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ON
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1. The Multi-dimensional poverty Index developed by Oxford Poverty and Human Development Initiative with UNDP support covers which of the following?

1. Deprivation of education, health, assets and services at household level.
2. Purchasing power parity at national level.
3. Extent of budget deficit and GDP growth rate at national level.

Choose the correct code:

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

2. Which of the following statement/s is/are correct?

1. The objective of Rural Infrastructure Development Fund (RIDF) maintained by the National Bank for Agriculture and Rural Development (NABARD) is to provide loans to State Government and State-owned Corporations to

enable them to complete ongoing Rural Infrastructure Projects.

2. NABARD is fully owned by Government of India.

Choose the correct code:

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

3. Which of the following statement/s is/are incorrect?

- a) Fiscal Policy is said to be loose or expansionary when revenue is higher than spending.
- b) Fiscal Policy is said to be tight or contractionary when revenue is higher than spending.
- c) Fiscal Policy is the use of government spending and taxation to influence the economy.
- d) The most immediate effect of fiscal policy is to change the aggregate demand for goods and services.

4. Consider the following statements regarding Centre-State financial relations:



1. The property or income of corporations and companies owned by a state cannot be taxed by the Centre.
2. All the property of Centre within a state are subject to State taxation.

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

5. The transfer of Judges from one High Court to another is done by:

- a) Chief Justice of India only
- b) Governor after consulting Chief Justice of India.
- c) Chief Justice of India after consulting concerned Chief Justice of High Court.
- d) President after consulting Chief Justice of India.

6. Recently, Food Safety and Standards Authority of India (FSSAI) has launched an Initiative called RUCO. It is related to?

- a) Initiative to curb adulteration in food products.
- b) Initiative for collection & conversion of used cooking oil in to Bio-diesel.
- c) Initiative to spread awareness among people to reduce unhygienic practices.
- d) Initiative to reviewing Food Labelling Standards.

7. With reference to the jurisdiction and powers of the Supreme Court of India, which of the following statements is/are correct?

1. The jurisdiction and powers of the Supreme Court can be extended and curtailed by the Parliament.
2. The Supreme Court enquires into the conduct of the Chairman and members of the Union Public Service Commission on a reference made by the Parliament.

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

8. Regarding the appointment of the Chief Minister of a State in India, consider the following statements:

- a) On the death of a Chief Minister, the ruling party usually elects a new leader and the Governor has no choice but to appoint him as the Chief Minister.
- b) The Constitution does not require that a person must prove his majority in the Legislative Assembly before he is appointed as the Chief Minister.
- c) A person who is not a member of the State Legislature can be appointed as the Chief Minister.
- d) According to the Indian Constitution, the Chief Minister may be a member of any of the two Houses of a State Legislature.

Which of the statement(s) given above is/are correct?

- a) 1 only

9. Catalytic converters, having metals are fitted into automobiles for reducing emission of poisonous gases. Which of the following are catalytic converters used in automobiles?

- 1. Platinum – palladium
- 2. Rhodium
- 3. Lead
- 4. Silver

Select the correct answer using the codes given below

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

10. Consider the statements regarding 'World Air Quality Report 2018'.

Identify the correct statements.

- 1. 18 of top 20 cities which are in Indian subcontinent are highly polluted as per the report.



2. Delhi topped the list, followed by Ghaziabad (UP) and Faisalabad of Pakistan.

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

11. 'Rani ki vav' is a UNESCO World Heritage site in Gujarat. Which of the following statements are correct regarding 'Rani ki Vav'?

- 1. It is a multistory garden on the banks of river Sabarmati.
- 2. It is designed as an inverted palace.
- 3. Every story of the structure is intricately carved.

Select the code from following:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) All of the above

12. In the context of Centre-State relationship concerning Jammu and Kashmir, consider the following statements:

- 1. Part VI of the Indian Constitution relating to Centre-State relationship is not applicable to the State of Jammu and Kashmir.
- 2. Any law on preventive detention by the Parliament is automatically applicable to the State of Jammu and Kashmir.

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

13. Non-convertible debentures are:

- a) Debt instruments which acquire equity status only at the investor's option.
- b) Debt instruments which acquire equity status only with the permission of Registrar of Companies.
- c) Debt instruments which acquires equity status only on maturity.



d) Debt instruments which retain their debt character and cannot acquire equity status.

c) Rivers-Ground water-Inland sea-Ice caps-Atmosphere

d) Atmosphere-Ice caps-Rivers-Ground water-Inland sea

14. Consider the following statements

1. Amount of water vapour decreases with altitude
2. Humidity is high in tropics and equator compared to deserts and polar regions
3. Water vapour absorbs part of insolation from sun and makes the atmosphere warm
4. Water vapour increases from equator to the poles

16. Which of the following is/are true about Central Highlands

1. It is a classic example of relict mountains.
2. It is composed of Metamorphic Rocks.
3. Most of the tributaries of Yamuna have their origin in Central Highlands.

Select the correct answer from the following codes

Which of the above statements are true?

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

- a) 1 Only
- b) 1 and 2
- c) 2 and 3
- d) 1,2 and 3

15. Choose the ascending order of fresh water distribution in the Earth?

- a) Rivers – Atmosphere – Inland Sea-Ground water-Ice caps
- b) Ice caps-Rivers-Ground water-Inland Sea-Atmosphere

17. Manipuri dance is a classical dance of India. It uses a special instrument called 'Pung'. What type of instrument is Pung?

- a) Percussion
- b) String
- c) Air
- d) Air and string



18. Which of the following causes eutrophication?

1. Letting of Sewage
2. Agricultural wastes
3. Industrial wastes
4. Insecticides used in agriculture

Choose the correct answer from the options given below

- a) 1, 2 and 3 only
- b) 2, 3 and 4 only
- c) 2 and 3 only
- d) All the above

19. Which of the following best describes "Super straw Management system".

- a) Cultivating varieties that produces low straw to grain output.
- b) It when attached to paddy harvester, will cut down stubbles to small pieces.
- c) It is an on- field hay making system, that converts left over stubbles to forage.
- d) Production of bio-decomposable straw replacing plastic straws.

