gulf of Thailand  
(b) The Red Sea and the Arabian Sea  
(c) The Persian Gulf and the Arabian Sea  
(d) The Caspian Sea and the Persian Gul

22. "This type of soil is formed by the deposition of sediments by rivers, is highly fertile, and is commonly found in river valleys and deltas. It is rich in nutrients like potash and lime, making it ideal for agriculture".

Which type of soil is described here?

- (a) Laterite soil (b) Alluvial soil  
(c) Sandy soil (d) Volcanic soil

23. Consider the following parameters:

1. Gross Domestic Product (GDP) of the nation
2. Life expectancy at birth
3. Average years of schooling
4. Population density of the country

How many of the above parameters are used in the calculation of the Human Development Index of a nation released by the United Nations Development Programme (UNDP)?

- (a) Only one (b) Only two  
(c) Only three (d) All four

24. In the context of the urban development process, which of the following statements best describes the term 'Gentrification'?

- (a) The physical separation of different social groups within a city, often based on income, race, or ethnicity.
- (b) The population shifts from high density urban centres to lower density residential areas on the outskirts.
- (c) The process of wealthy individuals moving into a lower-income neighbourhood, leading to economic and social changes.
- (d) The process of building housing, businesses, and urban amenities near public transport to encourage its use and reduce car dependence.

25. In the context of the Indian economy, the Labour Force Participation Rate (LFPR) refers to:

- (a) the section of the working age population who are engaged in employment.
- (b) the share of employed individuals in the total population of the country.
- (c) the section of the working-age population currently employed or seeking employment.
- (d) the section of the total population who are currently employed or seeking employment.

26. Which of the following are limitations of using Gross Domestic Product (GDP) as a measure of the overall well-being of a nation's population?

1. It ignores income inequality.
2. It fails to consider technological advancements.
3. It excludes non-market activities.
4. It omits externalities resulting from economic activities.

Select the correct answer from the options given below:

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

27. Consider the following crops:

- |             |           |
|-------------|-----------|
| 1. Paddy    | 2. Wheat  |
| 3. Arecanut | 4. Coffee |
| 5. Tea      | 6. Cotton |

How many of the above crops have been covered under the Minimum Support Price (MSP) regime?

- (a) Only three (b) Only four  
(c) Only five (d) All six

28. Which of the following is NOT a component of the Indian government's fiscal policy?

- (a) Taxation  
(b) Public expenditure  
(c) Interest rate adjustments  
(d) Public debt management

29. Which of the following is not an indirect tax?

- (a) Goods and service tax  
(b) Personal Income tax  
(c) Sales tax  
(d) Value added tax

**30. Which Indian state is the leading producer of wheat?**

- (a) Uttar Pradesh
- (b) Madhya Pradesh
- (c) Punjab
- (d) Haryana

**31. The term “Twin Balance Sheet Problem” in the context of the Indian economy refers to:**

- (a) High levels of non-performing assets in banks and over-leveraged corporate balance sheets
- (b) High fiscal deficit and trade deficit
- (c) High inflation and unemployment
- (d) High levels of foreign debt and low foreign reserves

**32. The term “Demographic Dividend” in the context of the Indian economy refers to:**

- (a) The economic benefits arising from an increase in the working-age population
- (b) The financial gains from demographic research
- (c) The profits earned by demographic companies
- (d) The economic impact of an ageing population

**33. The term “Balance of Payments” refers to:**

- (a) The difference between a country's exports and imports
- (b) The record of all economic transactions between residents of a country and the rest of the world
- (c) The amount of money a country owes to international creditors
- (d) The total value of goods and services produced in a country

**34. What is the key focus of the Atal Innovation Mission (AIM)?**

- (a) Promoting traditional crafts
- (b) Encouraging innovation and entrepreneurship
- (c) Enhancing agricultural productivity
- (d) Improving public health

**35. The term “Inclusive Growth” best refers to:**

- (a) Economic growth that focus on the welfare of rural population
- (b) Growth that includes significant contributions from foreign direct investment
- (c) Economic growth that is distributed fairly across society and creates opportunities for all
- (d) Growth that focuses exclusively on the technology sector

**36. Which of the following is not a cryptocurrency?**

- (a) Bitcoin
- (b) Ethereum
- (c) Litecoin
- (d) PayPal

**37. With reference to 'Hydrogen fuel cell', which of the following statements best describes the process involved in the cell?**

- (a) Heat energy transfers into electric energy.
- (b) Heat energy transfers into chemical energy.
- (c) Electric energy transfers into Chemical energy.
- (d) Chemical energy transfers into electric energy.

