

1. Tata Motors has recently unveiled India's first Bio-CNG (bio-methane) bus. Chemically, bio-methane is identical to natural gas; however, natural gas is classified as a fossil fuel, whereas bio-methane is called as a renewable source of energy. This is because

1. Nature of production process of bio-methane reduces its emissions of greenhouse gases into the air.
2. Bio-methane is produced from fresh organic matter, unlike natural gas which is obtained from decomposition of fossils.

Which of the above is/are correct?

- A. 1 only
- B. 2 only
- C. Both 1 and 2**
- D. None

2. What would happen if the Earth stopped spinning immediately?

1. The atmosphere would come to a complete standstill instantly.
2. Objects on top of the earth would be thrown away with great speed.
3. Every spot in the Earth would have permanent daytime or night time all year long.
4. It would freeze in a very short period of time.

Select the correct answer using the codes below.

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

3. With reference to Araghatta or Persian wheels, consider the following statements.

1. It was a water lifting device used to irrigate small fields.
2. Babur Nama mentions the existence and use of Araghatta.
3. There is evidence of the use of Araghatta in Kolar, Karnataka.

Select the correct answer using the codes below.

- A. 1 only
- B. 2 and 3 only
- C. 3 only
- D. 1, 2 and 3**

4. Which of these geographical features is most likely to have the lowest mean elevation?

- A. Plateaus
- B. Islands
- C. Deltas**
- D. Plains

5. With reference to High-yielding varieties (HYVs) crops, consider the following statements.

1. Such crops do not require any reliance on irrigation and fertilizers.
2. Yield can be high in these varieties only if they are allowed to mature later than normal crops.

Which of the above is/are correct?

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. None**

06. What is/are Castor seed plants generally known for?

1. They are a bio-indicator of pollution because they do not grow in areas where groundwater is polluted.
2. They are an exotic species to India, and were introduced by the French.
3. They form components of many cosmetics.
4. High percentage of ricinoleic acid in its residues has anti-microbial properties.

Select the correct answer using the codes below.

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

7. With reference to the International Date Line, consider the following statements.

1. It was established in response to Cold war situations after the Second World War
2. It passes through the mid-Atlantic Ocean
3. It functions as a 'line of demarcation' separating two consecutive calendar dates.
4. It has no legal international status and countries are free to choose the dates that they observe.

Select the correct answer using the codes below.

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

8. Most of the cultivable land in India is owned by

- A. Small and marginal farmers
- B. Medium and Large farmers**
- C. Scheduled tribes
- D. land share is nearly equally divided among all.

09. Rich countries are rich because

- A. All of them have greater reserves of natural resources than any developing country.

B. They have made adequate investment in the health, education and training of their workforce.

- C. All rich nations are democratic.
- D. All of the above.

10. What is 'seaspeak'?

A. Official language of navigators across the globe

- B. A standardized GPS system installed in every marine vessel
- C. A NGO that works towards marine sustainability
- D. SONAR system developed by India that works without the use of electromagnetic waves.

11. Consider the following statements about Malaria and its incidence in India.

1. The majority of malaria reporting districts are in India's eastern and central parts.
2. The Government has set malaria elimination deadline as 2027.
3. Malaria is most commonly transmitted by a male mosquito or female sand-flies. Select the correct answer using the codes below.

- A. 1 and 2 only**
- B. 3 only
- C. 1 and 3 only

D. 2 only

12 With reference to various initiatives of the Ministry of Human Resource Development (MHRD), Consider the following statements.

1. E-pathshala is a single point repository of e-resources such as NCERT text-books and various other learning resources.
2. Padhe Bharat Badhe Bharat focuses on digital literacy.
3. National Reading Initiative intends to organize regular book fairs in major Indian languages.
4. Saransh is an online self-review tool for schools affiliated to the Central Board of Secondary Education (CBSE).

Select the correct answer using the codes below.