20. Consider the following statements about the Mughal ruler Firuz shah tuglaq:

1. Firuz shah tuglaq was the first ruler who took steps to translate the hindu religious works from Sanskrit to Persian
2. Jizyah became a separate tax during Firuz shah tuglaq

Select the incorrect answer from the code below:

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

21. Consider the following statements about Kabirdas:

1. He was against pilgrimage and idol worship
2. He emphasized on one God
3. He considered it was necessary to abandon the normal life of a householder

Select the incorrect code from below:

- a) 1 only



- b) 1 & 2 only
- c) 1 & 3 only
- d) 3 only

22. Which of the following bodies was/were established under a legislation enacted by the Parliament?

1. National Human Rights Commission
2. Central Bureau of Investigation
3. Central Information Commission

Select the correct answer using the code given below.

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

23. With reference to Election commission of India, consider the following statements:

1. The Parliament has the power to decide the number of election commissioners.
2. The salary of Election Commissioner is a charged expenditure on the Consolidated fund of India.
3. The Election Commissioners are not barred from further employment under the Government after retirement.

Which of the statements given above is/are correct?

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

24. Recently, Sunscreen products were in the news. Consider the following statements in this regard:

1. Palau is the first country to completely ban the production of Sunscreen.
2. Chemicals inside the sunscreen products are highly toxic to coral reefs.

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

25. Which of the following events took place during the tenure of Viceroy Lord Irwin?

1. Visit of Simon commission to India
2. Dandi March by Gandhi



3. Boycott of First Round Table Conference
4. Poona Pact

Select the correct code

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

26. The term 'fMRI scan' was recently in news. Which of the statement correctly explains about it?

- a) A technique where changes in blood flow in the brain are tracked to gauge brain activity.
- b) A technique uses computers and rotating X-ray machines to create cross-sectional images of the body.
- c) It is a detection system that uses radio waves to determine the range, angle, or velocity of objects.
- d) It is the process of recording the electrical activity of the heart over a period of time using electrodes placed over the skin.

27. Consider the following statements regarding ISRO and its endeavours:

1. NISAR is the joint collaboration between NASA and ISRO for orbiting Jupiter.
2. GSLV Mk -III has been the heaviest rocket launched so far by ISRO.
3. Indian Remote Sensing (IRS) series of satellites are placed in Polar Sun Synchronous Orbits (PSSO).

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

28. Nauradehi wildlife Sanctuary was recently in NEWS due to proposal of reintroduction of African Cheetah. It is located in.

- a) Madhya Pradesh
- b) Maharashtra
- c) Uttar Pradesh
- d) Gujarat



29. "Taj Declaration" is associated with .

- a) Restricting construction of industries 5 km around Taj Mahal.
- b) Making adjoining villages ODF status.
- c) Making 500m area around Taj Mahal litter free and phase out of single use plastic
- d) To curb Air pollution in Delhi.

30. Consider the following statements:

- 1. Neutrinos are chargeless elementary particles that travel at a speed greater than the speed of light.
- 2. Neutrinos have zero mass.

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

31. Which of the following statements is incorrect regarding the object moving in a circular path with uniform speed?

- a) This motion is called a uniform circular motion.
- b) This is an example of accelerated motion.
- c) At all instances, the object is moving tangent to the circle.
- d) None of the above.

32. Which of the following is/are the correct statements regarding 'IceCube Observatory' that was in the news recently?

- 1. It is the world's most sensitive neutrino telescope which will help demystify the powerful pulses of radio energy generated up to billions of light-years from Earth.
- 2. The Observatory has been constructed on a lonely peak in the western Himalayas and is the world's highest observatory.

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



33. With reference to the official language of different states, consider the following statements:

1. The Governor of a state decides its official language(s).
2. Choice of a state for its official language is limited to the language enumerated in the Eighth Schedule of the Constitution.

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

34. Consider the following statements:

1. An Act for the better control of publications in Oriental Languages was enacted by Lord Curzon.
2. This Act was repealed by Lord Minto in 1910.

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

35. Ahrar Movement was founded in 1910 in Punjab. Which of the statements are correct about this movement?

1. It was founded by Hakim Ajmal Khan
2. The movement was against the loyalist politics of the Aligarh movement.
3. Ahrar movement advocated the active involvement of Muslims in Indian nationalist movement.

Select the code from following:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) All of the above

36. The rock paintings are the greatest wealth the primitive human beings left behind. Consider the following statements about rock paintings:

1. The largest number of paintings belong to Chalcolithic period



2. Hunting scenes were predominant during Mesolithic period only
3. Prehistoric paintings were depicted on the walls of rock shelters in lakhudiyar and Bhimbetka.

Select the correct answer using the code given below:

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

37. Which of the following organisations were founded by Ambedkar?

1. Independent Labour Party
2. All India Scheduled Castes Federation
3. All India Depressed Classes Association
4. Bharatiya Bauddha Mahasabha

Choose the correct answer using the codes given below

- a) 1, 2 and 3 only
- b) 2, 3 and 4 only
- c) 1, 2 and 4 only
- d) All the above

38. Which of the following statement/s is/are incorrect about Archaeological Survey of India (ASI)?

- a) The ASI is the premier organization for the archaeological researches and protection of the cultural heritage of the country.
- b) It functions under the aegis of the Union Ministry of Culture.
- c) It was established in 1861 by Collin Mackenzie.
- d) It regulates all archaeological activities as per the provisions of the Ancient Monuments and Archaeological Sites and Remains Act, 1958. It also regulates Antiquities and Art Treasure Act, 1972.

