



General Knowledge

Time Allowed: 2 Hours M. 100

Instructions

- 1. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer 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.
- 2. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
- 3. *All* items carry equal marks.
- 4. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.

- (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 to 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.
- **1.** A sprinter feels cramps and pain in the thigh muscles after a run. This is due to accumulation of
 - (a) lactic acid
- (b) CO₂
- (c) pyruvic acid
- (d) ethanol
- 2. A leaf was plucked from a plant on a sunny day and kept for 2 minutes in boiling water. It was subsequently immersed in boiling alcohol and treated with iodine solution. What will be the final colour of the leaf after the test?
 - (a) Colourless
- (b) Green
- (c) Blue
- (d) White
- 3. If the red blood cells (RBCs) of human blood are isolated and are diluted in normal saline (an isotonic solution to blood), what will happen to the RBCs?
 - (a) The RBCs will swell
 - (b) The RBCs will swell and burst
 - (c) The RBCs will shrink
 - (d) No change in the diameters of the RBCs
- **4.** Which one of the following statements regarding bile secreted by liver is **not** correct?
 - (a) Bile contains enzymes for digestion of lipids.
 - **(b)** Bile facilitates emulsification of fats.

- (c) Bile neutralizes the acidic pH of the food coming from stomach.
- **(d)** Bile makes the pH of the food alkaline and facilitates action of pancreatic enzymes.
- **5.** The blood pressure of a normal human being is found to be 120/80 mmHg. These 'numbers' represent the blood pressure at
 - (a) ventricular contraction and ventricular relaxation, respectively
 - **(b)** ventricular relaxation and ventricular contraction, respectively
 - (c) auricular contraction and auricular relaxation, respectively
 - (d) ventricular contraction and auricular contraction, respectively
- **6.** A person burned a firecracker in front of a cliff and heard its echo 5 s after it burst. The distance of the cliff from the person, if the speed of the sound is 340 m/s, is close to
 - (a) 1700 m
- **(b)** 170 m
- (c) 85 m
- (d) 850 m
- **7.** Consider the following statements about the microphone and the speaker of a mobile phone:

- The microphone converts sound to a mechanical signal.
- **2.** The microphone converts sound to an electrical signal.
- **3.** The speaker converts a mechanical signal to sound.
- **4.** The speaker converts an electrical signal to sound.

Which of the statements given above are correct?

- (a) 1 and 3
- **(b)** 1 and 4
- (c) 2 and 3
- (d) 2 and 4
- 8. A 100 W electric bulb is used for 10 hours a day. How many units of electrical energy are consumed by the bulb in 3 days? (1 unit = 1 kWh)
 - (a) 3.00
- **(b)** 1.08
- (c) 2.16
- (d) 0.33
- **9.** The area under the velocity-time graph for a particle moving in a straight line with uniform acceleration gives
 - (a) its average velocity
 - (b) its net displacement
 - (c) the distance travelled by it
 - (d) its average speed
- 10. The power of a lens of focal length 10 cm is
 - (a) 0.1 dioptre
- (b) 1 dioptre
- (c) 10 dioptre
- (d) 100 dioptre
- **11.** Consider the following statements regarding burning of magnesium ribbon in air :
 - **1.** White powder of MgO is formed.
 - **2.** It is an example of combustion reaction.
 - 3. Heat and light are produced.

Which of the statements given above are correct?

- (a) 1 and 2 only
- **(b)** 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- **12.** Which of the following statements with regard to the reaction given below are correct?

 $CaO(s) + H_2O(l) \rightarrow Ca(OH)_2(aq) + Heat$

 Quicklime is used for white-washing of walls.

- The solution of slaked lime is used for whitewashing of walls.
- CaO reacts slowly with CO₂ in air to form a thin layer of CaCO₃ on walls.
- **4.** Calcium hydroxide called 'slaked lime' is an inorganic compound.

Select the correct answer using the code given below.

- (a) 1 and 4 only
- **(b)** 2 and 4
- (c) 2 and 3
- (d) 1, 3 and 4
- **13.** Which of the following statements with regard to heating of lead nitrate powder over a flame are correct?
 - 1. Brown fumes of NO are released.
 - 2. Colourless O₂ gas is released.
 - 3. It is an example of oxidation reaction.
 - 4. It is an example of thermal decomposition used for the production of NO₂ gas.

Select the correct answer using the code given below.

- (a) 1 and 2
- **(b)** 2, 3 and 4
- (c) 1, 3 and 4
- (d) 2 and 4 only
- **14.** Which one of the following is *not* an oxidation reaction?
 - (a) Rusting of iron
 - (b) Opening of soda bottle
 - (c) Rancidity
 - (d) Combustion
- **15.** Consider the following clues about a State of India:
 - 1. It is known as land of red river and blue hills'.
 - 2. It contains three of the six physiographic divisions of India.
 - 3. It covers about 2.39 percent of total areas of the country.

Identify the State on the basis of the given clues.

- (a) Karnataka
- (b) Andhra Pradesh
- (c) Assam
- (d) Chhattisgarh
- **16.** Which of the following sets of States shares boundary with Telangana?
 - (a) Odisha, Andhra Pradesh, Karnataka, Maharashtra

- **(b)** Chhattisgarh, Andhra Pradesh, Karnataka, Madhya Pradesh
- (c) Odisha, Andhra Pradesh, Karnataka, Madhya Pradesh
- (d) Chhattisgarh, Andhra Pradesh, Karnataka, Maharashtra
- 17. Rani told her friends that last year she did boating in four different lakes, namely, Loktak, Barapani, Kolleru and Pulicat. Which of the following States did she visit?
 - (a) Manipur, Meghalaya, Kerala, Tamil Nadu
 - **(b)** Manipur, Meghalaya, Andhra Pradesh, Tamil Nadu
 - (c) Mizoram, Assam, Kerala, Tamil Nadu
 - (d) Mizoram, Assam, Andhra Pradesh, Tamil Nadu
- **18.** According to the Census 2011, which of the following statements is/are correct?
 - 1. A person who can only read but cannot write, is not literate.
 - 2. A person aged seven years and above, who can both read and write with understanding in any language is treated as literate.

Select the correct answer using the code given below.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **19.** The Tropic of Cancer passes through how many coastal and landlocked States of India, respectively?
 - (a) 1 and 7
- (b) 2 and 6
- (c) 2 and 5
- (d) 3 and 5
- **20.** Which one of the following situations can lead to inflation?
 - (a) Rapid growth of aggregate demand outweighing supply
 - (b) Sluggish growth of aggregate demand
 - (c) Reduction in the money supply
 - (d) Higher levels of unemployment

- **21.** Which of the following policies help to raise interest rate unambiguously and thereby lead to appreciation of currency?
 - (a) Expansionary fiscal and monetary policy
 - **(b)** Contractionary fiscal and monetary policy
 - (c) Contractionary fiscal policy and expansionary monetary policy
 - **(d)** Contractionary monetary policy and expansionary fiscal policy
- **22.** The contraction of private investment spending due to deficit spending by the Government is called
 - (a) crowding out
- (b) crowding in
- (c) pump priming
- (d) dumping
- **23.** Which among the following is/are the objective/ objectives of the NITI Aayog?
 - 1. Imposing policies on the States/UTs
 - 2. Allocation of funds at National and State levels
 - 3. Design strategies and long-term policies and programme frame-works

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only
- **24.** The computation of poverty in terms of Monthly Per Capita Consumption Expenditure (MPCE) based on the Mixed Reference Period was recommended by the
 - (a) Lakdawala Committee
 - (b) Tendulkar Committee
 - (c) Dandekar Committee
 - (d) Alagh Committee
- **25.** Which of the following is/are the sub-mission/ sub-missions of the National Skill Development Mission (NSDM)?
 - 1. Institutional training
 - 2. Overseas employment
 - 3. Leveraging of public infrastructure Select the correct answer using the code given below.
 - (a) 1 only
- **(b)** 2 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

- **26.** Which of the following strategies is/are adopted for implementing the POSHAN Abhiyaan?
 - 1. Inter-sectoral convergence for better service delivery
 - 2. Use of technology (ICT) for real-time growth monitoring of women and children Select the correct answer using the code given below.
 - (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **27.** Which of the following conditions is/are necessary for the issue of a writ of certiorari in India?
 - 1. There should be a tribunal or an officer having legal authority to determine questions affecting rights of subjects and having a duty to act judicially.
 - 2. Such tribunal or officer has acted without jurisdiction.

Select the correct answer using the code given below.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **28.** Who among the following Chief Justices of India ordered the constitution of a Special Bench called 'Social Justice Bench'?
 - (a) Justice H. L. Dattu
 - (b) Justice K. G. Balakrishnan
 - (c) Justice R. M. Lodha
 - (d) Justice Y. K. Sabharwal
- **29.** Who among the following is the author of the book, Bandi Jivan?
 - (a) Rash Behari Bose
 - (b) Veer Savarkar
 - (c) Aruna Asaf Ali
 - (d) Sachindranath Sanyal
- **30.** In the election held in 1937, in which two provinces was the Indian National Congress not able to emerge as the single largest party?
 - (a) Punjab and Sind
 - **(b)** Assam and North-West Frontier Province
 - (c) Punjab and Assam
 - (d) Assam and Madras

31. Consider the following statements :

After forming the Indian National Army, Subhas Chandra Bose

- recruited a large number of soldiers from the Indian Prisoners of War in Japanese camp
- 2. introduced a women's detachment named after the Rani of Jhansi

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
- **32.** Which one of the following pairs denoting various forms of 'Bhakti' is *not* correctly matched?
 - (a) Saguna : Belief in Gods with attributes
 - (b) Nirguna: Belief in Gods without attributes
 - (c) Alvars : Believed in devotion of Shakti
 - (d) Nayanars: Believed in devotion of Shiva
- **33.** Which two rivers flow in the region between Gulbarga and Vijayanagara Hampi?
 - (a) Narmada and Godavari
 - (b) Mahanadi and Godavari
 - (c) Kaveri and Periyar
 - (d) Krishna and Tungabhadra
- **34.** Which of the following is the only paramilitary force with a dual control structure?
 - (a) Central Reserve Police Force
 - (b) Assam Rifles
 - (c) Indo-Tibetan Border Police
 - (d) Central Industrial Security Force
- **35.** Which one of the following is an ethnic community of Assam?
 - (a) Bhil
- (b) Gond
- (c) Ahom
- (d) Adi
- **36.** The Chevrons is the name of the cricket team of which one of the following countries?
 - (a) Australia
- (b) The Netherlands
- (c) Ireland
- (d) Zimbabwe
- **37.** Cheetahs, brought from Namibia, were introduced in India to which one of the following National Parks?