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

13 Which of these is the most accurate ratio of MMR and IMR numbers, with respect to India?

- A. Six
B. One by seven
C. One by ten
D. Four

14 Consider the following about Micro plastics.

1. They are small plastic pieces less than a nanometer long.
2. Bureau of Indian Standards (BIS) has classified them as unsafe for consumer products.
3. Microbeads are types of micro plastic that are sometimes found in toothpastes.
4. If dumped in oceans, these pose a potential threat to aquatic life.

Select the correct answer using the codes below.

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

15 In case of India we have unemployment both in rural and urban areas. However, the nature of unemployment differs in both with respect to

1. Year-round availability of employment
2. Disguised unemployment that is more prevalent in urban areas

Which of the above is/are correct?

- A. 1 only**
B. 2 only
C. Both 1 and 2
D. None

16 India had recently decided to celebrate a spiritual practice named Falun Gong, a system that is banned in the country of its origin. The system belongs to

- A. China**
B. Cambodia
C. North Korea
D. Russia

17 Poverty line in India is calculated based on which of these bare minimum parameters?

1. Minimum level of food requirement

2. Clothing and footwear
3. Absence of land ownership
4. Educational and medical requirements
5. Fuel and light

Select the correct answer using the codes below.

- A. 1, 2, 4 and 5 only**
B. 1 and 4 only
C. 2, 3 and 5 only D. 1, 2, 3, 4 and 5

18 Indian Railways (IR) plans to procure several loco sets of Common Rail Electronic Direct Injection Fuel System (CReDI). What is/are the advantages of CReDI over normal engines?

1. Fuel savings
2. Reduced noise in operations
3. Lower emissions

Select the correct answer using the codes below.

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

19 Human Development Report and World Development Indicators are published by which of these organizations respectively?

- A. Both by the United Nations Development Programme (UNDP)
B. UNDP and World Bank
C. World Bank and UNICEF
D. Oxfam and UNECOSOC

20 What is/are the contributions of Amartya Sen to India?

1. He was the Chairman of Nalanda mentor group.
2. He serves as the Director in charge of all Indian Statistical Institutes (ISI).
3. He was awarded Bharat Ratna for his work in welfare economics.
4. He has established Johan Skytte Centre for Political Research in India that receives endowments directly from Harvard University.

Select the correct answer using the codes below.

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

21 Geographically speaking, which of these countries is most likely to have at least three to four time zones?

- A. Countries that stretch extensively from east to west.**
B. Countries located near the sea.
C. Countries that have a large latitudinal stretch.
D. Countries that are located farthest from Greenwich.

22 With reference to agricultural statistics in India, Consider the following statements.

1. The production of foodgrains in India has steadily increased post green revolution since the 1960s.
2. India has presently turned out to host the largest land area certified as organic wildculture in the world.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2

D. None

23 E-GRAINS is an initiative of the

- A. Food Policy Foundation (FPF)
B. Down to Earth

C. Food Corporation of India (FCI)

D. Akshay Patra

24 Assist Focus export promotion programmes have been launched in specific regions abroad by the Government. It includes

1. Africa
2. ASEAN
3. Latin American countries
4. Commonwealth of Independent States

Select the correct answer using the codes below.

- A. 1, 2 and 3 only
B. 2 and 4 only
C. 1 and 3 only

D. 1, 2, 3 and 4

25 From the point of view of commerce, the Atlantic Ocean is the busiest Ocean in the world. This is because

1. It is the largest ocean in the world.
2. It connects major continents.
3. Its coastline is indented that favors formation of natural harbours and ports.

Select the correct answer using the codes below.

- A. 1 and 2 only
B. 3 only

C. 2 and 3 only

D. 1, 2 and 3 only

26 What are the functions and objectives of the National Employment Service (NES)?

1. Compile and disseminate information on vacancies notified on employment in various industries
2. Assessment of demand and supply of labour in the Labour Market and adjust them
3. Provide Career Counselling and Vocational Guidance
4. Generate internal revenue to finance young entrepreneurs in their ventures

Select the correct answer using the codes below.