39. The Chief Information Commissioner and Information Commissioners are appointed by the President on the recommendation of a committee consisting of:

1. The Prime Minister, who shall be the Chairperson of the committee.
2. The Leader of Opposition in the Lok Sabha.



3. A Union Cabinet Minister to be nominated by the Prime Minister.
4. The Leader of Opposition in the Rajya Sabha

Choose the correct code:

- a) 1, 2 and 4 only
- b) 1, 2 and 3 only
- c) 1, 3 and 4 only
- d) All the above.

40. Arrange the following in Chronological Order:

1. Illegal Migrant Determination Tribunal (IMDT).
2. Assam Accord
3. Land Boundary Agreement
4. National Register of Citizens

Choose the correct code:

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

41. Which of the following statements are correct regarding "Earth overshoot Day".

1. It is the day when human annual demand on nature exceeds what earth can regenerate over the entire year.
2. It is calculated by Global Footprint Network and IUCN.

Code:

- a) i only
- b) ii only
- c) Both 1 and 2
- d) None of these

42. Consider the following statements regarding growth and development:

1. While growth is a quantitative change, development is a qualitative change.
2. While growth is always positive, development can be either positive or negative.

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



43. With respect to economy, which of the following correctly describes the term skewflation?

- It is a rise in the price of one or a small group of commodities over a sustained period of time.
- It means declining rate of inflation over the last four economic quarters of a financial year.
- It means declining inflation due to huge imports over a period of time.
- It is a measure of increasing prices particularly for the service sector.

44. In Indian context, consider the following statements about 'the Citizenship (Amendment) Bill, 2016':

- The Bill amends the Citizenship Act, 1955 to make illegal migrants who are Hindus, Sikhs, Buddhists, Jains, Parsis and Christians from Afghanistan, Bangladesh and Pakistan, eligible for citizenship.
- The Bill excludes illegal migrants for citizenship on the basis of religion.

3. The Bill allows cancellation of Overseas Citizens of India (OCI) registration for violation of any law.

Which of the statements given above is /are correct?

- 1 only
- 2 and 3 only
- 1 and 3 only
- 1, 2 and 3

45. The Supreme Court of India recently decriminalized the offence of adultery by holding Section 497 of (IPC) and Section 198(2) of the Code of Criminal Procedure as unconstitutional. Which of the following is/are the reason(s) observed by the Supreme Court to decriminalize adultery?

- Criminalization of adultery led to commodification of women.
- Criminalization of adultery is in violation of Article 14 of the Constitution.
- Criminalization of adultery is the violation of the right to privacy and to live with dignity, thus violating their fundamental rights under Article 21 of the Constitution.



Select the correct answer using the code given below:

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

46. Which of the statement/s is/are correct about Core Inflation?

1. shows short term fluctuations.
2. includes the inflation in items of daily need such a food and energy.
3. reflects demand side pressure in the economy.

Choose the correct code:

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

47. With reference to banking and financial markets, Amortization is the process of:

- a) Repayment of debt through periodic installments over a period of time.

b) Use of excess cash by a company to pay outstanding debt rather than distribute it to shareholders.

c) Payment of death benefit to the beneficiary/nominee in case of death of insured.

d) Make periodic payments of the sum assured after the end of insurance term.

48. The term 'Angel Fund' refers to...

a) It is a money pool created by high net worth individuals or companies for investing in business startups.

b) It is a money pool created by governments to encourage startups.

c) Firms that manage the money of investors who seek private equity stakes in startup and small to medium sized enterprises with strong growth potential.

d) None of the above.

49. The Goods and Services Tax Network (GSTN) is established to provide IT infrastructure and services to the Central and State Governments, taxpayers and



other stakeholders for implementation of the Goods and Services Tax (GST). It is a

- a) Non-Government, private limited company.
- b) Public, Government of India undertaking.
- c) Special Purpose Vehicle entirely funded by Indian Government.
- d) None of the above.

50. Consider the following statements

- 1. Jute is known as golden fiber.
- 2. Maize is grown in well-drained fertile soil.
- 3. Coffee requires cool and wet climate for growth.
- 4. Tea require warm and wet climate for growth

Which of the following statements is/are correct?

- a) 1 & 2 only
- b) 2 & 3 only
- c) 3 & 4 only
- d) 1 & 4 only

51. Kalahari is a desert because it

- a) Lies in the tropics
- b) Is on the leeward side of a mountain.
- c) Underlies a high pressure cell.
- d) Receives only land winds.

52. Niagara Falls is located between which of the following pairs of lakes?

- a) Lake Superior and Lake Huron
- b) Lake Huron and Lake Erie
- c) Lake Erie and Lake Ontario
- d) Lake Ontario and Lake Huron

53. Which of the following is/are the outcome/s of 'Weakening of Rupee'?

- 1. It will be beneficial for both the exporters as well as the importers.
- 2. Margin of oil companies will come under pressure.
- 3. Inflation in the economy will increase.

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



54. With respect to Fugitive Economic Offenders Act 2018, a person would be declared as a fugitive economic offender if:

1. an arrest warrant has been issued against him for any specified offenses.
2. the value of an offence involved is over Rs 100 crore.
3. he has left the country and refuses to return to face prosecution.

Which of the statements given above is/are correct?

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

55. The "Prompt Corrective Action" is often seen in the news, refers to:

- a) Superintendence of Supreme Court related to speedy trials of criminal cases of legislators.
- b) Directions given by National Green Tribunal to address pollution problem in National Capital region.

- c) Central govt. initiative to deal with diplomatic issues in South Asia.
- d) Mechanism under which RBI takes monitoring and; controlling actions on weak and troubled banks.

56. With reference to the transgender community in India, consider the following statements:

1. They were granted voting rights by the 61st Constitutional Amendment Act, 1988.
2. Recently, they have been given reservations under Other Backward Classes (OBC) quota.