- (a) Kaziranga National Park
- (b) Keoladeo Ghana National Park
- (c) Keibul Lamjao National Park
- (d) Kuno National Park
- **38.** Who among the following is *not* a recipient of the Nobel Prize in Physics in 2022?
 - (a) Alain Aspect
 - (b) John F. Clauser
 - (c) Klaus Hasselmann
 - (d) Anton Zeilinger
- **39.** Reflex arcs are evolved in animals for quick and efficient responses. Which one of the following sequences correctly represents a reflex arc?
 - (a) Receptor—Sensory neuron—Relay neuron in spinal cord—Brain— Motor neuron—Effector
 - (b) Receptor—Sensory neuron—Brain Relay neuron in spinal cord —Motor neuron—Effector
 - (c) Receptor—Motor neuron—Relay neuron in spinal cord—Sensory neuron—Effector
 - (d) Receptor—Motor neuron—Brain Sensory neuron—Effector
- **40.** Which one of the following is essential for thyroid gland to make thyroxin?
 - (a) NaCl
- (b) KC1
- (c) Cholesterol
- (d) Iodine
- **41.** In plant cells, RNA is present in
 - (a) cytoplasm only
 - (b) nuclei and cytoplasm only
 - (c) nuclei, cytoplasm, mitochondria, chloroplast and endoplasmic reticulum
 - (d) nuclei, cytoplasm, mitochondria, chloroplast and ribosomes
- **42.** In grasses, intercalary meristem is usually located at
 - (a) root tip
 - (b) lateral sides of stem
 - (c) base of leaves
 - (d) shoot tip

- **43.** Xylem is a type of complex tissue in plants for upward conduction of water. Which one of the following xylem tissues consists of living cells?
 - (a) Tracheid
 - (b) Vessel
 - (c) Xylem parenchyma
 - (d) Xylem fibre
- **44.** Three resistors of resistances 11 Ω , 22 Ω and 33 Ω are connected in parallel. Their equivalent resistance is equal to
 - (a) 66Ω
- (b) 22Ω
- (c) 12Ω
- (d) 6Ω
- **45.** The r.m.s. potential difference between the red live wire and black neutral wire in Indian domestic electric supply is
 - (a) 160 V
- **(b)** 220 V
- (c) 300 V
- (d) 410 V
- **46.** The hydrogen bomb and the uranium bomb are based, respectively on
 - (a) nuclear fusion and fission
 - **(b)** fission and thermonuclear fusion
 - (c) geothermal fission and fusion
 - (d) geothermal fusion and fission
- 47. Sound and light waves are
 - (a) respectively longitudinal and transverse in air
 - (b) respectively transverse and longitudinal in
 - (c) both longitudinal in air
 - (d) both transverse in air
- **48.** A car moving with a speed of 12 m/s is subjected to brakes which produces a deceleration of n/l s². The car takes 2 s to stop after the application of brakes. What is the distance covered by the car after the application of brakes?
 - (a) 12 m
- **(b)** 24 m
- (c) 36 m
- (d) 48 m
- **49.** What is the chemical composition of a sodaacid type fire extinguisher?
 - **(a)** Solution of sodium hydrogen carbonate and sulfuric acid

- **(b)** Solution of sodium carbonate and sulfuric acid
- **(c)** Solution of carbon dioxide and sulfuric acid
- **(d)** Solution of sodium chloride and sulfuric acid
- **50.** Consider the following statements :

While diluting concentrated nitric acid solution

- 1. the concentration of [H₃O⁺] ions/ volume increases
- 2. water must be added slowly to concentrated acid
- 3. acid must be added slowly to water Which of the statements given above is/are correct?
- (a) 1, 2 and 3
- **(b)** 1 and 2 only
- (c) 3 only
- (d) 2 and 3 only
- **51.** Which one of the following is the correct order of pH for the given substances?
 - (a) Coffee < Lemon juice < Milk of magnesia < Blood
 - **(b)** Milk of magnesia < Blood < Coffee < Lemon juice
 - (c) Lemon juice < Blood < Coffee < Milk of magnesia
 - (d) Lemon juice < Coffee < Blood < Milk of magnesia
- **52.** Which one of the following is not true for anodizing process?
 - (a) It makes aluminium corrosion resistant.
 - **(b)** Metals like aluminium, titanium and magnesium can be anodized.
 - (c) Clean aluminium article is the anode and oxygen gas is evolved at the cathode.
 - (d) It is used in aircraft industry.
- **53.** Naphthalene burns with a yellow sooty flame. This is because
 - (a) carbon to hydrogen ratio is low
 - (b) there is incomplete combustion
 - (c) there is excess supply of air
 - **(d)** of presence of impurities of nitrogen and sulfur

- **54.** Which of the following statements are true for the reaction of Fe₂O₃ with aluminium?
 - 1. It is known as the 'thermite reaction'.
 - 2. The heat evolved is used for welding purpose.
 - Aluminium metal acts as an oxidizing agent.
 - 4. Molten Fe and Al are formed at the end of the reaction.

- (a) 1 and 2
- **(b)** 1 and 3
- (c) 2 and 4
- (d) 1 and 4
- 55. Vicky told his friends about his visit to Stewart Island, Bay of Plenty and Hawke Bay. Which country did Vicky visit?
 - (a) Canada
- **(b)** Australia
- (c) New Zealand
- (d) Ireland
- **56.** Manav is planning to visit all UNESCO World Heritage Sites in Delhi. He will be visiting
 - (a) Red Fort, Qutab Minar, Jama Masjid
 - (b) Red Fort, India Gate, Qutab Minar
 - (c) Red Fort, Qutab Minar, Humayun Tomb
 - (d) Red Fort, Humayun Tomb, India Gate
- **57.** What will be the correct sequence of cities on the bank of river Ganga if someone moves from west to east?
 - (a) Prayagraj, Kanpur, Bhagalpur, Patna
 - (b) Prayagraj, Kanpur, Patna, Bhagalpur
 - (c) Kanpur, Prayagraj, Bhagalpur, Patna
 - (d) Kanpur, Prayagraj, Patna, Bhagalpur
- **58.** Which one among the following States has the longest extension in north-south direction?
 - (a) Jharkhand
- (b) Telangana
- (c) Odisha
- (d) Chhattisgarh
- **59.** Match List-I with List-II and select the correct answer using the code given below the Lists:

List-I	List-II
(Day)	(Date)
A. World Wetlands Day	1. 29 July
B. International Tiger Day	2. 22 April
C. World Water Day	3. 2 February
D. International Mother	4. 22 March
Earth Day	

Code:

- (a) A B C D
 - 3 4 1 2
- **(b)** A B C D
 - 3 1 4 2
- (c) A B C D
 - 2 1 4 3
- (d) A B C D
 - 2 4 1 3
- **60.** Which one of the following States/UTs is *not* among the top five in the Performance Grading Index (PGI), published by the Ministry of Education for the year 2020--2021?
 - (a) Kerala
- (b) Punjab
- (c) NCT of Delhi
- (d) Chandigarh
- **61.** Consider the following statements and identify the actress:

She is a renowned film actress, director and producer, and an accomplished Indian classical dancer. She was conferred the Padma Shri in 1992 and has served as the Head of Central Board for Film Certification from 1998 to 2001. In recognition to her exemplary lifetime contribution to Indian Cinema, she was honoured with the prestigious Dadasaheb Phalke Award.

- (a) Vyjayanthimala
- (b) Waheeda Rehman
- (c) Mala Sinha
- (d) Asha Parekh
- **62.** Which one of the following is the venue of the UN 2023 Water Conference?
 - (a) Washington, DC
 - (b) New York
 - (c) San Diego
 - (d) New Delhi
- **63.** Which of the following statements is/are correct?
 - Tomb of Sand, written by Geetanjali Shree, is the first book originally written in any Indian language to win the International Booker Prize.

2. *Tomb of Sand* is the first novel translated from Hindi to be given the International Booker Prize.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **64.** The eighth edition of the Exercise Garuda Shakti, a bilateral military-to-military exercise, was conducted recently between the special forces of India and
 - (a) Japan
- (b) Indonesia
- (c) Bhutan
- (d) Myanmar
- **65.** Which one of the following is a measure that can be used by the Government for combatting inflation?
 - (a) Increasing the non-planned expenditure on defence, police, etc.
 - **(b)** Providing more subsidies on exports
 - **(c)** Increasing the rate of interest on savings and fixed deposits
 - (d) Reduction in the cash reserve ratio (CRR)
- **66.** The sustained decrease in the general price level is called as
 - (a) deflation
- (b) stagflation
- (c) devaluation
- (d) recession
- **67.** Which one of the following indicators is included in the National Multidimensional Poverty Index (MPI)?
 - (a) Years of schooling
 - (b) Literacy rate
 - (c) Life expectancy
 - (d) Per capita income
- **68.** The unemployment that occurs due to changes in the technology or in the demand for particular products is called
 - (a) frictional unemployment
 - **(b)** structural unemployment
 - (c) cyclical unemployment
 - (d) disguised unemployment

- **69.** Which of the following is/are the objective/ objectives of the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)?
 - 1. Correcting regional imbalances in the availability of tertiary health care services
 - 2. Providing universal access to public health services and universal immunization
 - 3. Augmenting facilities for quality medical education in the country

- (a) 1 and 3 only
- **(b)** 2 and 3 only
- (c) 1 only
- (d) 1, 2 and 3
- **70.** Who among the following political leaders suggested the dissolution of the Indian National Congress as a political organization and its replacement by a Lok Sevak Sangh?
 - (a) Vallabhbhai Patel
 - (b) Dr. B. R. Ambedkar
 - (c) M. K. Gandhi
 - (d) Jawaharlal Nehru
- **71.** India is the first country in the world to deploy an all-woman contingent to a UN Peacekeeping Mission. In which country did this mission operate?
 - (a) Liberia
- (b) Sudan
- (c) Burundi
- (d) Croatia
- **72.** Which one among the following is *not* a part of the SWAYAM programme?
 - (a) Video lectures
 - **(b)** Classroom lectures
 - (c) Online discussion forum for clearing doubts
 - (d) Specially prepared material that can be downloaded/printed
- **73.** Which one among the following Departments/ Authorities is *not* under the Ministry of Home Affairs?
 - (a) The Department of States
 - **(b)** The Department of Official Language
 - (c) The National Authority Chemical Weapons
 Convention
 - (d) The Department of Jammu, Kashmir and Ladakh Affairs