A. 1, 2 and 3 only

- B. 2 and 4 only
C. 1 and 3 only
D. 1, 2, 3 and 4

27 Which of these authorities approves the sale of government stake in the Public Sector Units (PSUs)?

A. Cabinet Committee on Economic Affairs (CCEA)

- B. Governor, Reserve Bank of India
C. Finance Secretary, Ministry of Finance
D. Department of Industrial Policy and Promotion (DIPP)

28 For his contribution to Indian space technology, he was awarded Padma Bhushan and Padma Vibhushan. He is the first Indian space scientist to be inducted into the prestigious 'Satellite Hall of Fame' and also first in 'International Astronautics Federation (IAF) Hall of Fame'. He is

- A. APJ Abdul Kalam
B. Satish Dhawan
C. G. Madhavan Nair

D. Udupi Ramachandra Rao

29 USS Gerald R Ford, recently seen in news, is

A. World's largest nuclear-powered aircraft carrier

- B. Stealth defence drone that runs entirely on solar power
C. A triad of ballistic, continental and nuclear missiles
D. The smallest submarine in the world that is being used for intelligence operations

30 Global Conference on Cyber Space (GCCS) is the world's largest conference on cyber space and related issues. What is special about the 2017 edition of GCCS?

1. The conference is being hosted by India.
2. This is the first time a GCCS conference is hosted outside OECD nations.

Which of the above is/are correct?

- A. 1 only
B. 2 only

C. Both 1 and 2

D. None

31 Consider the following about the efforts of Ministry of AYUSH to promote Yoga in India and abroad.

1. It has constituted a National Board for Promotion and Development of Yoga & Naturopathy (NBPDPYDYN).
2. It has developed a scheme for voluntary certification of Yoga professionals in association with Quality Council of India (QCI).

Which of the above is/are correct?

- A. 1 only
B. 2 only

C. Both 1 and 2

D. None

32 Which of the following best defines the Biosphere?

- A. It is the upper region of lithosphere.
B. It is the narrow zone where land, water and air come together to contain life forms.
C. It is the lower atmospheric region near the hydrosphere.
D. It is the abiotic component of all forms on earth.

33 Consider the following matches of mountains or mountain ranges with the region they are found in.

1. Mount Kosciuszko: Europe
2. Appalachian Mountains: North America
3. Atlas Mountains: Asia
4. Ural Mountains: Russia

Select the correct answer using the codes below.

- A. 2 and 3 only
B. 1 and 4 only

C. 2 and 4 only

D. 1, 2, 3 and 4

34 With reference to Pradhan Mantri Vaya Vandana Yojana (PMVVY) which is a pension scheme exclusively for senior citizens aged 60 years and above, consider the following statements.

1. Senior citizens will get a market dependent rate of interest.
2. National Securities Depository Limited (NSDL) has been given the sole privilege to operate the scheme.
3. It is exempted from goods and services (GST) tax.
4. The scheme offers loan to senior citizens.

5. It does not allow for premature exit.

Select the correct answer using the codes below.

- A. 1, 2 and 5 only
- B. 2, 3 and 4 only
- C. 3 and 4 only**
- D. 1, 2, 3, 4 and 5

35 An Exchange Traded Fund (ETF)

- 1. Is traded at a fixed price in the market
- 2. Cannot be used to trade commodities
- 3. Must be bought over a futures contract

Select the correct answer using the codes below.

- A. 1 and 3 only
- B. 2 only
- C. 3 only
- D. None of the above**

36. With reference to coronal explosions, consider the following:

- 1. It produces large radiations and particles which may significantly influence the atmosphere of the star.
- 2. It has been observed only in the Sun.
- 3. If the flare from such an explosion reaches earth, it can damage electrical equipment and power grids.

Select the correct answer using the codes below.