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

57. Electoral bonds are introduced by amendments made through the Finance Act 2017 by amending which of the following acts:

1. Reserve Bank of India Act 1934



2. Representation of Peoples Act 1951
3. Income Tax Act 1961
4. Companies Act

Select the correct code:

- a) 1, 2 and 3 only
- b) 3 only
- c) 2 and 3 only
- d) All the above

58. Under Article 12 of the Indian Constitution, which of the following bodies come under the definition of 'State'?

1. District Boards
2. Navratnas like ONGC
3. Any private agency working for AADHAR registration

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

59. Although the Right to Education Act was enacted in 2009, its roots are traced to the colonial era debates and also the demands of the Indian national movement. The idea was first clearly enunciated in

- a) Gokhale's Resolution in 1910 in Legislative Council
- b) Gandhi's Wardha Education Scheme
- c) Nehru's Karachi Resolution on fundamental rights
- d) Woods Dispatch 1854

60. Arrange the following events chronologically:

1. Cabinet Mission
2. Desai Liaqat Pact
3. Quit India Movement
4. Wavell Plan

Select the correct answer using the code given below:

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



61. Which of the following are true about Nagpur Session of Indian National Congress in 1920?

1. Provincial congress committees were organized on linguistic basis.
2. Programme of non-cooperation was endorsed.
3. First All India Youth Congress was formed.

Select the correct code

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

62. Which of the following are the provisions of recently proposed DNA Technology (Use and Application) Regulation Bill 2019?

1. Establishment of DNA Regulatory Board.
2. Accreditation of DNA Laboratories.
3. Establishment of National and Regional DNA Data Bank.

Choose the correct code:

- a) 1 and 2 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) All the above.

63. Which of the following states in India has withdrawn 'General Consent' given to Central Bureau of Investigation (CBI) under Delhi Police Act?

1. Andhra Pradesh
2. West Bengal
3. Chattisgarh
4. Tamil Nadu

Choose the correct code:

- a) 1, 2 and 4 only
- b) 1, 2 and 3 only
- c) 1, 3 and 4 only
- d) All the above.

64. Among the following, the narrowest portion of English Channel lies between

- a) Dover and Calais
- b) Portsmouth and Le Havre
- c) Hull and Rotterdam



d) Plymouth and Brest

b) 2 and 3 only

c) 3 only

d) None of the above.

65. Alps Mountains spreads over

a) France, Switzerland, Italy, Romania

b) France, Switzerland, Italy, Austria

c) France, Switzerland, Italy, Spain

d) France, Switzerland, Italy, Belgium

68. Consider the following

1. National Waterway 6 proposed between Laxhipur and Bhanga of the Bagirathi River.

2. Buckingham canal is the part of National Waterway 3

66. Between which one of the following pairs of islands is Duncan Passage located?

a) South Andaman and Little Andaman

b) Little Andaman and Car Nicobar Island

c) Car Nicobar Island and Little Nicobar Island

d) Little Nicobar Island and Great Nicobar Island

Choose the correct code:

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

67. Which of the pair/s is/are incorrectly matched?

1. Sargasso Sea: Atlantic Ocean

2. Miyako Strait: Pacific Ocean

3. Beaufort Sea: Pacific Ocean

69. Consider the following

1. Rabi crops are sown in winter and are harvested in summer

2. Peas, gram and mustard are important Rabi crops

3. Watermelon, muskmelon and cucumber are important kharif crops

Which of the above statement is/are true?

Select the code:

a) 2 only

a) 1 and 3 only



- b) 1 and 2 only
- c) 2 and 3 only
- d) All the above

Select the correct code:

- a) 1 and 2 only
- b) 2,3 and 4 only
- c) 1 only
- d) All the above

70. Consider the following

1. Igneous rocks are less affected by chemical weathering as water does not penetrate the rocks easily.
2. Sedimentary rocks are found over the largest surface area of the globe.

Which of the above statement is/are true?

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

72. The term 'Rise Creek' was in news recently. It refers to

- a) a sensor used to assess the coastal damage along the tidal creeks.
- b) industry standard microprocessors developed under Project Shakti.
- c) one-time programmable chips used in the Electronic Voting Machines.
- d) a technology developed under the International Solar Alliance for efficient utilisation of solar energy.

71. Which of the following is/are example of rift valley?

1. Rhine valley of Germany
2. Death Valley of California
3. Central plain of Scotland
4. Spencer bay of Australia

73. With reference to the West Nile Virus, consider the following statements:

1. The virus belongs to the same genus which causes Japanese Encephalitis.
2. The virus is transmitted to humans through mosquito bites.
3. It is a single-stranded RNA virus that causes fever.



Which of the statements given above is/are correct?

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

74. India plans to procure the advanced air defence system “NASAMS” from which of the following country?

- a) United States
- b) Russia
- c) Israel
- d) Japan

75. Which of the following explains about UNNATI programme which was in News recently?

- a) Programme to create awareness on road safety with robots.
- b) Programme for capacity building in Nanosatellite development.
- c) Programme to engage youngsters across the country to capture their scientific temperament.

d) Programme to hear the voice of youth between 18 and less than 25 years of age, who are allowed to vote but cannot stand as a candidate for election.

76. Which of the following could be the possible implication if US withdrawn from Intermediate Range Nuclear Force (INF) treaty?

1. The unilateral withdrawal from this treaty will allow US, new nuclear weapon options in Pacific in its efforts to counter China’s growing influence.
2. There are also concerns that unilateral termination of this treaty could mark beginning of new arms race between US and Russia.
3. Civil Nuclear deal across the world will come to standstill.
4. China, a rising great power, would likely be the biggest economic beneficiary and Iran’s strategic alliance with Russia would also deepen.



Choose the correct code:

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

77. In India, which of these might lead to inflationary pressures in the short run?

- 1. Printing more money
- 2. Rupee Depreciation
- 3. High tax rebates to Indian citizens

Choose the correct answer using the codes below.