- **74.** Who among the following is given discretionary powers under the Fifth Schedule of the Constitution of India to set up a Tribes Advisory Council in a State which has Scheduled Tribes but not Scheduled Areas?
 - (a) The Governor of the concerned State
 - (b) The President of India
 - (c) The Inter-State Council
 - (d) The Parliament of India
- **75.** Which of the following States/UTs are included in the Northern Zonal Council?
 - (a) Uttarakhand, Uttar Pradesh, Haryana, Punjab, Jammu and Kashmir
 - **(b)** Haryana, Punjab, Himachal Pradesh, Rajasthan and NCT of Delhi
 - (c) Uttar Pradesh, Uttarakhand, Punjab, Haryana and Rajasthan
 - (d) Uttarakhand, Uttar Pradesh, Himachal Pradesh, Punjab and Haryana
- **76.** The notion of kinship projected by the Kushana rulers is best evidenced through which of the following?
 - (a) Their identification with deities
 - **(b)** Grants to religious institutions
 - (c) Inscriptional panegyrics
 - (d) Coins and sculpture
- 77. Who among the following were referred to as the Theris' in ancient India?
 - (a) Respected women
 - (b) Elder nuns in Buddhism
 - (c) Women denied the Bhikkhuni status
 - (d) Women expelled from the Buddhist Sangha
- **78.** Which member of the Servants of India Society founded the Seva Samiti at Allahabad in 1914?
 - (a) Shri Ram Bajpai
 - (b) Hriday Nath Kunzru
 - (c) S. G. Vaze
 - (d) Srinivas Shastri
- **79.** The First Anglo-Maratha War was concluded by which one of the following?
 - (a) The Treaty of Surat

- **(b)** The Treaty of Purandar
- (c) The Convention of Wadgaon
- (d) The Treaty of Salbai
- **80.** Name the battle in which the Travancore King defeated the Dutch in 1741.
 - (a) The Battle of Porto Novo
 - (b) The Battle of Colachel
 - (c) The Battle of Pollilore
 - (d) The Battle of Changanassery
- **81.** In which one of the following revolts did the Koya and Konda tribal chiefs rise against the local overlord from a Mansabdar family?
 - (a) The Rampa Rebellion, 1879-1880
 - (b) The Gudem Uprising, 1886
 - (c) The Rampa Rebellion, 1922-1924
 - (d) The Telangana Armed Struggle, 1946-1951
- **82.** Which country won the FIFA World Cup (Men) for maximum number of times?
 - (a) Argentina
- (b) Brazil
- (c) France
- (d) Spain
- **83.** Who among the following is the author of the famous novel, *City* of *Joy*?
 - (a) Larry Collins
 - (b) Dominique Lapierre
 - (c) Rudyard Kipling
 - (d) Mark Tully
- **84.** Who among the following is honoured with the UN Environment Programme's 2022 Champions of the Earth Award in the Entrepreneurial Vision category?
 - (a) Ela Bhatt
 - (b) Amit Dasgupta
 - (c) Pumima Devi Barman
 - (d) Vanshika Parmar
- **85.** The theme of India's G20 Presidency "Vasudhaiva Kutumbakam' or 'One Earth-One Family-One Future' is drawn from the
 - (a) Maha Purana
- (b) Maha Upanishad
- (c) Rig Veda
- (d) Smriti
- **86.** The 16th edition of Indo-Nepal annual joint training exercise in jungle warfare and counter

terrorism operations was held in December 2022 at Nepal Army Battle School, Saljhandi. What is the name of this exercise?

- (a) Sampriti
- (b) Mitra Shakti
- (c) Yudh Abhyas
- (d) Surya Kiran
- **87.** If it is 10:00 a.m. at Greenwich Mean Time (GMT), then what will be the time at 90° E longitude?
 - (a) 5:00 a.m.
- **(b)** 4:00 a.m.
- (c) 3:00 p.m.
- (d) 4:00 p.m.
- **88.** Which of the following groups of planets is termed as 'gas planets' as they are composed primarily of lighter ices, liquids and gases?
 - (a) Mars, Jupiter, Neptune, Uranus
 - (b) Jupiter, Uranus, Neptune, Saturn
 - (c) Saturn, Mars, Jupiter, Neptune
 - (d) Neptune, Saturn, Mars, Uranus
- **89.** Consider the following characteristics of a soil type:
 - 1. These soils consist of various proportions of sand, silt and clay.
 - 2. These soils contain adequate proportions of potash, phosphoric acid and lime.
 - 3. These soils can be further classified on the basis of their age.

Identify the type of soil on the basis of the given characteristics.

- (a) Alluvial
- (b) Laterite
- (c) Arid
- (d) Black
- **90.** Consider the following statements and identify the correct answer using the code given below:
 - **1.** In a thermal power station, fuels such as oil, coal or natural gas are used to generate electricity.
 - 2. Fuels are burned to heat water and turn it into steam, which goes through a turbine, which spins and turns, generating electricity.

Code:

(a) Statement 1 is correct but statement 2 is not correct

- **(b)** Statement 2 is correct but statement 1 is not correct
- (c) Both the statements are correct and statement 2 explains statement 1
- (d) Both the statements are correct but statement 2 does not explain statement 1
- 91. Indus river basin is extended up to
 - (a) Ladakh, Jammu and Kashmir, Himachal Pradesh, Punjab
 - (b) Ladakh, Jammu and Kashmir, Punjab, Haryana
 - (c) Ladakh, Jammu and Kashmir, Punjab, Haryana, Rajasthan
 - (d) Ladakh, Jammu and Kashmir, Himachal Pradesh, Punjab, Haiyana, Rajasthan
- **92.** Which one of the following statements about the Solicitor General of India (SGI) is *not* correct?
 - (a) The SGI is the Government's chief legal advisor.
 - **(b)** The SGI is the secondary law officer of the country.
 - (c) The post of the SGI is a constitutional post.
 - (d) The SGI is appointed by the Appointments Committee of the Cabinet.
- **93.** Which one of the following committees does *not* have members from the Rajya Sabha?
 - (a) The Public Accounts Committee
 - **(b)** The Committee on Public Undertakings
 - (c) The Estimates Committee
 - **(d)** The Committee on the Welfare of Scheduled Castes and Scheduled Tribes
- **94.** Which one of the following statements about the election of the President of India is *not* correct?
 - **(a)** A Union Minister shall not be eligible for election as the President.
 - **(b)** The President is elected by the elected members of the Parliament and the Legislative Assemblies of States and Union Territories.

- (c) The Electoral College does not include elected members of the Legislative Councils.
- (d) The system of proportional representation by means of single transferable vote is followed.
- **95.** The Citizenship Act, 1955 deals with the determination of citizenship on or after
 - (a) 26th January, 1950
 - **(b)** 26th November, 1949
 - (c) 15th August, 1947
 - (d) 14th August, 1947
- **96.** According to the National Multi-dimensional Poverty Index (MPI) constructed by the NITI Aayog, a household is considered deprived if
 - 1. a single member of the household is identified as under-nourished
 - 2. the body mass index of a woman member, between 15 years and 49 years of age, is below 18-5 kg/m2

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **97.** The titles of 'Rayagajakesari' and 'Dayagajakesari' were associated with which one of the following dynasties?
 - (a) Kakatiya
- (b) Vijayanagara
- (c) Gajapati
- (d) Rashtrakuta
- **98.** Name the location of the musical inscription containing groups of musical notes arranged for the benefit of his pupils by a king in the seventh or eighth century CE.
 - (a) Ennayiram
 - (b) Uttaramerur
 - (c) Siyyamangalam
 - (d) Kudumiyamalai
- **99.** In the context of eighteenth century India, what was 'Dastak?
 - (a) Signature
 - (b) Land document
 - (c) Trade permit
 - (d) Tax on textiles

- **100.** Which one of the following was primarily associated with Dadni' system?
 - (a) Textile production
 - (b) Warfare
 - (c) Payment to officials
 - (d) Revenue collection
- **101.** Consider the following statements about Kanaganahalli archaeological site :
 - 1. It is situated on the bank of Bhima river.
 - 2. The remains of the Kanaganahalli Stupa can be dated between 1st and 3rd centuries CE.
 - 3. Emperor Ashoka's image was found at the site.

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
- **102.** Which of the following statements about volcanoes are correct?
 - 1. The strength of a volcano is measured by the Volcanic Explosive Index.
 - 2. Iceland and Philippines were created by volcanic activity.
 - 3. Volcanic soils are rich, deep and fertile and allow intensive agriculture to take place.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- **(c)** 1 and 3 only
- (d) 1, 2 and 3
- **103.** Consider the following characteristics of a cloud type:
 - 1. They are born through convection.
 - 2. Only cloud type that can produce hail, thunder and lightning.
 - 3. They are large cauliflower-shaped towers, often 'anvil tops'.

Identify the type of cloud on the basis of the given characteristics.

- (a) Stratocumulus
- (b) Cumulonimbus
- (c) Cirrocumulus
- (d) Nimbostratus

- 104. Meena wants to show diagrammatically how two sets of data, namely, population size and number of services are related to each other. Which one of the following will be the most suitable for the presentation?
 - (a) Pie chart
 - (b) Scatter graph
 - (c) Bar chart
 - (d) Triangular graph
- **105.** Which one of the following Indian States has the longest coastline?
 - (a) Tamil Nadu
 - (b) Gujarat
 - (c) Maharashtra
 - (d) Andhra Pradesh
- **106.** Which of the following statements is/are correct?
 - 1. Visakhapatnam Port is a land-locked harbour.
 - 2. Deendayal Port is a tidal port.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 107. There is an increase in forest cover area of India between 2011 and 2021. However, there is a decrease in forest cover area of India during the same period in
 - (a) very dense forest (canopy density of more than 70 percent)
 - **(b)** moderately dense forest (canopy density between 40-70 percent)
 - (c) open forest (canopy density between 10-20 percent)
 - (d) Both (b) and (c)
- **108.** Consider the following statements concerning the National Education Policy, 2020 :
 - At least 50 percent of the learners through school and higher education system to get exposure to vocational education by 2025.
 - 2. Secondary schools should collaborate with ITIs, Polytechnics and local industries.
 - 3. Vocational education to be exclusively provided by NGOs.

Which of the statements given above is/are correct?

- (a) 1 only
- **(b)** 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- **109.** Which of the following sets of States is at the bottom of the Composite SDG India Index, 2020-2021 as per the NITI Aayog?
 - (a) Assam, Jharkhand, Bihar
 - (b) Uttar Pradesh, Jharkhand, Bihar
 - (c) Uttar Pradesh, Bihar, Assam
 - (d) Odisha, Bihar, Jharkhand
- **110.** Which one of the following is not a part of Article 51 of the Constitution of India?
 - (a) Promote international peace and security
 - **(b)** Maintain just and honourable relations between nations
 - **(c)** Use of UN peacekeeping force for resolution of international disputes
 - **(d)** Encourage settlement of international disputes by arbitration
- **111.** Who among the following was *not* in the core leadership of the Non-Aligned Movement (NAM) in its formative phase?
 - (a) Kwame Nkrumah
 - (b) Gamal Abdel Nasser
 - (c) Jawaharlal Nehru
 - (d) Fidel Castro
- **112.** In respect to Balutedars, which of the statements given below are correct?
 - 1. They were village servants and artisans.
 - 2. They were employed by individual peasant family.
 - 3. They existed in the Medieval Deccan and Maharashtra.