- A. 1 and 2 only
- B. 1 and 3 only**
- C. 2 only
- D. 1, 2 and 3

37. Central Counterparty (CCP) is an entity that exists in European countries to

A. Facilitate trading done in derivatives and equities markets

- B. Guard joint borders of European Union
- C. Coordinate defence equipment related export production
- D. Fund mining investments in Least Developed Countries (LDCs)

38 Aajeevika Grameen Express Yojana (AGEY) will leverage

- A. Community monitored rural transport services
- B. Strengths of a Self-help group (SHGs)

C. Both (a) and (b)

- D. None of the above

39 In India, which of these regions have the most developed canal system of irrigation?

- A. Central India
- B. Southern Deccan plateau

C. Northern plains

- D. North-eastern India

40 An Institute of National Importance (INI) is

- 1. Recognized by Government of India
- 2. Any international parent institution of a child institution located in India
- 3. Generally supported financially by the government
- 4. Restricted to the domains of engineering and medical institutions

Select the correct answer using the codes below.

- A. 1, 2 and 3 only
- B. 1 and 3 only**

C. 2 and 4 only

D. 1, 2 and 4 only

41 At equinox

A. Neither of the poles is tilted towards the sun

- B. Sun's rays do not fall directly over the equator
- C. A solar eclipse is necessarily impending
- D. A larger portion of the Southern Hemisphere gets light

42 India-Canada 'IMPACTS' centre focuses on

A. Clean Water technology

- B. Uranium testing
- C. Skilled labour immigration services
- D. Shipping transport development

43 Adivasi Mahila Sashaktikaran Yojana provides for

- 1. Grant of mandatory land pattas to tribal women
- 2. Loans at concessional rates for income generation activities to tribal women
- 3. Improving basic and digital literacy among tribal women

Select the correct answer using the codes below.

- A. 1 only
- B. 2 and 3 only
- C. 2 only**
- D. 1, 2 and 3

44 Which of these are nearly of equal length?

- 1. Tropic of Cancer and Tropic of Capricorn
- 2. Equator and both tropics
- 3. Prime Meridian and other longitudes

Select the correct answer using the codes below.

- A. 1 and 2 only
- B. 3 only
- C. 1 and 3 only**
- D. 2 only

45 With reference to governance of the Public Distribution System (PDS) system, consider the following statements.

- 1. The central and state governments share the joint responsibility of regulating the PDS.
- 2. State governments are responsible for distributing grains to the consumers through a network of Fair Price Shops (FPSs).
- 3. The grain quota of Below poverty Line (BPL) and above poverty line families has been fixed at the same level to control leakages.
- 4. States/UTs are forbidden to distribute additional items of mass consumption through the PDS outlets such as edible oils or iodized salt.

Select the correct answer using the codes below.

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

46 Which of the following best describes the shape of our Milky way galaxy?

- A. Geoid
- B. Sphere
- C. Cylinder
- D. Barred spiral**

47 With reference to the India-UN Development Partnership Fund, consider the following statements.

1. It will be utilized to carry out country- level projects catalytic towards achieving the SDGs.
2. The Partnership fund would be managed by UN Office for South-South Cooperation (UNOSSC).

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

48 With reference to Radiation processing of foods, consider the following statements.

1. It does not make the food radioactive in controlled conditions.
2. It increases the nutritional value of food significantly.
3. It easily reverses the spoilage of good.
4. It can be used for sterilization of medical and packaging products.

Select the correct answer using the codes below.

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

49 Areas lying between the Arctic Circle and the North Pole in the Northern Hemisphere are very cold. It is because

1. Earth's effective radius is lesser at these points.
2. Sun rises above the horizon at these areas almost the entire year.
3. Air pressure at these locations is much lesser as compared to lower latitudes.

Select the correct answer using the codes below.

- A. 1 only
B. 2 and 3 only
C. 2 only
D. None of the above

50 The Ministry of Health and Family Welfare has recently released a National Policy on Thalassemia. What is 'thalassemia' related to?

- A. Anemia**
B. HIV
C. Tobacco Control
D. Surrogacy

51 Government of India has voluntarily contributed to various UN Funds and Programmes at the UN Pledging Conference for the year 2017. Consider the following funds and the Ministry/Department that made contribution to that fund.