**38. Consider the following:**

1. Rapid prototyping in product development
2. Customised medical implants and prosthetics
3. Architectural models and scale prototypes
4. Automotive parts manufacturing

**Which of the above given is/are applications of 3D printing?**

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

**39. Which of the following statements about CRISPR-Cas9 is correct?**

- (a) CRISPR-Cas9 is a genome editing tool derived from a bacterial defence mechanism.
- (b) CRISPR-Cas9 is a type of antibiotic used to treat bacterial infections.
- (c) CRISPR-Cas9 is exclusively used for protein synthesis in eukaryotic cells.
- (d) CRISPR-Cas9 is a virus that is capable of infecting bacteria.

**40. Which of the following diseases are caused by viruses?**

1. Cholera
2. Chicken pox
3. Typhoid
4. Ebola
5. SARS

- (a) 1 and 3 only      (b) 1,2 and 3 only  
(c) 1,3 and 4 only      (d) 2,4 and 5 only

**41. Consider the following pairs:**

Vitamin	Deficiency disease
1. Vitamin C	Scurvy
2. Vitamin D	Rickets
3. Vitamin E	Night blindness

**Which of the pairs given above is/are correctly matched?**

- (a) 1 and 2 only      (b) 3 only  
(c) 1, 2 and 3      (d) None

**42. In the context of computer technology, the term "Cache" refers to:**

- (a) a malware designed to steal computer data without the user's knowledge.  
(b) a web-based network protocol for establishing secure communication.  
(c) a temporary storage mechanism facilitating faster access to data.  
(d) an error in the source code that causes the program to produce unexpected results.

**43. Consider the following statements about light waves:**

1. Light waves travels faster than sound wave
2. The speed of light in vacuum is constant.
3. Light wave is a type of transverse wave.

**Which of the above given statements is/are correct?**

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

**44. In the context of "Generative AI", consider the following activities:**

1. It can solve complex mathematical problems.
2. Creation of images from the text.
3. Medical diagnosis of diseases.
4. It can be used in coding.
5. Generation of new sound effects

**With the present state of development 'Generative AI' can perform how many of the above activities?**

- (a) Only two      (b) Only three  
(c) Only four      (d) All five

**45. In which of the following scenarios can satellite images or remote sensing data be utilised for measurement or estimation?**

1. Soil moisture levels in agricultural fields
2. Traffic congestion on urban roads
3. Population density in a city

**Select the correct option from the code given below:**

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

**46. What is "Sagittarius A\*" that has been in the news recently?**

- (a) Nearest solar system to our solar system  
(b) A supermassive compact object at the centre of Milky Way  
(c) Nearest star to Sun  
(d) An asteroid heading towards Earth's vicinity

**47. Which of the following is not a mission by ISRO?**

- (a) ADITYA L1  
(b) OSIRIS-Rex  
(c) Mars Orbiter Mission  
(d) XPoSAT

**48. Which of the following best describe the term "symbiotic association" in the context of interaction between different species?**

- (a) A relationship where one organism benefits while the other is unaffected  
(b) A relationship where both organisms benefit  
(c) A relationship where one organism benefits at the expense of the other  
(d) A relationship where organisms compete for resources

**49. Currently, which Indian state has the largest area under forest cover?**

- (a) Rajasthan      (b) Uttar Pradesh  
(c) Madhya Pradesh      (d) Arunachal Pradesh

**50. Which of the following acts provide for the establishment of National tiger conservation authority?**

- (a) Wildlife (Protection) Act, 1972
- (b) Environment Protection Act 1986
- (c) Forests Conservation Act, 1980
- (d) Indian Forest Act, 1927

**51. Which state in India has officially recognised 'Papilio Buddha' as state butterfly?**

- (a) Tamil Nadu (b) Kerala
- (c) Maharashtra (d) Arunachal Pradesh

**52. Which of the following are considered to be greenhouse gases?**

- 1. Carbon monoxide 2. Carbon Dioxide
- 3. Methane 4. Water vapour
- 5. Nitrogen

**Select the correct code from the given below options**

- (a) 1 and 2 only (b) 2,3 and 4 only
- (c) 1 and 5 only (d) All of these

**53. Which one of the following best describes the term "arctic amplification"?**

- (a) The process by which Arctic species adapt to changing environmental conditions
- (b) The accelerated warming of the Arctic region compared to the rest of the planet
- (c) The expansion of Arctic Sea ice due to decreasing global temperatures
- (d) The migration of tropical species to the Arctic region

**54. Which of the following countries hosted the UNFCCC COP 28 in 2023?**

- (a) UAE (b) EGYPT
- (c) USA (d) INDIA

**55. Which of the following is NOT a commitment under India's panchamrit at UNFCCC**

- (a) By 2030, India will reduce its carbon emission by one billion tons.
- (b) By 2030, India will meet 50% of its total energy requirement with renewable energy.
- (c) By 2030, India will increase its non-fossil energy capacity to 500 gigawatts.