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- **(c)** 1 and 3 only
- (d) 1, 2 and 3
- **113.** Which one of the following Viceroys was the first to officially shift his Council to Simla in summer season?
 - (a) John Lawrence
 - **(b)** Lord Dalhousie
 - (c) Lord Mayo
 - (d) William Bentinck

- **114.** Who among the following is the author of Maze Vidyapeeth, the famous poem about the life of working class of Bombay?
 - (a) Narayan Surve
 - (b) Amol Palekar
 - (c) Bhalchandra Nemade
 - (d) Narendra Jadhav
- **115.** Who among the following founded the Hindu Dharma Sabha in the 19th century?
 - (a) Radhakanta Deb
 - (b) Ram Mohan Roy
 - (c) Dwarkanath Tagore
 - (d) Keshab Chandra Sen
- 116. The resolution adopted by the United Nations General Assembly on 3 March, 2021 decided to celebrate the year 2023 as the International Year of
 - (a) Basic Sciences for Sustainable Development
 - (b) Glass
 - (c) Millets
 - (d) Camelids
- **117.** Karthik Meiyappan, who secured hat-trick in the ICC Men's T20 World Cup, 2022, represents
 - (a) Zimbabwe
 - (b) United Arab Emirates
 - (c) Sri Lanka
 - (d) Namibia
- **118.** Which one of the following statements about the Wassenaar Arrangement is *not* correct?
 - (a) There are 42 participating nations in the Arrangement.
 - **(b)** It is formed primarily as a nuclear weapon overseer.
 - **(c)** India is the current Chairman of the Arrangement.
 - **(d)** India joined the Arrangement in the year 2017.
- **119.** Who among the following is known as 'Payyoli Express?
 - (a) Hima Das
- (b) Dutee Chand
- (c) P. T. Usha
- (d) Shiny Abraham

120. Match List-I with List-II relating to Sahitya Akademi Award Winners, 2022 and select the correct answer using the code given below the Lists:

List-I List-II (Title and Genre) (Author) A. Bhool Satya (Short Stories) Kamal Ranga **B.** Tumadi Ke Shabd (Poetry) Veena Gupta C. Chhe Roopak (Drama) Badri Narayan 3. Manoj Kumar Goswami **D.** Alekhun Amba (Play) Code: C В C D (a) A В D (b) A 3 1 3 2 4 1 2 4 (c) A В C D (d) Α В C D 4 3 2 1 4 2 3 1

Answers

Q.No.	Answer Key	Topic's Name	Chapter's Name	
1	a	Respiration	Life processes	
2	c	Nutrition in plants	Life processes	
3	d	Osmosis	Transport in plants	
4	a	Digestion of food	Digestion and Absorption	
5	a	Blood pressure	Body fluids and circulation	
6	d	Speed of Sound	Sound	
7	d	Sonic Devices	Sound	
8	a	Electric Power	Electric current	
9	b	Velocity time graph	Motion in one dimention	
10	С	Power of Lens	Ray Optics	
11	d	Characteristics of Reactions	Chemical Reactions & Equations	
12	С	Combustion Reaction	Chemical Reactions & Equations	
13	d	Types of Reactions	Chemical Reactions & Equations	
14	b	Types of Reactions	Chemical Reactions & Equations	
15	С	States of India	General Knowledge	
16	d	Indian States	General Knowledge	
17	b	Lake and Rivers	General Knowledge	
18	b	Concept of literatecy	The 2011 Census of India	
19	b	Costal and Landlocked states of India	Indian States	
20	a	Inflation	Market equlibrium	
21	d	Appreciation of currency	Monetary Policy	
22	a	crowding out	Fiscal Policy in India	
23	d	Niti Aayog Objective	Indian Economic Development	
24	b	Tendulkar Committee	Poverty in India	
25	С	National Skill Development Mission	Governmental Programmes	

Q.No.	Answer Key	Topic's Name	Chapter's Name		
26	С	POSHAN Abhiyaan	Governmental Programmes		
27	С	Writ of certiorari in India	Indian Judicial System		
28	a	42nd Chief Justice of India	Current Affairs		
29	d	Bandi Jeevan -	Book and Author		
30	a	1937 Indian provincial elections	Indian National Congress		
31	С	Formation of Indian National Army	Struggle for Independence		
32	С	Match the pair	Bhakti Sant of India		
33	d	Krishna and Tungabhadra rivers	Rivers flow in India		
34	b	Dual control structure	Paramilitary Force of India		
35	С	Ahom ethnic community	Tribal Group in Assam		
36	d	Zimbabwe cricket team	World cricket		
37	d	Project Cheetah	Current Affairs		
38	С	The Nobel Prize in Physics for 2022	Prize/Award		
39	a	Reflex Action and Reflex Arc	Neural control and coordination		
40	d	Therapeutic Action of different Classes of Drugs	Chemistry in Everyday Life		
41	d	Eukaryotic Cells	Cell: The Unit of Life		
42	c	Meristematic tissue	Tissues		
43	c	Complex permanent tissue	Tissues		
44	d	Series and Parallel Combination	Electric Current		
45	b	Domestic circuit	AC Current		
46	a	Nuclear Energy	Nuclear Chemistry		
47	a	Types of Waves	Waves		
48	a	Equations of motion	Motion in one dimension		
49	a	Properties of Sodium Compounds	s - block elements		
50	С	Concentration of Solutions	Some Basic Concepts Of Chemistry		
51	d	pH Of Solutions	Ionic Equilibrium		
52	С	Uses of Aluminium, Copper, Zinc and Iron	General Principles and Processes of Isolation of Elements		
53	a	Unsaturated Carbons	Carbon & Its Compounds		
54	a	Uses of Aluminium, Copper, Zinc and Iron	General Principles and Processes of Isolation of Elements		
55	С	New Zealand	General Knowledge		
56	С	UNESCO sites in Delhi	General Knowledge		
57	d	Cities & Rivers	General Knowledge		
58	d	Chhattisgarh	Indian States		
59	b	Important International Days	Match the pair		
60	d	Performance Grading Index (PGI)	Current Affairs		
61	d	Case Based Question	Indian Cinema		
62	b	The UN 2023 Water Conference	Current Affairs		
63	c	Tomb of Sand	Book and Author		
64	b	Garuda Shakti Exercise	military exercise		

Q.No.	Answer Key	Topic's Name	Chapter's Name		
65	с	Inflation	Money and inflation		
66	a	Deflation	Money and inflation		
67	a	The Multidimensional Poverty Index	Current Affairs		
68	b	Structural unemployment	Employment and Unemployment		
69	a	Pradhan Mantri Swasthya Suraksha Yojana	Governmental Programmes		
70	с	Indian National Congress	Struggle for Independence		
71	a	International Relations	Current Affairs		
72	b	SWAYAM programme	Governmental Programmes		
73	с	Ministry of Home Affairs	Functions of Various Department		
74	b	Discretionary powers of President	Constitution of India		
75	b	Northern Zonal Council	Zonal councils of India		
76	d	The Kushan Empire	Ancient India		
77	b	'Theris'	Buddhism		
78	b	'Seva Samiti'	Organisation and founder		
79	d	Treaty of Salbai	The First Anglo-Maratha War		
80	b	Battle of Colachel	Battle in Indian History		
81	a	Rampa rebellion of 1879	Struggle for Independence		
82	b	FIFA World Cup	Sports		
83	b	City of Joy	Book and Author		
84	с	Champions of the Earth award	Award/Prize		
85	b	Theme of G-20 Summit	G - 20		
86	d	"Surya Kiran"	Joint Military Exercise		
87	d	Greenwich time zone	Time Zone		
88	b	'Gas planets'	Solar System		
89	d	Characteristics of Black soil	Type of Soil		
90	С	Generation of Electricity	Thermal Power Plant		
91	a	The Indus basin	The River Basin in India		
92	с	Solicitor General of India	The Functions of Government		
93	с	The Estimates Committee	Parliament of India		
94	a	Election of the President	Constitution of India		
95	a	The Citizenship Act, 1955	Constitution of India		
96	с	National Multi dimensional Poverty Index	General Knowledge		
97	a	Kakatiya dynasties	Indian Ancient History		
98	d	Kudumiyamalai Location	Indian Ancient History		
99	С	Trade policy of East India Company	Modern History		
100	a	'Dadni' system	History of textile production in India		
101	с	Kanaganahalli archaeological site	Archaeological site in India		
102	С	Features of Volcanoes	Volcanoes		
103	b	Characteristics of cumulonimbus clouds	Types of Clouds - Water in Atmosphere		

Q.No.	Answer Key	Topic's Name	Chapter's Name	
104	с	Bar Chart	Presentation of data	
105	b	Longest coastline of Gujarat	Indian costal States	
106	b	True or False Type Question	Type of Ports in India	
107	b	Forest covers area in India	Forest in India	
108	b	Vocational Course in NEP - 2020	New Education Policy - 2020	
109	a	The SDG India Index	Current Affairs	
110	d	Article - 51	Constitution of India	
111	d	The core leaders of NAM	Non-aligned Movement	
112	С	Balutedar system	History	
113	a	Summer capital of the British Empire	Colonial Rule in India	
114	a	Maze Vidyapeeth	Book and Author	
115	a	Hindu Dharma Sabha	Organisation and Founder	
116	c	The International Year of Millets	Day/Organisation/Celebration	
117	С	T20 Internationals	Sports	
118	С	Wassenaar Arrangement	Organisation and Founder	
119	c	P.T Usha	Sports	
120	с	Match Book with Author	Book and Author	





General Knowledge

ANSWERS WITH EXPLANATION

1. Option (a) is correct.

Explanation: A muscle cramp is a temporary, involuntary spasm of the skeletal muscle that can occur in a wide range of situations. The build-up of lactic acid in muscles is the primary factor behind cramps that develop during or soon after exercising or running. The shortage of oxygen supply and the excessive energy demand are the major causes. Thus, anaerobic respiration occurs in the muscle cells to meet the requirement for energy. Consequently, lactic acid is produced in muscles as a result of the anaerobic breakdown of glucose, which eventually causes cramps.

2. Option (a) is correct.

Explanation: To determine the presence of starch in a leaf, it is first plucked from a plant on a sunny day and placed in boiling water for 2 minutes. This procedure will result in the death of its leaf cells. It is then boiled in alcohol, which aids in the extraction of chlorophyll and the removal of the green colour of the leaves. The iodine solution is now utilized to complete the final stage. When iodine is applied to the leaf, it turns blue-black because iodine is an indicator that produces this colour when starch is present. When it was exposed to light, the plucked leaf turned blue-black, indicating that it had been performing photosynthesis and making starch.

3. Option (d) is correct.

Explanation: RBCs, or erythrocytes, are components of human blood. RBCs intracellular fluid contains a solution of salts, glucose, protein, and haemoglobin. When red blood cells (RBCs) are isolated and diluted in

normal saline (an isotonic solution to blood), i.e., 0.9% NaCl solution, there is no change in RBCs diameters. As both the intracellular and extracellular fluids are in osmotic equilibrium across the cell membrane. Therefore, there will be no net influx or efflux towards the solution or the cell.