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) All of the above

78. With Indian history, who among the following represents one of the past Buddhas or Manushi Buddha?

- a) Shakyamuni
- b) Rishabhdeva
- c) Maitreya
- d) Dipankara

79. In Ancient India, 'Kutagarashala' refer to:

- a) a place where the debate between philosophers took place
- b) a place where the head of a tribe resided.
- c) a place where children of high Brahman family were given education
- d) a place where grains were stored.

80. A system of land assessment called 'batai' was followed by Mughal ruler, Akbar. Consider the following statements regarding Batai system:

- 1. It was also called as Galla-bakshi
- 2. In this system, the produce was divided between peasants and state in fixed proportion.
- 3. Under batai, the peasants were to pay only in cash and not in kind

Select the correct answer from the code given below:

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



81. Consider the following statements regarding "Teflon"

1. It is chemically inert and resistant to attack by corrosive reagents.
2. It is used as a non-stick coating for cookware.

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

82. Consider the following statements regarding Smart Anti-Airfield Weapon (SAAW):

1. It is an indigenously designed and developed weapon.
2. It is capable of engaging ground targets with high precision up to a range of 1000 km.
3. It is a precision-guided glide bomb to destroy runways, bunkers and aircraft hangars.

Which of the statements given above is/are correct?

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

83. Honey that has a high concentration of sugar does not decay because

- a) It contains natural antioxidant that prevents bacterial attack
- b) Bacteria cannot survive in an active state in a solution of high osmotic strength as water is drawn out
- c) Bacteria cannot survive in an active state as it is totally deprived of oxygen
- d) None of these

84. With reference to the concept of equality, which of the following statements is correct?

- a) Political equality is sufficient to build egalitarian and just society.
- b) Equality implies eliminating all forms of differences among people.



- c) Equality means all the person entitled same rights and opportunities to develop their skills and talents.
- d) None of the above statements are correct.

3. Parliament can make laws on any subject of the three lists in relation to the UTs.

Which of the statements given above is/are correct?

85. The form of Government in India is termed as Parliamentary Government due to:

- 1. Presence of both nominal and real executives.
- 2. Collective responsibility of the executive to the legislature.
- 3. Sovereignty of the parliament.

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

Which of the statements given above is/are correct?

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

86. Consider the following regarding administration of Union Territories (UTs):

- 1. Their relationship with Centre is unitary and not federal in nature.
- 2. Their executive head is an agent of the President.

87. Which of the following factor/s is/are will be considered by Commission for Agricultural Costs and Prices (CACPC) while determining Fair and Remunerative price (FRP)?

- 1. The cost of production of sugarcane,
- 2. The recovery of sugar from sugarcane, The realization made from sale of by-products viz. molasses, bagasse and press mud
- 3. The reasonable margins for the growers of sugarcane on account of risk and profits.
- 4. The return to the growers from alternative crops and the general trend of prices of agricultural commodities



Choose the correct code:

- a) 1, 2 and 4 only
- b) 1, 2 and 3 only
- c) 2, 3 and 4 only
- d) All the above.

88. Consider the following about Pattiseema Lift Irrigation Project

- 1. Pattiseema lift irrigation project links the Mahanadi river and the Krishna river.
- 2. It was declared as the first and fastest such irrigation project in the country to be completed on time.
- 3. It is claimed to be the first-ever river interlinking in south India.

Identify the incorrect code

- a) 2 only
- b) 1 only
- c) 2 and 3
- d) None of the above

89. Consider the following about third pole

- 1. It is in the region which is to the north of India and to the south of China

- 2. it contains the third largest expanse of frozen water on earth.
- 3. Asia's largest rivers like Yellow river, Yangtze, the Irrawaddy river and the Ganges originate in the third pole.

Identify the correct one

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) all the above

90. Which of the following statements are correct?

- 1. Bhagat Singh, Sukhdev and Rajguru were tried in Meerut Conspiracy case.
- 2. Surya sen and his associates conducted Chittagong armoury raid.
- 3. Yugantar group was a secret revolutionary association operating in Bengal.

Select the correct code

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



91. Which of the following statement/s is/are incorrect?

- Rohingya is an ethnic minority group, largely comprising Muslims living primarily in Myanmar's western Rakhine state.
- They speak Bengali dialect, as opposed to commonly spoken Burmese language in Myanmar.
- The Myanmar government even refuses to grant them citizenship status, and as a result they do not have any legal documentation, effectively making them stateless.
- India is a signatory to UN Refugee Convention (1951) which grants certain rights to people fleeing persecution, which also recognizes the right of persons to seek asylum from persecution in other countries.

92. Which of the following statement/s is/are correct regarding constitutional provision on Jammu and Kashmir?

- Article 35A extends Indian Citizenship to the 'State Subject' of Jammu and Kashmir.

- Article 370 has a provision for the President to issue order to make certain exception and modifications to the Constitution for the benefit of Jammu and Kashmir.
- Supreme Court Ruling in Puranlal Lakhanpal (1961) case concludes that the President has the power to modify the Constitution when making it applicable to Jammu and Kashmir.

Choose the correct code:

- 1 and 3 only
- 2 and 3 only
- All the above
- None of the above.

93. Which of the following is/are vision of recently notified National Biofuel policy of India 2018?

- Ensure better remuneration for sugarcane farmers.
- Reduce crude oil imports, save foreign exchange.
- Promote indigenous feedstock-based industries.
- Utilise municipal/industrial waste for production of biofuels.



Choose the correct code:

- a) 1 and 3 only
- b) 1, 2 and 3 only
- c) 1, 3 and 4 only
- d) All the above.

94. Consider the following:

1. They developed Vesara style of architecture.
2. Their structural temples exist at Aihole, Badami and Pattadakal.
3. Their administration was highly centralized.

The above statements refer to?

- a) Bahmani
- b) Marathas
- c) Chalukyas
- d) Vijayanagar

95. In India, Great Indian Bustard is declared protected under Schedule 1 of the Wildlife (Protection), Act, 1972, what does it imply?