1. UNDP: Ministry of Social Justice and Empowerment
2. UNICEF: Ministry of Women & Child Development
3. United Nations Population Fund (UNFP): Ministry of Health & Family Welfare
4. UNEP: Ministry of Environment, Forest and Climate Change

Select the correct answer using the codes below.

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

52 Consider the following statements.

1. Ursa Major constellation is most clearly visible from Southern Hemisphere as against a partial obstruction from Northern Hemisphere.
2. Pole Star is a rough indicator of the direction toward the geographic North Pole.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

53 Ministry of Health & Family Welfare and Ministry of Women and Child Development have jointly developed Mother and Child Protection card. Consider the following about it.

1. Every pregnant woman is to be given this Card at the time of registration of pregnancy in all public or private health facilities.
2. The card would help monitor stages of child development and growth till three years of age.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

54 India and Bangladesh have agreed to develop round the year navigation of Sirajganj – Daikhowa stretch of Jamuna river. This has the potential to

1. Facilitate critical connectivity between National Waterways related to rivers Ganga and Brahmaputra
2. Stop all flood occurrences in the states of Bihar, Jharkhand and Odisha

Which of the above is/are correct?

- A. 1 only**
B. 2 only
C. Both 1 and 2
D. None

55 In many areas, the introduction of Green Revolution was associated with

1. Loss of soil fertility
2. Depletion of groundwater table
3. Widespread fungal infections in surrounding crops
4. Reduction of Seed replacement ratio to zero

Select the correct answer using the codes below.

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

56 The magnetic compass is the most familiar compass type. However, recently Gyrocompass is also being used as a modern compass. What is/are its advantages over a magnetic compass?

1. They are able to find the true north, as opposed to magnetic north.
2. They are not affected by ferromagnetic metal as they do not require electricity to operate.

Which of the above is/are correct?

- A. 1 only**
B. 2 only
C. Both 1 and 2

D. None

57 With reference to planets of the solar system and their orbital characteristics, consider the following matches:

1. Uranus: Made entirely of rocks
2. Saturn: Longest spin time on own axis
3. Mars: Highest number of Moons
4. Mercury: Shortest orbital period around Sun

Select the correct answer using the codes below.

A. 1, 3 and 4 only

B. 4 only

C. 2 only

D. 1 and 3 only

58 He worked on the approximation for pi and found out the area of a right-angled triangle. He also worked on the motions of the solar system and calculated the length of the solar year correctly. A legendary mathematician of the Gupta Era, he is

A. Brahmagupta

B. Arvabhata

C. Varahamihira

D. Yativr̥ṣabha

59 North America is linked to South America by

A. A very narrow Isthmus of Panama

B. A sea overbridge constructed by the USA government

C. Only air and ship travel through coastal regions

D. An international highway constructed jointly by Mexico and Brazil

60 Government has approved formation of a Rail Development Authority (RDA) comprising Chairman and three Members.

Consider the following reference to it.

1. RDA will decide pricing of major rail services commensurate with costs.
2. It will suggest measures for enhancement of Non-Fare Revenue.
3. RDA will focus on protection of consumer interests by ensuring quality of service and cost optimization.
4. It will approve non-discriminatory open access to the Dedicated Freight Corridor (DFC) infrastructure for all MNCs

Select the correct answer using the codes below.

A. 1, 2 and 3 only

B. 2 and 3 only

C. 1 and 4 only

D. 2, 3 and 4 only

61 The mid-day sun is exactly overhead at least once a year on

A. All latitudes excluding the polar latitude

B. All latitudes in between the Tropic of Cancer and the Tropic of Capricorn

C. Only the equator

D. All latitudes beyond both tropics

62 Indian Army is planning to have a total of five regiments of Medium Range Surface to Air Missiles (MRSAM) defense system. Consider the following with reference to it.