On the other hand, a solution influx happens when RBCs are placed in a hypotonic environment, such as 0.4% NaCl solution or distilled water. The cells swell, and their membrane integrity is disrupted.

RBCs lose their normal shape and undergo collapse when exposed to hypertonic solutions, such as 1.8% NaCl. This causes the cells to shrink as a result of a rapid osmotic outflow of water.

4. Option (a) is correct.

Explanation: The liver cells produce bile, a complex aqueous secretion. It passes through the hepatic duct and is stored and concentrated in the gall bladder, a small muscular sac. Bile pigments (bilirubin and biliverdin), bile salts, cholesterol, and phospholipids are all present in this bile juice, which is secreted in the duodenum, but enzymes are absent. The pH of the stomach's acidic chyme is neutralized when bile mixes with it. It is also used to emulsify fat so that it is reduced in size to micelles, which are small fat globules that are easy to digest. Also, the bile is alkaline by nature, which is necessary for the pancreatic enzymes to activate.

5. Option (a) is correct.

Explanation: Blood pressure is the pressure within the body's major arterial system,

measured in millimeters of mercury. Blood pressure is commonly separated into systolic and diastolic measurements and is commonly expressed as the systolic pressure over the diastolic pressure (e.g., 120/80 mm Hg). Systolic pressure is the maximum blood pressure recorded during ventricles contraction; diastolic pressure is the minimum pressure recorded just prior to the next contraction, or we can say that, it is the pressure of the blood during the ventricular relaxation.

6. Option (d) is correct.

Explanation:

 $t = 5 \mathrm{s}$

v = 340 m/s

 $2D = v \times t$

 \Rightarrow 2D = 340 × 5 = 1700

 \Rightarrow D = 1700/2 = 850 m

2D is the distance covered by sound from observer to cliff and cliff to observer.

7. Option (d) is correct.

Explanation: Microphone converts sound energy to electrical energy and speaker converts electrical energy to sound energy. Therefore statement 2 and 4 are correct.

8. Option (a) is correct.

Explanation: Given,

$$P = 100 W = 0.1 kW$$

 $t = 10 \times 3 = 30 h$

Energy consumed = P * t

 $= 0.1 \times 30 \text{ kWh} = 3 \text{ units} (\because 1 \text{ kWh} = 1 \text{ unit})$

9. Option (b) is correct.

Explanation: Area under velocity time graph gives the net displacement

10. Option (c) is correct.

Explanation:

$$f = 10 \text{ cm} = 0.1 \text{ m}$$

$$P = \frac{1}{f} = 1/0.1 = 10 D$$

11. Option (d) is correct

Explanation:

$$2Mg + O_2 \rightarrow 2MgO$$

Here the reaction of magnesium takes place in presence of oxygen to undergo addition reaction to form magnesium oxide. During the process, heat and light are also produced hence statement 1, 2 and 3 are correct.

12. Option (c) is correct.

Explanation: Statement 2 is correct— The solution of slaked lime is used for white washing of walls.

Statement 3 is correct – CaO reacts slowly with CO_2 in air to form a thin layer of $CaCO_3$ on walls.

13. Option (d) is correct.

Explanation:

$$2Pb(NO_3)_2 \xrightarrow{\Delta} 2PbO + 2NO_2 + O_2$$

The thermal decomposition of lead nitrate gives rise to lead oxide, nitrogen dioxide and oxygen.

Here colourless O_2 gas is released along with the formation of NO_2 gas. The brown colored fumes are of nitrogen dioxide.

14. Option (b) is correct.

Explanation: Oxidation reaction is the reaction in which the following process takes place

- (1) loss of electron
- (2) Removal of hydrogen
- (3) Addition of oxygen

Rusting of iron — oxidation

Opening of soda bottle — physical process

Rancidity — oxidation

Combustion — oxidation

15. Option (c) is correct.

Explanation: The given clues hint at the state of Assam. The state of Assam is known as the Land of the Red River and Blue Hills due to its stretching across the Brahmaputra valley. It is one of the biggest states in the North East of India and contains three of the six physiographic divisions of India - The Northern Himalayas, The Northern Plains, and Deccan Plateau. It has a geographical area of 78,438 km² making up 2.39 percent of the country's total area.

16. Option (d) is correct.

Explanation: Telangana, which is the 29th state of India, was formed on June 2, 2014. Telangana, shares its borders with Maharashtra, Chhattisgarh, Andhra Pradesh,

and Karnataka. The Telangana region was part of the Hyderabad state from 17th September 1948 to 1st November 1956, until it was merged with Andhra State to form Andhra Pradesh.

17. Option (b) is correct.

Explanation: Loktak Lake is a freshwater lake located at Moirang in Manipur. Umiam Lake is a reservoir located in the hills 15 km to the North of Shillong in the state of Meghalaya, India. Kolleru Lake is the largest freshwater lake and is located in Andhra Pradesh. Pulicat Lake is the second largest brackish water lagoon in Tamil Nadu. So, Rani visited the states of Manipur, Meghalaya, Andhra Pradesh, and Tamil Nadu.

18. Option (b) is correct.

Explanation: The 2011 Census of India was the 15th Census. The decennial Census of India has been conducted 16 times, as of 2021. While it has been undertaken after every 10 years, the first complete census was taken in 1881 in India. According to Census 2011, a literate person is one who is 7 years old and can read and write in any language with understanding. Literacy is a step towards education and if one fails in this basic step then it becomes difficult to be educated.

19. Option (b) is correct.

Explanation: The Tropic of Cancer passes through 2 coastal and 6 landlocked states of India. These 8 Indian states are Gujarat, Rajasthan, Madhya Pradesh, Chattisgarh, Jharkhand, West Bengal, Tripura, and Mizoram. Gujarat and West Bengal are the coastal states; the rest are landlocked states.

20. Option (a) is correct.

Explanation: Inflation is the rate of increase in prices over a given period of time. When the aggregate demand in an economy strongly outweighs the aggregate supply, prices go up. This is the most common cause of inflation. Aggregate demand is the amount of total spending on domestic goods and services in an economy. Inflation is the decrease in the purchasing power of a currency.

21. Option (d) is correct.

Explanation: Expansionary fiscal policy causes an increase in GNP, an appreciation of the currency. The expansionary fiscal policy raises the domestic interest rate, thus causing a sudden appreciation in the exchange rate. A contractionary monetary policy, by driving up domestic interest rates, would cause the currency to appreciate. Thus, it is concluded that contractionary monetary policy and expansionary fiscal policies help to raise interest rate unambiguously and thereby lead to appreciation of currency.

22. Option (a) is correct.

Explanation: The crowding-out effect refers to an economic theory that states that rising interest rates decrease initial private total investment spending.

The government sometimes adopts an expansionary fiscal policy and increases its spending to boost economic activity. This leads to an increase in interest rates. Increased interest rates affect private investment decisions.

23. Option (a) is correct.

Explanation: Allocation of funds at National and State levels is not an objective of Niti Aayog. The NITI Aayog serves as the apex public policy think tank of the Government of India. The important objectives of the NITI Aayog are following –

To propose strategic and long-term policy and programme frameworks and initiatives, and review their progress and their effectiveness.

To grant advice and encourage partnerships between important stakeholders and national-international Think Tanks.

To evolve a shared vision of national development priorities, sectors and strategies with the active involvement of States. Thus, it is concluded that only option 3 is the objective of NITI Aayog.

24. Option (b) is correct.

Explanation: The Tendulkar Committee was constituted in 2009 to review methodology for poverty estimation and to address shortcomings of the previous methods.

The Committee recommended using Mixed Reference Period based estimates, as opposed to Uniform Reference Period based estimates, for the computation of poverty in terms of Monthly Per Capita Consumption Expenditure (MPCE).

25. Option (c) is correct.

Explanation: The National Skill Development Mission was developed to create convergence across sectors and states in terms of skill training activities. This mission was launched by the government of India in 2015 on the occasion of World Youth Skills Day. Seven sub-missions were proposed initially to act as building blocks for achieving overall objectives of the Mission. They are: (i) Institutional Training, (ii) Infrastructure, (iii) Convergence, (iv) Trainers, (v) Overseas Employment, (vi) Sustainable Livelihoods, (vii) Leveraging Public Infrastructure. Thus, it is concluded that option c is correct.

26. Option (c) is correct.

Explanation: In 2018, POSHAN Abhiyaan was launched with an aim to achieve improvement in nutritional status of children under 6 years, adolescent girls, pregnant women and lactating mothers in a time bound manner. It addresses malnutrition issues across the nation through components like ICT application, community mobilization, convergence, behavioural change & jan andolan, and so on.

27. Option (c) is correct.

Explanation: The writ of Certiorari means "to be certified". It can be issued by the Supreme Court or the High Court of India to quash or cancel an order already passed by a lower court.

The Supreme Court can also use it to transfer a particular matter to it or some other superior judicial authority for consideration.

The following are the essential conditions for the writ of Certiorari:

There has to be an existence of an officer or a tribunal having the judicial authority to decide on the cases affecting the rights of people.

Such an officer or the tribunal must have acted-

- (1) in excess of judicial power, or
- (2) without requisite jurisdiction, or
- (3) in violation of the principles of natural justice.

28. Option (a) is correct.

Explanation: Justice H. L. Dattu is a former Chief Justice of India and the former chairman of the National Human Rights Commission. In December 2014, he had issued a notification to set up a special Bench known as the Social Justice Bench.

Its objective was to deal with matters in the domain of 'social justice' that had been pending with the Supreme Court for several years.

29. Option (d) is correct.

Explanation: The book Bandi Jeevan was written by Sachindra Nath Sanyal. He was an Indian revolutionary and co-founder of the Hindustan Republican Army. He was sentenced to life-term imprisonment for his involvement in the Ghadar conspiracy. He was imprisoned at Cellular Jail in the Andaman and Nicobar Islands, where he wrote his book, titled Bandi Jeevan, in 1922.

30. Option (a) is correct.

Explanation: As mandated by the Government of India Act 1935, provincial elections were held in British India in the winter of 1936-37. Punjab and Sind were two provinces where the Indian National Congress was not able to emerge as the single largest party while it emerged in power in eight of the provinces.

31. Option (c) is correct.

Explanation: The Indian National Army was first formed in 1942 under Rash Behari Bose. The army was created out of Indian POWs of the British Indian Army captured by Japan in the Malayan campaign and at Singapore. Later on, Rash Behari Bose handed over INA to Subhas Chandra Bose. He named regiments of INA after Mahatma Gandhi, Jawaharlal Nehru, Maulana Azad, and himself. An allwomen regiment named after Rani of Jhansi, Lakshmibai was also created.