(d) By the year 2030, India will achieve the target of Net-Zero.

**56. Which of the following best describes the term "Algal bloom"?**

- (a) A phenomenon characterised by the rapid growth of algae, often leading to oxygen depletion and harmful environmental effects
- (b) A sudden increase in the population of fish in aquatic ecosystems
- (c) The release of toxic substances by aquatic plants, leading to water pollution
- (d) The formation of large icebergs in polar regions due to algal activity

**57. Which of the following is a Ramsar site declared recently?**

- (a) Thol lake (b) Pulicat lake
- (c) Akkulam lake (d) Dal lake

**58. The one-horned rhinoceros, also known as Indian rhinoceros, is known for its distinctive horn and robust build. This species is primarily found in:**

- (a) The Sundarbans mangrove forests
- (b) The Western Ghats rainforests
- (c) The grasslands of Kaziranga National Park
- (d) The deciduous forests of Jim Corbett National Park

**59. With reference to Indian elephants, consider the following statements:**

- 1. The leader of an elephant group is the oldest male.
- 2. Among the States in India, the highest elephant population is in Kerala.

**Which of the statements given above is/are correct?**

- (a) 1 only (b) 2 only
- (c) Both 1 and 2 (d) Neither 1 nor 2

**60. How many of the following have been recognised as a city of literature by UNESCO?**

- 1. Kozhikode 2. Kolkata
- 3. Chennai 4. Indore

**Select the correct answer from the code given below**

- (a) Only one (b) Only two
- (c) Only three (d) All four

**61. Consider the following art forms:**

- 1. Kathakali 2. Mudi yettu
- 3. Manipuri 4. Sattriya
- 5. Silambam

How many of the above are considered to be classical dances of India?

- (a) Only two (b) Only three  
(c) Only four (d) All five

62. Which of the following is the correct chronological order of Mughal emperors?

- (a) Akbar-Jahangir-Humayun-Shahjahan  
(b) Akbar-Humayun-Shahjahan-Jahangir  
(c) Humayun-Akbar-Shahjahan-Jahangir  
(d) Humayun-Akbar-Jahangir-Shahjahan

63. Consider the following pairs about the rulers of ancient India and their dynasty:

King	Dynasty
1. Kanishka	Kushana
2. Asoka	Gupta
3. Harsha vardhana	Mauya
4. Rudra Daman	Satavahana

How many pairs given above are correctly matched?

- (a) Only one (b) Only two  
(c) Only three (d) All four

64. With reference to ancient Indian history, the literary works Abhijnana Shakuntalam, Kumarasambhavam and Raghu vamsa were written by:

- (a) Kalidasa (b) Dandin  
(c) Banabhatta (d) Vishnu Sharma

65. With reference to mediaeval history of India, consider the following statements about Ibn Battuta:

1. He was a Moroccan traveller who visited India during the reign of Akbar.
2. He provided information about socio-cultural life of the subcontinent in his literary work "Rihla".

Which of the above given statements is/are correct?

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

66. "Vasudhaiva Kudumbamkam" was the theme of which initiative held in India in 2023?

- (a) BIMSTEC (b) SAARC  
(c) QUAD (d) G20

67. Consider the following Indus valley civilization (IVC) sites:

1. Mohenjo Daro
2. Harappa
3. Rakhigarhi
4. Lothal
5. Dholavira

How many of the sites given above are located in present day Indian territory?

- (a) Only two (b) Only three  
(c) Only four (d) All five

68. Which of the following is the correct sequence of European entry to India in the context of Modern Indian history?

- (a) British - Portuguese - Dutch - French  
(b) Portuguese - British - Dutch - French  
(c) Dutch - Portuguese - French - British  
(d) Portuguese - Dutch - British - French

69. With reference to modern Indian history, 'The black hole tragedy' was an incident related to which of the following battles?