1. It is an amphibian system.

2. It is capable of engaging multiple aerial targets.

3. It is a mobile all-weather system.

4. It will be deployed opposite to China and Pakistan.

Select the correct answer using the codes below.

A. 2, 3 and 4 only

B. 1, 2 and 4 only

C. 3 only

D. 1, 2, 3 and 4

63 Tropic of cancer does NOT pass through which of these Indian states?

A. Gujarat

B. Rajasthan

C. Madhya Pradesh

D. Bihar

64 Welfare schemes for textile workers are being implemented by the Ministry of Textiles in which of the following areas?

1. Health and accident insurance of weavers and artisans

2. Credit Guarantee Fund for Micro and small enterprises for the coverage of handicraft artisans

3. Mudra loan for Handicraft Artisans in line with Pradhan Mantri Mudra Yojana

Select the correct answer using the codes below.

A. 1 only

B. 2 and 3 only

C. 3 only

D. 1, 2 and 3

65 Consider the following statements. Chemical fertilizers:

1. Provide minerals that are retained in the soil forever

2. Help in the rapid growth of bacteria and other microorganisms to restore the natural fertility of soil

Which of the above is/are correct?

A. 1 only

B. 2 only

C. Both 1 and 2

D. None

66 What is the highest point on Earth as measured from 'Earth's centre'?

A. Top of Mount Chimborazo

B. Karakoram

C. Mauna Kea

D. Summit of Mount Everest

67. The committees that have worked or are working towards evolving the National Education Policy lately are

1. Gadgil committee

2. Kasturirangan committee

3. Subramaniam Panel

4. Shome Committee

Select the correct answer using the codes below.

A. 1 and 4 only

B. 2 and 3 only

C. 1, 2 and 3 only

D. 3 and 4 only

68 Sea level rise at specific locations may be more or less than the global average due to many factors.

Which of these factors can create differences between local sea level and global sea level?

1. Local land subsidence
2. Ocean currents
3. Variations in land height

Select the correct answer using the codes below.

- A. 1 only
B. 2 only
C. 2 and 3 only

D. 1, 2 and 3

69 Consider the following statements.

1. In the Solar system planets, only Jupiter and Saturn have rings around them.
2. The rings surrounding the solar system planet are large enough to be visible from naked eyes.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2

D. None

70 The Union Ministry of Science and Technology has launched SOHUM. What is it?

- A. A drought free breed of rice that can be grown all round the year
B. A family planning kit that will be distributed free of cost in rural areas

C. An indigenously developed low-cost hearing screening device for newborns

- D. A compendium of scientific practices from the Vedas and Puranas

71 Under National Adaptation Fund for Climate Change (NAFCC)

1. Cent per cent central grant is given to the State Governments for implementing climate change adaptation projects
2. United Nations Environment Programme (UNEP) and associated agencies have committed to contributing fifty per cent of the budget

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2

D. None

72 Recently a hybrid material was synthesised by scientists from IISER combining polyhedral oligomeric silsesquioxane (POSS) and diphenylalanine. What is the special property of this hybrid?

- A. It is an organic plastic.
B. **It is fire and rust resistant.**
C. It is a metal that is lighter in density than water.
D. It is a radioactive material with infinite half-life.

73 Which of these have a bearing on inland waterway governance in India?

1. National Waterways Act, 2016
2. Inland Vessels (Amendment) Act, 2007
3. Inland Waterways Authority of India (IWAI)

Select the correct answer using the codes below.

- A. 1 and 2 only
B. 2 only

- C. 2 and 3 only

D. 1, 2 and 3

74 Consider the following about the Unique Identification Authority of India (UIDAI).

1. It was established as a statutory authority under the provisions of the Aadhaar Act, 2016.
2. It is an attached office of NITI Aayog.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

75 United States Navy successfully tested the world's first-ever active Laser Weapons System (LaWS). Consider the following about it.

1. It operates within an invisible part of the electromagnetic spectrum.
2. It is absolutely silent in its operation.
3. It does not require electrical power and operates by converting sun's rays into laser beams.
4. Its system has special materials that release photons at the speed of light.