32. Option (c) is correct.

Explanation: The bhakti saints can be broadly classified into two streams- the Alvars and Nayanars. The Alvars were the Tamil poetsaints of South India who espoused bhakti (devotion) to the Hindu preserver deity Vishnu while the Nayanars expressed devotion to Shiva.

33. Option (d) is correct.

Explanation: Krishna and Tungabhadra rivers flow in the region between Gulbarga and Vijayanagara Hampi. The Tungabhadra River starts and flows through the state of Karnataka in India. The river Krishna rises in western Maharashtra state in the Western Ghats range near the town of Mahabaleshwar.

34. Option (b) is correct.

Explanation: Assam Rifles is the only paramilitary force with a dual control structure. It is under administrative control of Home Ministry, but its operations are under control of Indian Army which comes under Defence Ministry. This means that salaries and infrastructure for the force is provided by the Home Ministry, but the deployment, posting, transfer and deputation of the personnel is decided by the Defence Ministry.

35. Option (c) is correct.

Explanation: Ahom is an ethnic community of Assam. Members of this group are mixed descendants of the Tai people who arrived in Assam's Brahmaputra valley in 1228 and the local indigenous people who joined them over time. The Ahom dynasty was established by Sukaphaa, a Shan prince of Mong Mao (present-day Yunnan, China) who came to Assam after crossing the Patkai Mountains. Today, most of the Ahoms declare Hinduism as their religion, but there is an effort going on to revive the traditional Ahom religion.

36. Option (d) is correct.

Explanation: The Zimbabwe national cricket team, also known as the Chevrons has got its name from the stone monument, which is called the Great Zimbabwe. Zimbabwe is a landlocked country in Southern Africa known for its dramatic landscape and diverse wildlife.

37. Option (d) is correct.

Explanation: Eight Cheetahs from Namibia were released in the Kuno National Park of Madhya Pradesh in 2022. Cheetah was officially declared extinct in India in 1952 and the last cheetah was killed in 1947. The introduction of Cheetah in India is being done under Project Cheetah.

38. Option (c) is correct.

Explanation: From the given options, Klaus Hasselmann is not a recipient of the Nobel Prize in Physics in 2022. The Nobel Prize in Physics for 2022 was awarded to John F. Clauser, Alain Aspect and Anton Zeilinger for their work in quantum mechanics by the Royal Swedish Academy of Sciences.

39. Option (a) is correct.

Explanation: A reflex arc is a neuronal pathway that regulates the action of a reflex. It starts with a sensory neuron at a receptor and ends with a motor neuron at an effector. For instance, when we inadvertently touch something hot, the temperature change is first noticed by the receptor (fingertip), which initiates an impulse in a sensory neuron. This travels to the spinal cord, where it passes through a synapse to a connected neuron called the relay neuron, which is located in the spinal cord. Further, the impulse is transmitted to the brain and then to the motor neurons, which then send the impulse to the muscles of the limb (effector), causing them to contract and draw away from the hot object.

40. Option (d) is correct

Iodine is essential for thyroid gland to make thyroxin. The thyroxine is a hormone produced by the thyroid gland, which aids in several vital metabolic processes such as digestion, circulation, brain development, etc. The thyroid gland picks up the iodine from the diet and uses this element for thyroxine synthesis.

41. Option (d) is correct.

Explanation: In plant cells, RNA can be found at various locations, including the nucleus, mitochondria, chloroplasts, ribosomes, and cytoplasm. There are three types of RNA: mRNA, tRNA, and rRNA. The cytoplasm contains mRNA and tRNA, while the nucleus has rRNA.

Ribosomes can be found in the cytoplasm of a cell or attached to the endoplasmic reticulum. The interaction of RNA and ribosomes results in protein production.

A polyribosome, or polysome, is formed when several ribosomes connect to a single mRNA. The ribosomes of a polysome translate the mRNA into proteins.

42. Option (c) is correct.

Explanation: In grass (a monocotyledonous plant), the intercalary meristems are located at the internodes or the base of the leaves. These meristems help in increasing the length of the internode and thereby promote the growth of the plants. On the other hand, apical meristems are located at the tip of the root, stem, etc. They help in the growth of the stem and the root. The lateral meristems are present on the lateral side of the stem and root of a plant. The girth of the stem or root increases due to these meristems.

43. Option (c) is correct.

Explanation: The xylem is an example of complex tissue (made up of more than one type of cell), which mainly helps in the transportation of water and minerals throughout the plant. Xylem is composed of four different kinds of elements, i.e., tracheids, vessels, xylem parenchyma, and xylem fibres. Out of all these four elements, the xylem parenchyma consists of living cells. They help in the storage of starch and fat and also assist in the short-distance transportation of water. On the other hand, tracheids and vessels are the main conducting tissues that allow the transport of water and minerals vertically. Xylem fibres help in water transportation and also provide mechanical support to plants.

44. Option (d) is correct

Explanation:

Given,
$$R_1 = 11 \Omega$$
, $R_2 = 22 \Omega$, $R_3 = 33 \Omega$

$$\frac{1}{R_e} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_e} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} = \frac{6+3+2}{66}$$

$$\frac{1}{R_e} = \frac{11}{66} = \frac{1}{6}$$

$$R_e = 6 \Omega$$

45. Option (b) is correct.

Explanation: The r.m.s potential difference between the line wire (Red) and neutral wire (Black) in indian domestic electric supply is 220V.

46. Option (a) is correct.

Explanation:

The hydrogen bomb is based on the principle of uncontrollable nuclear fusion while the uranium bomb is based on the principle of nuclear fission.

47. Option (a) is correct.

Explanation: Sound wave is standing wave which is longitudinal in nature in which the direction of movement of particle is along the direction of wave propagation. Light waves are transverse in nature because the direction of electric field and magnetic field is perpendicular to the direction of propagation of light.

48. Option (a) is correct.

$$u = 12 \text{ m/s}$$

 $a = -6 \text{ m/s}^2 \text{ (Retardation)}$
 $t = 2 \text{ s}$
 $S = ut + 1/2 at^2$
 $= 12 \times 2 - 1/2 \times 6 (2)^2$
 $= 24 - 12 = 12 \text{ m}$

49. Option (a) is correct.

Explanation: The chemical composition of a soda-acid type fire extinguisher is the solution of sodium hydrogen carbonate and sulfuric acid. The reaction of sodium hydrogen carbonate and sulfuric acid gives rise to carbon dioxide which cuts off the supply of air and extinguish the fire.

$$2NaHCO_3 + H_2SO_4 \longrightarrow Na_2SO_4 + H_2O + CO_2$$

50. Option (c) is correct.

Explanation: The dilution of concentrated nitric acid solution decreases the concentration of $[H_3O^+]$ ions/Volume.

When a concentrated acid is added to water for preparing a dilute acid, then the heat is evolved gradually and easily absorbed by the large amount of water (to which the acid is being added).

51. Option (d) is correct.

Explanation: Lemon juice and coffee are acidic substance while blood and milk of magnesia are basic substance.

The correct order of pH of the given substances-Lemon juice < Coffee < Blood < Milk of magnesia

52. Option (c) is correct.

Anodizing process is the process in which the metal that needs to be electroplated is formed as anode.

Here option (c) is not correct because aluminium metal acts as anode but no oxygen gas is evolved at the cathode.

53. Option (a) is correct.

Explanation: Being unsaturated hydrocarbon, the ratio of carbon to hydrogen is low it burns with a yellow sooty flame.

54. Option (a) is correct.

Explanation:
$$Fe_2O_3 + 2Al \longrightarrow Al_2O_3 + 2Fe$$

here Al act as reducing agent while Fe_2O_3 acts as an oxidizing agent.

The above process is called thermite reaction and large energy is released which is utilised in welding purpose.

55. Option (c) is correct.

Explanation: Vicky told his friends about his visit to Stewart Island, Bay of Plenty and Hawke's Bay which are situated in New Zealand. Stewart Island is New Zealand's third largest island. The Bay of Plenty is a large bight along the northern coast of the North Island of New Zealand, while Hawke's Bay is a local government region on the east coast of New Zealand's North Island.

56. Option (c) is correct.

Explanation: World Heritage Sites are cultural and natural sites considered to be of outstanding value to humanity. As of January 2023, a total of 1,157 World Heritage Sites exist across 167 countries. Delhi has a rich historical and cultural background owing to the numerous invasions that took place in this region. If Manav is planning to visit all UNESCO World Heritage Sites in Delhi, he will be visiting at Red Fort, Qutab Minar, and Humayun Tomb. Red Fort was built by Shah Jahān in the mid-17th century and remains a major tourist attraction. The fort was designated a UNESCO World Heritage site in 2007. Qutab Minar was added to the list of World Heritage Site by UNESCO in 1993. Humayun Tomb was built in 1570 is the first garden-tomb on the Indian subcontinent and was declared a UNESCO World Heritage Site in 1993.

57. Option (d) is correct.

Explanation: The correct sequence of cities on the bank of river Ganga if someone moves from west to east is Kanpur, Prayagraj, Patna, Bhagalpur.

58. Option (d) is correct.

Explanation: Chhattisgarh has the longest extension in north-south direction. The northern and southern parts of the state are hilly, while the central part is a fertile plain. The highest point in the state is the Gaurlata near Samri, Balrampur - Ramanujganj district.

59. Option (b) is correct.

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

List-I			List-II	
A	World Wetlands Day	3	2 February	
В	International Tiger Day	1	29 July	
С	World Water Day	4	22 March	
D	International Mother Earth Day	2	22 April	

60. Option (c) is correct.

Explanation: Six states and one Union Territory

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have attained the best rating of Level 2 (L2) in Union Education Ministry's Performance Grading Index (PGI) 2020-21. These are Andhra Pradesh, Kerala, Maharashtra, Punjab, Chandigarh, Rajasthan and Gujarat. No state has been able to attain the highest level of L1 so far.

61. Option (d) is correct.

Explanation: Asha Parekh is an Indian actress, director, and producer. She was one of the top actresses in Bollywood from the late 1950s to 1970s. She is also an accomplished Indian classical dancer. In 1992, she was honoured with the Padma Shri for her contribution to the field of cinema. She was awarded the Dadasaheb Phalke Award in 2020.

62. Option (b) is correct.

Explanation: The UN 2023 Water Conference was held between 22nd to 24th March in New York. The first water conference was held in 1977 in Mar de Plata, Argentina. It was held after a gap of 46 years on the theme "Our watershed moment: uniting the world for water."

63. Option (c) is correct.

Explanation: Both the given statement is true regarding Tomb of Sand. Tomb of Sand is a 2018 Hindi-language novel, written by Indian author Geetanjali Shree. This book became the first novel translated from an Indian language (Hindi) to win the International Booker Prize. Tomb of Sand is a novel about a depressed 80-year-old woman.