- a) It enjoys the same level of protection as the tiger.

- b) It no longer exists in the wild, a few individuals are under captive protection; and now it is impossible to prevent its extinction.
- c) It is endemic to a particular region of India.
- d) Both (b) and (c) stated above are correct in this context.

96. Which of the following correctly defines the term Bioprospecting?

- a) Bioprospecting is a scientific method used for breeding of specific species of plants of ecological significance
- b) It the process of discovery and commercialization of new products based on biological resources
- c) It is a traditional knowledge based method for proliferation of healthy breed of plant species
- d) It is using food crops for commercial purposes



97. Zigzag technology, sometimes seen in the news, is related to:

- a) Road transport management.
- b) Reducing air pollution from the brick kiln industry.
- c) Electronic transfer of bitcoins.
- d) Groundwater conservation technology.

98. Coral reefs are vulnerable to a variety of stressors. Even an one degree rise in temperature can damage coral, causing it to expel its symbiotic algae in a process known as coral bleaching (completely white appearance).

Which among the following conditions are required for corals to thrive:

- 1. The sea water temperature must not fall below 68°F (20 °C) virtually limiting the area of distribution to tropical and sub-tropical waters.
- 2. They do not flourish where there are cold currents because of the upwelling of cold water from the depths
- 3. Reefs require saltwater environments with a specific salinity and grow best in clear waters that are poor in nutrients.

Select the correct code from the options given below:

- a) 1 and 2
- b) 2 only
- c) 1 only
- d) All of the above

99. Before the European Renaissance, India is said to be a pioneer in science and mathematics. In this context consider the following statements:

- 1. Sukraniti described technique to make gunpowder, before Mughals introduced it in India.
- 2. Faizi, at the behest of Akbar, translated Bhaskara's Suddhantadipika.
- 3. Tuzuk I Jahangiri contains excerpts on breeding and hybridization.
- 4. Lilavati is a famous mathematics book in medieval period

Select the incorrect answer using the given code below:

- a) 1 only
- b) 4 only
- c) 2 and 4 only



d) 1 and 2 only

100. ISRO is planning to launch the first solar mission, Aditya-L1. Aditya-L1 mission is aimed at studying the Sun from an orbit around the Sun-Earth Lagrangian point 1 (L1).

What is a Lagrangian Point?

- a) It is a point on outer layers of the Sun, extending to thousands of km above the disc (photosphere) having a very high temperature.
- b) It is the point where the combined gravitational force of two large bodies is equal to the centrifugal force that is felt by a third body which is relatively smaller.
- c) It is a point in near Sun at which the solar wind meets the interstellar medium or solar wind from other stars.
- d) A point which is equidistant from the Sun and the Earth.

ANSWER KEY & EXPLANATIONS

1. a

Explanation: The MPI identifies overlapping deprivations at the household level across the same three dimensions as the Human Development Index (living standards, health, and education). It shows the incidence of poor people in a population and the intensity of deprivations with which poor households contend.

2. a

Explanation: NABARD is fully owned by Government of India and Reserve Bank of India (RBI).

3. a

Explanation: Fiscal policy is said to be tight or contractionary when revenue is higher than spending (i.e., the government budget is in surplus) and loose or expansionary when spending is higher than revenue (i.e., the budget is in deficit). Often, the focus is not on the level of the deficit, but on the change in the deficit. Thus, a reduction of the deficit from \$200 billion to \$100 billion is said to be contractionary fiscal policy, even though the budget is still in deficit.

4. d

Explanation: The property and income of local authorities situated within a state are not exempted from the Central taxation. ie, the property or income of corporations and



companies owned by a state can be taxed by the Centre.

The property of Centre is exempted from all taxes imposed by a state or any authority within

a state like municipalities, district boards, panchayats and so on. But the Parliament is empowered to remove this ban if required

5. d

Explanation: The President may, after consultation with the Chief Justice of India, transfer a Judge from one High Court to any other High Court.

6. b

Explanation: *In order to safeguard consumer health, FSSAI has fixed a limit for Total Polar Compounds at 25 percent beyond which the vegetable oil shall not be used. From 1st July, 2018 onwards, all Food Business Operators (FBOs) are required to monitor the quality of oil during frying by complying with the said regulations. Repurpose Used Cooking Oil (RUCO) is an ecosystem that will enable the collection and conversion of UCO to biodiesel.*

7. d

Explanation: The jurisdiction and powers of the Supreme Court can only be extended by the Parliament. It cannot curtail them. This, provision ensures independence of the Supreme Court of India.

The Supreme Court enquires into the conduct of the Chairman and members of the Union

Public Service Commission (UPSC) on a reference made by the President and not the Parliament.

8. d

Explanation: All the options are correct. Self explanatory

9. b

Explanation: Catalytic converters, having expensive metals namely platinum-palladium and rhodium as the catalysts, are fitted into automobiles for reducing emission of poisonous gases.

10. a

Explanation: **In South Asia**, out of 20 most polluted cities in the world, 18 are in India, Pakistan, and Bangladesh.

Of the cities included in South Asia, it is interesting to note that, although Delhi typically receives most media coverage as one of the world's "pollution capitals", the Indian capital "only" ranks 10th for annual PM2.5 concentration. Other cities across Northern India and Pakistan have a higher recorded annual PM2.5 level, with nearby Gurugram narrowly resulting in the highest annual concentration of any global city recorded here during 2018.

11. b



Explanation: Rani-ki-Vav, on the banks of the Saraswati River, was initially built as a memorial to a king in the 11th century AD. Stepwells are a distinctive form of subterranean water resource and storage systems on the Indian subcontinent, and have been constructed since the 3rd millennium BC.