Select the correct answer using the codes below.

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

76 Article 142 in the Constitution of India was recently in news. This article empowers

A. The Supreme Court to pass order as necessary for doing complete justice in any cause

- B. The Union government to overtake core functions of the state government in case of President's rule
C. The Governor of a state to reject claims of government formation if the claim is not bonafide
D. The local bodies to take over the peripheral civic functions of district administration

77 What s/are the differences between physical capital and human capital?

1. Human capital cannot be used as factor of production whereas physical capital can be.
2. A nation's physical capital cannot grow over time whereas human capital can.
3. Physical capital cannot be organized unlike human capital.

Select the correct answer using the codes below.

- A. 1 only
B. 2 and 3 only
C. 2 only
D. **None of the above**

78. "Protection and Preservation of Endangered Languages of India" (SPPEL) is a government initiative. Consider the following about it.

1. It was instituted by Ministry of Tribal affairs.
2. It aims to document and archive the country's languages that have become endangered or are likely to be.
3. Languages identified under SPPEL will be added to the Eighth schedule of the Constitution.

Select the correct answer using the codes below.

A. 2 only

- B. 1 and 3 only
C. 3 only
D. 1 and 2 only

79 Consider the following statements.

Assertion (A): The literacy rates in India have increased from nearly 50% in 1951 to about 75% in 2010- 11.

Reason (R): Public expenditure on education as a percentage of GDP has consistently increased from 1951 levels in India.

In the context of the above, which of these is correct?

- A. A is correct, and R is an appropriate explanation of A.
B. A is correct, but R is not an appropriate explanation of A.
C. A is incorrect, but R is correct.

D. Both A and R are incorrect.

80 As per the various existing State Land Record databases, which of these are local units of land measurement in India?

1. Guntas
2. Sarsaai
3. Biswansi
4. Dugurum
5. Marla

Select the correct answer using the codes below.

A. 3 and 4 only**B. 1, 2, 3 and 5 only**

- C. 2, 4 and 5 only
D. 1, 2, 3, 4 and 5

81 Which of these are held by voting via Secret Ballot, as against open ballot, in the Parliament?

1. Election of the office of President and Vice-President
2. Election of members to Rajya Sabha
3. Voting on motions and resolutions in the house

Select the correct answer using the codes below.

A. 1 only

- B. 2 and 3 only
C. 1 and 2 only
D. None of the above

82 Which of the following description best suits Himalayan Mountains?

A. Young fold mountains

- B. Old block mountains
C. Rugged and young block mountains
D. Rounded volcanic mountains

83 The Ministry of Health and Family Welfare (MOHFW), Government of India, designated which of these as the nodal agency, responsible for providing coordination and technical guidance for the National Family Health Survey (NFHS)?

A. International Institute for Population Sciences (IIPS)

- B. United Nations Children's Fund (UNICEF)
C. NITI Aayog
D. Directorate General of Health and Nutrition, MoHFW

84 Technology and Innovation Support Centre (TISC) are being setup by Department of Industrial policy and promotion (DIPP). Services offered by TISCs include:

1. Access to online patent resources and intellectual property (IP)-related publications
2. Assistance in searching and retrieving technology information
3. Design, incubation and execution support and finance for start-ups
4. Plug and play special economic zones (SEZs) inside TISC

Select the correct answer using the codes below.

A. 1 and 2 only

- B. 3 and 4 only
C. 1, 2 and 4 only
D. 2, 3 and 4 only

85 The SDG Index and Dashboard collect available data for countries to assess where each country stands in a particular year with regard to achieving the Sustainable Development Goals (SDGs). It is published by

A. UN Sustainable Development Solutions Network (SDSN)

- B. World Bank
C. United Nations Development Programme (UNDP)
D. A consortium of NGOs chosen by party countries for independent assessment

86 CRISPR, recently seen in news, is a

A. Powerful gene editing technique

- B. Space probe to Jupiter
C. Electronic storage device capable of very large data storage
D. Supercomputer inducted by India

87 With reference to poverty related statistics in India, Incidence of poverty is higher in

1. Rural areas as compared to urban areas
2. Eastern states as compared to Southern states

Which of the above is/are correct?