64. Option (b) is correct.

Explanation: The eighth edition of the Exercise Garuda Shakti, a bilateral military to military exercise, was conducted recently between the special forces of India and Indonesia that commenced on 21 November 2022. It seeks to boost understanding, cooperation, and interoperability between the special forces of Indian and Indonesian armies.

65. Option (b) is correct.

Explanation: Inflation is an increase in the general price level of goods and services in an economy. Following are the measure that can be taken to control inflation:

There is a close link between the money supply and inflation. If RBI reduces the money supply in the market, people would be having less money to spend. This can be done by increasing repo or bank rates.

When repo rate is increased, rate of interest on savings and fixed deposits is also increased, which encourage people to save money rather than spending it. This eventually will lead to decrease in supply of money which in turn decrease the demand and decline in prices.

66. Option (a) is correct.

Explanation: The sustained decrease in the general price level is called as deflation. Deflation harms a country and its economy since a company's or business's revenue will drop due to deflation. This results in a large number of layoffs of employees and rising unemployment rates. A decrease in aggregate demand, a decrease in money flow, an increase in aggregate supply, monetary policy, and technological advances can all cause deflation.

67. Option (a) is correct.

Explanation: The National MPI is India's equivalent of the Global Multidimensional Poverty Index developed by the NITI Aayog. The Baseline Report of MPI is based on the National Family Health Survey (NFHS) 4 taken up during 2015-16.

Across three dimensions of health, education and standard of living, it includes indicators on nutrition, child and adolescent mortality, maternal care, years of schooling, school attendance, cooking fuel, sanitation, drinking water, electricity, housing, bank accounts and assets.

68. Option (b) is correct.

Explanation: The unemployment that occurs due to changes in the technology or in the demand for particular products is called Structural unemployment. It is a longer-lasting form of unemployment caused by fundamental shifts in an economy. Structural unemployment occurs when certain industries

decline because of long term changes in market conditions. If there is complete change in a business set up, some workers are removed from their jobs this is structural employment. This type of unemployment is long run in nature.

69. Option (a) is correct.

Explanation: Correcting regional imbalances in the availability of tertiary health care services and augmenting facilities for quality medical education in the country are the objectives of the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY). It was announced in 2003 with an aim to develop capacities of primary, secondary, and tertiary care health systems even in the last miles of the nation, and developing a modern ecosystem for research, testing and treatment in the country itself.

70. Option (c) is correct.

Explanation: Mahatma Gandhi (M.K Gandhi) suggested the dissolution of the Indian National Congress as a political organization and its replacement by a Lok Sevak Sangh. He suggested the winding up of the party after India attained independence, as its main aim was to fight for Indian independence.

71. Option (a) is correct.

Explanation: In 2007, India became the first country to deploy an all-women contingent to a UN peacekeeping mission. India sent the first all-female Central Reserve Police Force (CRPF) contingent to Liberia as part of the United Nations Mission in Liberia (UNMIL).

72. Option (b) is correct.

Explanation: SWAYAM stands for Study Webs of Active Learning for Young Aspiring Minds. This programme is designed by Government of India to achieve the three cardinal principles of Education Policy viz., access, equity and quality. There are the 4 quadrants of SWAYAM programme:-

- Video lecture
- Specially prepared reading materials that can be downloaded

- online discussion forum for clarifying doubts
- Time to time assessment by experts.

Thus, a classroom lecture is not a part of the SWAYAM programme.

73. Option (c) is correct.

Explanation: From the given options, the National Authority Chemical Weapons Convention is not under the Ministry of Home Affairs. This wing was transferred during 1991 to the Ministry of Defence. It was established on 29 April 1997 by a resolution of the Cabinet and was later accorded a statutory status through Chemical Weapons Convention Act, 2000. There are a total of six departments under the Ministry of Home Affairs. These are - Department of Official Languages, Department of Internal Security, Department of Border Management, Department of Home, Department of States, Department of Jammu, Kashmir, and Ladakh Affairs. The Ministry of Home Affairs is mainly responsible for the maintenance of internal security and domestic policy.

74. Option (b) is correct.

Explanation: Under Article 244(1) of Fifth Schedule of the Constitution of India, the Tribes Advisory Councils (TAC) shall be established in each State having Scheduled Areas therein and, if the President so directs, also in any State having Scheduled Tribes but not Scheduled Areas therein.

75. Option (b) is correct.

Explanation: Zonal Councils are the statutory bodies which are established by an Act of the Parliament, that is the States Reorganisation Act of 1956. There are total five zone like - Northern, Central, Eastern, Western and Southern zone. The Northern Zonal Council comprises with the states and union territories of Chandigarh, National Capital Territory of Delhi, Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Ladakh.

76. Option (d) is correct.

Explanation: The Kushan Empire was a syncretic empire, formed by the Yuezhi, in the Bactrian territories in the early 1st century. The notion of kinship projected by the Kushana rulers is best evidenced through coins and sculpture. The term kingship refers to a relatively complex and hierarchical structure of society in which a central figure, a king or, in certain cases, a queen- undertakes a unifying role that acts as a value reference for the various groups that constitute the society.

77. Option (b) is correct.

Explanation: Elder nuns in Buddhism were referred to as the 'Theris' in ancient India. 'Theri' refers to elderly women, though Susan Murcott argues that it refers to distinguished women (nuns) of wisdom and character. The Therigatha (verses of old women) is a collection of 73 poems written by Buddhist nuns over a period of 300 years.

78. Option (b) is correct.

Explanation: Hridayanath Kunzru founded the 'Seva Samiti' at Allahabad in 1914. It has an objective of Improving the status of the suffering classes through social service, and education. H. N. Kunzru joined the Servants of India Society in 1909 and became its life President in 1936.

79. Option (d) is correct.

Explanation: The First Anglo-Maratha War was concluded by the Treaty of Salbai which was signed in 1782. The First Anglo-Maratha War (1775–1782) was the first of three Anglo-Maratha Wars fought between the British East India Company and Maratha Empire in India. The Treaty of Salbai was signed between Warren Hastings and Mahadaji Sindhia. Some of the provisions of the Treaty of Salbai were: The whole of the territory conquered since the Treaty of Purandhar (1776) including Bassein should be restored to the Marathas.

The English should not offer any further support to Raghunathrao and the Peshwa should grant him a maintenance allowance.

80. Option (b) is correct.

Explanation: The Battle of Colachel was fought between the Kingdom of Travancore and the Dutch East India Company in August 1741. Marthanda Varma won the Battle of Colachel against the Dutch. The Dutch never recovered from the defeat and no longer posed a large colonial threat to India.

81. Option (a) is correct.

Explanation: Rampa rebellion occurs during 1879 to 80 in which the Koya and Konda tribal chiefs rise against the local overlord from a Mansabdar family. It was a tribal uprising against the British in the hill tracts of Vishakhapatnam against the oppressions of a Zamindar.

82. Option (b) is correct.

Explanation: Brazil won the FIFA World Cup (Men) for maximum number of times. Brazil has won the title a record five times- 1958, 1962 1970, 1994 and 2002. Brazil, is the only team that has participated in every World Cup.

83. Option (b) is correct.

Explanation: Dominique Lapierre is the author of the famous novel, City of Joy. It was adapted as a film by Roland Joffé in 1992. Dominique Lapierre was a French author who awarded with the Padma Bhushan by President of India on 5th May 2008. 'City of Joy' became an international best seller in 1985.

84. Option (c) is correct.

Explanation: Champions of the Earth award is an annual award accorded for transformative action to prevent, halt and reverse ecosystem degradation. Purnima Devi Barman is a wildlife biologist from Assam, and was honoured with the UN Environment Programme's 2022 Champions of the Earth Award in the Entrepreneurial Vision category. She is the founder of the Hargila Army, an all-female conservation initiative dedicated to protecting the Greater Adjutant Stork from extinction.

85. Option (b) is correct.

Explanation: India assumed the G20 Presidency on the 1st of December 2022 from Indonesia and it will hold the presidency for a year. The theme of India's G20 Presidency Vasudhaiva Kutumbakam' or 'One Earth- One Family- One Future' is drawn from the Maha Upanishad.

86. Option (d) is correct.

Explanation: Surya Kiran Exercise is the joint military Exercise that is held between India and Nepal bilaterally. The 16th edition of Indo-Nepal annual joint training exercise in jungle warfare and counterterrorism operations was held in 16th December to 29th December 2022 at Nepal Army Battle School, Saljhandi.

87. Option (d) is correct.

Explanation: As given, Time at GMT = 10 am. The place is situated at 90° East longitude. From the above concept, we know that 1° East longitude = 4 minutes ahead. As it is going towards East the time will be added to the GMT. So at 90°E longitude the time will be 4 pm.

88. Option (b) is correct.

Explanation: Gas giants are large planets composed primarily of gases, such as hydrogen and helium, with a relatively small rocky core. Jupiter, Saturn, Uranus and Neptune are the four gas giants of our solar system. These four are also called as Jovian planets.

89. Option (a) is correct.

Explanation: The following are the characteristics of the Alluvial Soil:

- The alluvial soil consists of various proportions of sand, silt and clay.
- The soil can be classified as old alluvial (Bangar) and new alluvial (Khadar) according to its age.
- Alluvial soils as a whole are very fertile and contain adequate proportion of potash, phosphoric acid and lime.

90. Option (c) is correct.

Explanation: Both the statements are correct regarding generation of electricity. Thermal power generation consists of using steam power created by burning oil, liquid natural

gas, coal, and other substances to generate electricity. The burning of fuels such as oil, coal and LNG (liquefied natural gas) fires a boiler to generate high-temperature, high-pressure steam, which goes through a turbine, which spins and turns, generating electricity.

91. Option (a) is correct.

Explanation: The Indus basin extends over China (Tibet), India, Afghanistan and Pakistan draining an area of 11, 65,500 Sq.km. In India, Indus river basins are extended up to Ladakh, Jammu and Kashmir, Himachal Pradesh and Punjab.

92. Option (c) is correct.

Explanation: The option (c) is incorrect regarding the Solicitor General of India. The post of the SGI is not a constitutional post. The posts of the Solicitor General and the Additional Solicitors General are merely statutory. The Solicitor General of India is subordinate to the Attorney General for India. The SGI is the Government's chief legal advisor and the secondary law officer of the country. The SGI is appointed by the Appointments Committee of the Cabinet.

93. Option (c) is correct.

Explanation: The Estimates Committee does not have members from the Rajya Sabha. It is the largest committee of the Parliament. It has 30 members and all these members are from Lok Sabha. The term of office is one year. A minister cannot be elected as a member of the committee.

94. Option (a) is correct.

Explanation: Option (a) is incorrect regarding the election of the President. According to Article 58 of the Constitution, no person shall be eligible for election as President unless he is a citizen of India, has completed the age of thirty-five years and is qualified for election as a member of the House of the People. That's why any Union Minister shall be eligible for election as the President. A person shall not be eligible for election as President if he holds any office of profit under or the Government of any State.