Rani-ki-Vav was built at the height of craftsmen's ability in stepwell construction and the Maru-Gurjara architectural style, reflecting mastery of this complex technique and great beauty of detail and proportions. Designed as an inverted temple highlighting the sanctity of water, it is divided into seven levels of stairs with sculptural panels of high artistic quality; more than 500 principle sculptures and over a thousand minor ones combine religious, mythological and secular imagery, often referencing literary works.

12. a

Explanation: Parliament or the Union Legislature has very limited jurisdiction in case of J&K as compared to other states. The Parliament has no power to legislate Preventive Detention laws for the state; only the state legislature has the power to do so.

13. d

Explanation: A debenture is one of the capital market instruments which is used to raise medium or long term funds from public. A debenture is essentially a debt instrument that acknowledges a loan to the company

and is executed under the common seal of the company.

Convertible debentures: Holders of such debentures are given option to convert the debentures fully or partly into equity shares or preference shares

Nonconvertible debentures: The holders of this type of debentures do not have any right to convert them into equity shares etc.

14. c

Explanation: 4th statement alone wrong. In general, the amount of water vapour decreases as we move from equator to poles

15.a

Explanation:

River-0.0001%

Atmosphere- 0.0019%

Inland Seas-0.0090%

Ground water-0.68%

Ice caps-2.0%

16. a

Explanation: Central Highlands forms the northernmost boundary of the Deccan plateau. It is a classic example of the relict mountains which are highly denuded and form discontinuous ranges. This region has undergone metamorphic processes in its geological history, which can be corroborated by the presence of



metamorphic rocks such as marble, slate, gneiss, etc. Most of the tributaries of the river Yamuna have their origin in the Vindhyan and Kaimur ranges which is located in central Highlands.

17. a

Explanation: The Pung cholom is a Manipuri dance. It is the soul of Manipuri Sankirtana music and Classical Manipuri dance. The Pung Cholom is a unique classical dance of Manipur. This dance may be performed by men or women and is usually a prelude to the Ras Lila.

In this style, the dancers play the pung (a form of hand beaten drum) while they dance at the same time. Dancers need to be graceful and acrobatic at the same time. They use these acrobatic effects without breaking the rhythm or flow of music. The dance is marked by a gentle rhythm, which gradually builds up to a thunderous climax. Pung cholom borrows elements from the Manipuri martial arts ThangcTa and Sarit Sarak and also from the traditional Maibi Jagoi dance.

18. a

Explanation: Human activities can accelerate the rate at which nutrients enter ecosystems. Runoff from agriculture and development, pollution from septic systems and sewers, and other human-related activities increase the flux of both inorganic nutrients and organic substances into

terrestrial, aquatic, and coastal marine ecosystems.

19. b

Explanation: Super straw management system will be attached to self-propelled combine harvesters, which cuts paddy straw into small pieces and spread same. With this method, farmers are not required to burn paddy straw before sowing the next crop.

20. d

Explanation: during the time of Firuz Shah, Sanskrit books on medicine and music were translated into Persian.

In the late 14th century, the predecessor of Firoz Shah Tughlaq, taxed all Hindus but had exempted all Hindu Brahmins from jizya. Firoz Shah extended it over all Hindus. He also announced that any Hindus who converted to Islam would become exempt from taxes and jizya as well as receive gifts from him.

21. d

Explanation: Presence of a single God was the central point of Kabir's teachings. God is unlimited, endless, pure, omniscient and omnipotent. With pure thoughts and a pure heart one can devote himself towards God. No formal rites or rituals are required. However, the devotee should surrender himself completely at the feet of God to receive His blessings.



Kabir did not believe in idol worship nor did he believe in caste system. Reacting to the authority of the Vedas and the Quran he put emphasis on the inner virtues of man. He did not consider it necessary to abandon the normal life of a householder for the sake of a saintly life

22. b

Explanation:

National Human Rights Commission- Protection of Human Rights Act, 1993

Central Bureau of Investigation- works under the jurisdiction of the Government of India through Home Ministry resolution dated 1.4.1963

Central Information Commission- Right to Information Act, 2005.

23. c

Explanation: The number of other Election Commissioners, if any would be fixed from time to time by the President. The salary of Election commissioner is not a charged expenditure on the Consolidated fund of India and hence can be voted upon by the Parliament.

24. c

Explanation: Palau is set to become the first country to impose a widespread ban on sunscreen in an effort to protect its vulnerable coral reefs. Researchers believe that the ingredients of sunscreen are highly

toxic to marine life, and can make coral more susceptible to bleaching.

25. a

Explanation:

Lord Irwin (1926-1931)

1. Visit of Simon commission to India(1928)
2. Dandi March by Gandhi(March 12 1930)
3. Boycott of First Round Table Conference(1930)
4. Poona Pact(1932) under Lord Willingdon

26. a

Explanation: An fMRI scan is a functional magnetic resonance imaging scan that measures and maps the brain's activity. An fMRI scan uses the same technology as an MRI scan. An MRI is a non-invasive test that uses a strong magnetic field and radio waves to create an image of the brain.

27. c

Explanation: NASA-ISRO Synthetic Aperture Radar (NISAR) is a joint project between NASA and ISRO to co-develop and launch a dual frequency synthetic aperture radar satellite to be used for remote sensing. It is notable for being the first dual-band radar imaging satellite.

ISRO launched its heaviest rocket, Geosynchronous Satellite Launch Vehicle-Mark III



(GSLV-Mk III), on 5 June 2017 and placed a communications satellite GSAT-19 in orbit.

Indian Remote Sensing satellites (IRS) are a series of earth observation satellites, built, launched and maintained by ISRO. All the satellites are placed in polar Sun-synchronous

Orbit.

28. a

Explanation: *The Madhya Pradesh forest department has written to the National Tiger Conservation Authority to revive the plan to reintroduce cheetahs in the State's Nauradehi sanctuary. The ambitious project, conceived in 2009, had hit a roadblock for want of funds.*

29. c

Explanation: Taj Declaration to Beat Plastic Pollution was adopted as part of which efforts would be made to make the 500-metre area around the historic ivory-white marble monument litter-free and phase out single-use plastic.