A. 1 only**B. 2 only****C. Both 1 and 2****D. None**

88 Consider the following about the Modified Industrial Infrastructure Up gradation Scheme (MIUS).

1. All States are covered under the scheme.
2. It focuses on providing quality infrastructure through public private partnership.
3. Greenfield Projects are undertaken in backward areas and North Eastern Region (NER).

Select the correct answer using the codes below.

A. 1 only**B. 2 and 3 only****C. 1 and 3 only****D. 1, 2 and 3**

89 The Minimum Support Price (MSP) is declared by the government every year

A. Before the sowing season**B. Every week at all major mandis**

- C. At the end of every month
D. After the sowing season

90 India has not ratified some of the core or fundamental International Labour Organisation (ILO) Conventions, namely Freedom of Association and Protection of the Right to Organize Convention, 1948 and Right to Organize and Collective Bargaining Convention, 1949. This is because

1. Accepting this convention would allow government servants to work for foreign organizations freely.
2. The conventions would give government servants a right to openly criticize Government policies.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

91 LCU Mark-IV vessels have been designed for multipurpose amphibious operations jointly carried out Indian Navy and Indian Army to ensure maritime security of

- A. Andamans and Lakshadweep islands**
B. Sundarban Delta
C. High seas near Gujarat oil fields
D. Gulf of Mannar Reserve

92 The recent passing of The Right of Children to Free and Compulsory Education (Amendment) Bill, 2017 by Lok Sabha was centered on

- A. Teacher training**
B. Infrastructure development
C. Digitization of schools
D. No detention provision

93. The only continent through which the Tropic of Cancer, the Equator and the Tropic of Capricorn pass is

- A. Asia
B. South America
C. Australia
D. Africa

94 As meteoroids come near the earth and tend to drop upon it, we often see a flash of light. This is caused due to

- A. Air induced friction borne by meteoroids**
B. Charged particle emission by meteoroids
C. Destruction of ozone layer by meteoroids
D. Ion exchange between Ionosphere and meteoroids

95 With reference to the Palk Strait consider the following statements.

1. It connects the state of Tamilnadu in India to Sri Lanka.
2. No river flows into the strait.
3. The popular Ram Setu is located near the strait.
4. The deep waters and reefs of the strait make it a much-sought alternative shipping route for large cargo.

Select the correct answer using the codes below.

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

96 CORDEX is a

- A. Regional climate change modeling programme**
B. Food standardization programme
C. Vaccination programme run by UNICEF
D. Internet sea cable laying programme of the WTU

97 With reference to the India-Japan Agreement for Cooperation in the Peaceful Uses of Nuclear Energy, consider the following statements.

1. India is the only non-Nuclear Non- proliferation Treaty (NPT) signatory country with which Japan has entered into a civil nuclear deal.
2. The deal would enable Japan to export nuclear power plant technology as well as provide finance for nuclear power plants in India.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

98 Acute mountain sickness or altitude sickness is usually caused due to

1. Increase in air pressure and density
2. Low levels of oxygen at high altitudes

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None

99 A straight line joining Dehradun to Vijayawada will pass through how many states, excluding the origin and destination?

- A. 3
B. 4
C. 5
D. 6

100 The Department of Biotechnology has initiated two farmer-centric programmes Biotech Kisan and Cattle Genomics.

Consider the following about them.

1. Cattle Genomics Programme intends to select elite breeding animal at an early age by identifying genetic worth of animals.
2. Biotech Kisan Programme focuses on creating strong scientists-farmer's interactive platform to solve problems of farmers with technology.

Which of the above is/are correct?

- A. 1 only
B. 2 only
C. Both 1 and 2
D. None