95. Option (a) is correct.

Explanation: The Citizenship Act, 1955 deals with the determination of citizenship on or after 26th January, 1950. The Act provides for five ways of acquiring citizenship, viz, birth, descent, registration, naturalisation and incorporation of territory.

A person born in India on or after January 26, 1950 but before July 1, 1987 is a citizen of India by birth irrespective of the nationality of his parents.

A person born in India on or after July 1, 1987 is considered as a citizen of India only if either of his parents is a citizen of India at the time of his birth.

96. Option (c) is correct.

Explanation: National Multi dimensional Poverty Index is released by the NITI Aayog. The MPI seeks to measure poverty across its multiple dimensions and in effect complements existing poverty statistics based on per capita consumption expenditure. According to the National Multi dimensional Poverty Index (MPI) constructed by the NITI Aayog, a household is considered deprived if a single member of the household is identified as under-nourished or the body mass index of a woman member, between 15 years and 49 years of age, is below 185 kg/ m2. Thus, it is concluded that, both the statement 1 and 2 is correct.

97. Option (a) is correct.

Explanation: The titles of 'Rayagajakesari' and 'Dayagajakesari' were associated with Kakatiya dynasties. It was a Telugu dynasty that ruled most of eastern Deccan region in present-day India between 12th and 14th centuries. According to Kakatiya inscriptions, the name of the family derives from the name of a place called Kakati but there is another theory which states the family was named after their guardian goddess Kakati, a form of Durga.

98. Option (d) is correct.

Explanation: Kudimiyanmalai is located at a distance of 20 km from pudukkottai district, Tamil Nadu. The existence of the Kudimiyanmalai inscriptions are known from 1904 but it was first noticed by H. Krishnashastri. Later on, in 1970s, the Indian Council of Historical Research (ICHR) compiled inscriptions of each dynasty and brought out a volume. These inscriptions are important not only to historians but also to musicologists. There are more than 100 inscriptions with a highlight of an inscription expressing the grammatical notes of Karnatic/ Carnatic music.

99. Option (c) is correct.

Explanation: In the context of eighteenth century India, the Dastak was the trade permit given to the East India company by Farruksiyar's Farman of 1717. It was mostly issued to European traders by the officials of the East India Company.

100. Option (a) is correct.

Explanation: Dadni System was a system where advances were given as a mark of any business deal. Dadni comes from the Persian word dadan or advance. The Mughal Empire saw significant growth in trade and commerce, and the Dadni system was one of the ways that loans were provided to merchants and craftsmen. Textiles production was primarily associated with 'Dadni' system. Dadni is actually a kind of advance money paid to the merchants related to textiles production.

101. Option (c) is correct.

Explanation: Kanganahalli is an important Buddhist site located on the left bank of the Bhima river in Kalaburagi district in Karnataka. The remains of the excavations site at Kanaganahalli can be dated to between the 1st century BC to the 3rd century AD. The significant discovery of this site was the sculpture of Maurya emperor Ashoka with the label "Rayo Asoka."

102. Option (c) is correct.

Explanation: Volcanoes are Earth's geologic architects. The strength of a volcano is measured by the Volcanic Explosive Index. The Volcanic Explosivity Index (VEI) is a scale that describes the size of explosive volcanic eruptions based on magnitude and intensity. Volcanic soils are rich, deep and fertile and allow intensive agriculture to take place. The verdant splendor and fertility of many farmlands of the North Island of New Zealand are on volcanic soils of different ages. The island of Iceland is a part of the Mid-Atlantic Ridge. Thus, it is concluded that statement 1 and 3 is true.

103. Option (b) is correct.

Explanation: The cumulonimbus cloud, also known as thunderclouds, is a convective cloud or cloud system that produces rainfall and lightning. An anvil cloud is made of ice particles. These frozen particles form in the highest levels of thunderstorms or cumulonimbus clouds.

104. Option (c) is correct.

Explanation: As per the given information, bar chart will be the most suitable for the presentation of preserved data. A bar chart is a diagrammatic way of presentation that presents categorical data with rectangular bars with heights or lengths proportional to the values that they represent. Meena can present the different classification of data like population size and number of services easily in bar chart and she can compare it.

105. Option (b) is correct.

Explanation: Gujarat has the longest coastline in the country which is 1600 km long. Most of it lies on the Kathiawar peninsula.

106. Option (b) is correct.

Explanation: The port of Visakhapatnam is a land locked harbour as it is surrounded by land and the water passage is towards the ocean. The port which is encircled by land from all sides with a water passage towards sea or ocean is termed as land-locked port. Kandla port also known as the Deendayal Port is one

of the tidal ports in India. Tidal port refers to those ports in which the level of water within port varies with the change in the level of water in the oceans. Thus, it is concluded that both 1 and 2 is correct.

107. Option (b) is correct.

Explanation: According to the India State of Forest Report 2021, there is an increase in forest cover area of India between 2011 and 2021. The tree cover has risen from 90,844 sq km in the 2011 assessment to 95,748 sq km as per the 2021 assessment, showing a decadal increase of 4,904 sq km. However, there is a decrease in forest cover area of India during the same period in moderately dense forest (canopy density between 40-70 percent). In the last 10 years between 2011 and 2021, India lost 4.3 percent of the area under moderately dense forests.

108. Option (b) is correct.

Explanation: National Education Policy 2020 focuses on addressing the skill requirements arising due to technological developments. It outlines the vision of a new education system for India. According to NEP 2020, at least 50 percent of the learners through school and higher education system get exposure to vocational education by 2025, which will help students in acquiring various skills to meet the needs of the industries and to improve the quality of education. To achieve this objective, secondary schools will have to collaborate with Industrial Training Institutes (ITIs), Polytechnics, Local Industry, etc. Instead of NGOs, the School Education Boards will be strengthened to carry out the assessment of vocational courses, in collaboration with the industry. Thus, it is concluded that only statement (1) and (2) is correct regarding NEP-2020.

109. Option (a) is correct.

Explanation: The third edition of the SDG India Index and Dashboard 2020–21, which was released by NITI Aayog, has been

comprehensively documenting and ranking the progress made by states and Union Territories towards achieving the Sustainable Development Goals.

Bihar, Jharkhand and Assam were the worst performing states in this year's index.

110. Option (c) is correct.

Explanation: According to Article 51, the State shall make every effort to –

- (a) promote international peace and security.
- (b) maintain just and honourable relations between nations.
- (c) foster respect for international law and treaty obligations.
- (d) encourage the settlement of international disputes through arbitration.

111. Option (d) is correct.

Explanation: From the given options, only Fidel Castro was not in the core leadership of the Non-Aligned Movement (NAM) in its formative phase. The five top leaders like -Sukarno of Indonesia, Jawaharlal Nehru of India, and Josip Broz Tito of Yugoslavia, Gamal Abdul Nasser of Egypt and Kwame Nkrumah of Ghana are the core leaders of the Non-Aligned Movement in its formative phase. Their actions were known as 'The Initiative of Five'. The Non-Aligned Movement was formed during the Cold War as an organization of States that did not seek to formally align themselves with either the United States or the Soviet Union, but sought to remain independent or neutral. It is a forum of 120 countries that are not formally aligned with or against any major power bloc.

112. Option (c) is correct.

Explanation: The Bara Balutedar system was a hereditary system of twelve trades used historically in villages of regions that are now the part of Maharashtra. Balutedar means an occupation provided to a person belonging to a particular village based upon the caste system. Normally, they were village servants and artisans which existed in the Medieval Deccan and Maharashtra.

113. Option (a) is correct.

Explanation: Sir John Lawrence officially declared Simla the summer capital of the British Empire in 1864. Lawrence chose Shimla as the capital of the British Empire as they could not bear the heat and dust of the Indian summers and Shimla lies on the foothills of the Himalayas. After Independence, Shimla became the capital of Punjab and was later named the capital of Himachal Pradesh.

114. Option (a) is correct.

Explanation: Narayan Surve is the author of Maze Vidyapeeth, the famous poem about the life of working class of Bombay. Narayan Gangaram Surve was a Marathi poet emerged as the voice of the subaltern in Marathi poetry in the 1960s. He was a Convener of the Marathi Advisory Board of Sahitya Akademi.

115. Option (a) is correct.

Explanation: The Hindu Dharma Sabha was formed in 19th Century (1830) in Calcutta by Radhakanta Deb. Raja Sir Radhakanta Deb Bahadur was a Bengali reformer and cultural nationalist who dedicated his life to the preservation of orthodox Hinduism. Hindu Dharma Sabha was an orthodox Hindu society, established mainly to counter the ongoing social reform movements led by protagonists such as Raja Ram Mohun Roy and Henry Derozio.

116. Option (c) is correct.

Explanation: The resolution adopted by the United Nations General Assembly on 3rd March, 2021 decided to celebrate the year 2023 as the International Year of Millets. The day stands to provide a unique opportunity to increase global production, ensure efficient processing and consumption, promote a better utilization of crop rotations, and encourage better connectivity throughout food systems to promote millets as a key component of the food basket. Millets can grow on arid lands with minimal inputs and are resilient to changes in climate. The theme for the International Year

of Millets 2023 is "Harnessing the untapped potential of millets for food security, nutrition, and sustainable agriculture".

117. Option (c) is correct.

Explanation: Karthik Meiyappan, who secured hat-trick in the ICC Men's T20 World Cup, 2022, represents United Arab Emirates. The Indian-born Karthik Meiyappan is the first player from an associate team to take a hat-trick against a Test team in men's World Cups. He made his One Day International debut for the UAE in 2019 and also represented the UAE at the 2020 Under-19 Cricket World Cup.

118. Option (b) is correct.

Explanation: The Wassenaar Arrangement is a voluntary export control regime. There are 42 participating nations in the arrangement to exchange information on transfers of conventional weapons and dualuse goods and technologies. India joined the Wassenaar Arrangement in December 2017 as its 42nd participating state. India assumed Chairmanship of Wassenaar Arrangement (WA) Plenary starting from 1st January 2023 for the period of one year. Thus, it is concluded that only option (b) is incorrect.

119. Option (c) is correct.

Explanation: Pilavullakandi Thekkeparambil Usha, popularly known as P. T. Usha is nicknamed as Payyoli Express or Payali Express. She dominated Asian track-and-field events for most of the 1980s, winning 23 medals in all, 14 of which were gold. The Government of India awarded Padma Shri to P.T. Usha in 1985.

120. Option (c) is correct.

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

List – I (Title and Genre)			List – II (Author)		
A	Bhool Satya	4	Manoj Kumar		
	(Short Stories)				
В	Tumadi Ke Shabd	3	Badri		
	(Poetry)		Narayan		
С	Chhe Roopak (Drama)	2	Veena Gupta		
D	Alekhun Amba (Play)	1	Kamal Ranga		