- (a) Battle of Buxar  
(b) Anglo-Mysore war  
(c) Battle of Plassey  
(d) Anglo-Maratha war

70. With reference to Indian modern history, consider the following events:

1. Bengal partition
2. Congress formation
3. Khilafat movement
4. Arrival of Gandhi in India from South Africa

Arrange the above events in their correct chronological order:

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

71. Who among the following has never been president of Indian National Congress?

- (a) Mahatma Gandhi  
(b) Jawahar Lal Nehru  
(c) Sardar Vallabhai Patel  
(d) B R Ambedkar

72. In which of the following act, Dyarchy was introduced for the first time in India

- (a) India Councils Act 1861  
(b) India Councils Act 1909  
(c) Government of India Act 1919  
(d) Government of India Act 1935



73. The English Education Act 1835 was given effect during the reign of which governor general?

- (a) Lord Hastings
- (b) Lord William Bentick
- (c) Lord Mayo
- (d) Lord Dalhousie

74. Consider the following quotation: "By education I mean an all-round drawing out of the best in child and man-body, mind and spirit". Who has given this definition of education?

- (a) B R Ambedkar
- (b) M K Gandhi
- (c) Jawahar Lal Nehru
- (d) Sardar Vallabhai Patel

75. Consider the following socio religious movement and their founders

Socio religious movement	Founder
1. Theosophical Society	Rajaram Mohon Roy
2. Prarthana Samaj	Gopal Krishna Gokhale
3. Ramakrishna Mission	Swami Vivekananda
4. Arya Samaj	Dayanand Saraswati

Which of the above pairs have been correctly matched?

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

76. Some important freedom fighters and their honorifics are given below. Identify the wrong pair:

- (a) Khan Abdul Khafar Khan - Frontier Gandhi
- (b) Bhagat Singh- Punjab Lion
- (c) Subhash Chandra Bose-Prince among Patriots
- (d) Bal Gangadhar Tilak- Maratha Kesari

77. Which among the following is not a member of BRICS grouping?

- (a) Russia
- (b) China
- (c) Bangladesh
- (d) Brazil

78. "The Rafah border crossing" often seen in news is located between which of the following two territories?

- (a) Russia-Ukraine
- (b) Israel-Palestine
- (c) Armenia-Azerbaijan
- (d) Egypt-Gaza

79. Consider the following:

1. India-Middle East Europe Economic Corridor
2. Global Biofuel Alliance
3. Admittance of Israel to the G20

Which of the above were the outcomes of the G20 summit held under India's leadership in New Delhi in 2023?

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

80. Global Innovation Index released by which of the following bodies?

- (a) World Bank
- (b) IMF
- (c) World Intellectual Property Organization
- (d) World Trade Organization

81. The value of  $(5001)^2 - (4999)^2$  is:

- (a) 20000
- (b) 10000
- (c) 50000
- (d) None of these

82. How many terminating zeros in  $1 \times 2 \times 3 \times \dots \times 100$ ?

- (a) 10
- (b) 11
- (c) 21
- (d) 24

83. If 17th August, 1998 was Monday, what was the day of the week on 12th August, 1994?

- (a) Sunday
- (b) Wednesday
- (c) Tuesday
- (d) Friday

84. Select the pair in which the letter groups are similarly related as the pair LOWER: WORLE

LOWER: WORLE

- (a) GLAZE: AGELZ
- (b) AMONG: OMNAG
- (c) WORDS: ROSWD
- (d) ENTRY: RNYET

85. How many times are the hands of a clock at right angle in a day?

- (a) 22
- (b) 24
- (c) 44
- (d) 48

86.If a man were to sell his chair for Rs. 720, he would lose 25%. To gain 25%, he should sell it for

- (a) Rs. 1,200      (b) Rs. 1,000  
(c) Rs. 960        (d) Rs. 900

87.If a car moves along a straight line from A to B with a speed of 60 km/h and return back B to A with a speed of 40 km/h. Then the average speed is:

- (a) 44                      (b) 48  
(c) 50                      (d) None of these

88.Raju's income is 20% less than that of Rahim. How much percentage is Rahim's income more than that of Raju's income?

- (a) 20      (b) 25  
(c) 30      (d) 35

89.If the compound interest on a certain sum at 4% for 2 years is ₹2,448, then the simple interest on the same sum at the same rate for the same period is

- (a) ₹ 2,500      (b) ₹ 2,400  
(c) ₹ 2,436      (d) ₹ 2,420

90.Ravi studies for  $5\frac{2}{3}$  hours daily. He devotes  $2\frac{4}{5}$  hours of his time to Science and Mathematics. How much time does he devote to other subjects?

- (a)  $2\frac{11}{15}$  hours      (b)  $3\frac{13}{15}$  hours  
(c)  $3\frac{11}{15}$  hours      (d)  $2\frac{13}{15}$  hours

91.In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of the flight increased by 30 minutes. The duration of the flight is:

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

92.The arithmetic mean of the weights of 14 students in a class is 42 kgs. If the weight of the teacher is also included, the mean weight increases by 600 grams. Then the weight of the teacher is:

- (a) 64 kgs      (b) 54 kgs  
(c) 62 kgs      (d) 51 kgs

93.The sum of all two-digit numbers which leave the remainder of 5 when they are divided by 7 is equal to:

- (a) 715                      (b) 702  
(c) 615                      (d) 602

94.The difference of two numbers is 1365.On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number

- (a) 240                      (b) 270  
(c) 295                      (d) 360

(95-100) Directions for the following 6 (six) items:

Read the following passages and answer the six items that follow. YOUR answers to these items should be based on the passage only.

#### Passage-I

In the early 21st century, rapid technological advancements began to reshape various aspects of human life, from communication to transportation. The advent of the internet revolutionised the way people interacted, breaking down geographical barriers and enabling instantaneous information sharing. Social media platforms emerged as powerful tools for social and political movements, influencing public opinion and mobilising mass actions. Meanwhile, the development of renewable energy technologies, such as solar and wind power, started to challenge the dominance of fossil fuels, promising a more sustainable future. In transportation, electric vehicles and advancements in autonomous driving technology heralded a new era of mobility, reducing carbon emissions and enhancing safety. These technological transformations brought significant benefits but also raised new challenges, including issues of privacy, cybersecurity, and the displacement of traditional industries. The intersection of technology with society thus became a critical area of study, as policymakers and innovators worked to balance progress with ethical considerations.

95.Which of the following can be considered an impact of the rapid technological advancements in the early 21st century?

1. Enhanced communication through the internet
2. Increased reliance on fossil fuels
3. Growth of social media influence
4. Decline in global energy consumption

**Which of the above statements is/are valid?**

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

**96. What is the most important logical and rational message from the passage?**

- (a) The rise of renewable energy technologies is gradually reducing the global dependence on fossil fuels.
- (b) Social media platforms have no significant impact on social and political movements.
- (c) Traditional industries have largely remained unaffected by technological advancements.
- (d) The development of electric vehicles has not contributed to reducing carbon emissions.

**97. Which challenge is mentioned in the passage as a consequence of technological advancements?**

- (a) The reduction of privacy and cybersecurity concerns
- (b) The seamless integration of traditional and new industries
- (c) The displacement of traditional industries
- (d) The increase in geographical barriers due to digital divide

### **Passage-II**

The global response to climate change has become increasingly urgent as the effects of rising temperatures and extreme weather events become more apparent. Governments and organisations worldwide are implementing a variety of strategies to mitigate climate change and adapt to its impacts. One significant approach is the transition to renewable energy sources, such as wind, solar, and hydroelectric power, which aim to reduce greenhouse

gas emissions from fossil fuels. Additionally, reforestation projects and conservation efforts are underway to restore natural habitats and sequester carbon dioxide. Urban planning is also evolving, with cities investing in green infrastructure, sustainable transportation, and energy-efficient buildings to create more resilient communities. Despite these efforts, challenges remain, including the need for greater international cooperation, technological innovation, and funding to support large-scale projects. Public awareness and behavioural changes are also crucial in achieving long-term sustainability goals. The global fight against climate change thus requires a multifaceted and collaborative approach to ensure a livable planet for future generations.

**98. Which of the following strategies are mentioned in the passage as part of the global response to climate change?**

1. Transition to renewable energy sources
2. Increased use of fossil fuels
3. Reforestation projects
4. Urban planning with green infrastructure

**Which of the above statements is/are valid?**

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

**99. What is the most important logical and rational message from the passage?**

- (a) Reforestation projects alone can mitigate climate change effectively.
- (b) International cooperation and public awareness are crucial for combating climate change.
- (c) Urban planning has no role in addressing climate change.
- (d) The transition to renewable energy sources is unnecessary for reducing greenhouse gas emissions.

### **Passage-III**

In recent years, the popularity of plant-based diets has surged, driven by increasing awareness of health benefits, environmental sustainability, and animal welfare concerns. Studies have shown that plant-based diets can reduce the risk of chronic diseases, such as heart disease and diabetes, and contribute to lower greenhouse gas emissions compared to meat-based diets. Additionally, many people are turning to plant-based eating to advocate for

animal rights and reduce the demand for industrial farming practices that often involve inhumane treatment of animals. As a result, the market for plant-based food products has expanded rapidly, with a growing variety of options available in supermarkets and restaurants.

**100. Which of the following reasons are mentioned in the passage as drivers for the popularity of plant-based diets?**

1. Health benefits
2. Cost reduction
3. Environmental sustainability
4. Animal welfare concerns

**Which of the above statements is/are valid?**

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

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**SPACE FOR ROUGH WORK**