30. d

Explanation: Nothing in the known universe travels faster than light according to the theory of relativity (meaning more velocity leads to gain in mass and slowdown, so nothing travels faster than light). And neutrinos are found to travel at the speed of light and not faster.

Neutrinos have a minuscule, but non-zero mass $\leq 0.120 \text{ eV}/c^2$

31. d

Explanation: Uniform circular motion can be described as the motion of an object in a circle at a

constant speed. As an object moves in a circle, it is constantly changing its direction. Accelerating objects are objects which are changing their velocity - either the speed (i.e., magnitude of the

velocity vector) or the direction. Therefore, an object moving in a circle is accelerating.

Since the direction of the velocity vector is the same as the direction of the object's

motion, the velocity vector is directed tangent to the circle as well. Therefore, in all

instances, the object is moving tangent to the circle.

32.a

Explanation: Ice Cube is a particle detector at the South Pole that records the interactions of a nearly massless subatomic particle called the neutrino. Ice Cube searches for neutrinos from the most violent astrophysical sources: events like exploding stars, gamma-ray bursts, and

cataclysmic phenomena involving black holes and neutron stars. The Ice Cube telescope



is a powerful tool to search for dark matter and could reveal the physical processes

associated with the enigmatic origin of the highest energy particles in nature.

33. d

Explanation: Constitution does not specify the official language of different states. It is the legislature of a state that may adopt any one or more of the languages in use in the state or Hindi as the official language of that state, not the Governor of state. Until that is done, English is to continue as official language of that state. The choice of the state is not limited to the languages enumerated in the Eighth Schedule of the Constitution.

34. d

Explanation: This was introduced in 1878 by Lord Lytton. This Act was popularly known as

Vernacular Press Act. It was enacted to curtail the freedom of the Indian press and prevent

the expression of criticism toward British policies—notably, the opposition that had grown

with the outset of the Second Anglo-Afghan War (1878–80).

It was repealed by Lord Ripon in 1882.

35. d

Explanation: Ahrar Movement was a movement founded in 1910 under the leadership of Maulana Muhammed Ali Hakim Ajmal Khan.

This movement was in opposition to the loyalist politics of the Aligarh movement, its members advocated active participation in the nationalist movement. Ahrar movement was moved by the modern ideas of self-government, its member advocated active participation in the nationalist movement.

36. d

Explanation: The largest number of paintings belonged to period II which is Mesolithic.

Hunting science were predominant in Mesolithic. The prehistoric paintings are depicted on the walls of rock shelters of bhimbetka, lakhudiyar, kapagilu etc.

37.c

Explanation: All India Depressed Classes Association was founded by leaders of depressed

Classes (M.C.Rajah)

38. c

Explanation: ASI was established in 1861 by Alexander Cunningham. Collin Mackenzie was made the first Surveyor General of India.

39.b



Explanation:

Section 12(3) of the RTI Act 2005 provides as follows.

- (i) The Prime Minister, who shall be the Chairperson of the committee;
- (ii) The Leader of Opposition in the Lok Sabha ; and
- (iii). A Union Cabinet Minister to be nominated by the Prime Minister.

40.b

Explanation:

1. National Register of Citizens, 1951
2. Assam Accord, 1971
3. Land Boundary Agreement, 1974
4. Illegal Migrant Determination Tribunal, 1988

41. a.

Explanation: It is calculated by GFN and WWF.

42. a

Explanation: Growth can be both negative as well as positive. Statement 2 is wrong

43. a

Explanation: *Skewflation means the skewness of inflation among different sectors of the economy — some sectors are facing huge inflation, some none and some deflation.*

44.c

Explanation: The Bill amends the Citizenship Act, 1955 to make illegal migrants who are Hindus, Sikhs, Buddhists, Jains, Parsis and Christians from Afghanistan, Bangladesh and

Pakistan, eligible for citizenship.

Under the Act, one of the requirements for citizenship by naturalisation is that the

applicant must have resided in India during the last 12 months, and for 11 of the

previous 14 years. The Bill relaxes this 11 year requirement to six years for persons

belonging to the same six religions and three countries.

The Bill provides that the registration of Overseas Citizen of India (OCI) cardholders

may be cancelled if they violate any law

45. d

Explanation: In News. Self Explanatory

46. c

Explanation: Core inflation is the change in costs of goods and services, but does not include those from the food and energy sectors. This measure of inflation excludes these items because their prices are much more volatile. It is thought to be an indicator of underlying long-term inflation.

47. a



Explanation: Amortization is the paying off of debt with a fixed repayment schedule in regular installments over time like with a mortgage or a car loan.

48. a

Explanation: Angel funds refers to a money pool created by high networth individuals or companies (generally called as angel investors), for investing in business start ups. They are a sub-category of venture capital funds with strict focus on startups, while venture capital funds generally invest at a later stage of development of the investee company.

49. d

Explanation: "Goods and Services Tax" Network (GSTN) is a nonprofit organisation formed for creating a sophisticated network, accessible to stakeholders, government and taxpayers to access information from a single source (portal). The portal is accessible to the Tax authorities for tracking down every transaction, while taxpayers have the ability of connect for their tax returns.

50. a

Explanation: Coffee requires warm and wet climate for growth while Tea require cool and wet climate for its growth

51. d

Explanation: The North and North-west of the Kalahari is subject to the alternation

"Intertropical Convergence Zone (ITCZ)/"Continental Trade winds". The ITCZ generates rains in the wet season, whereas the continental trade winds cause the dry season. It receives too much rainfall - between 5 and 10 inches annually. Through the vast expanses of sand, precipitation filters rapidly, leaving nothing on the surface, which have made the Kalahari into the "thirstland"

52. c

Explanation: Refer Atlas

53. c

Explanation: Depreciation strengthens inflationary forces. When the inflation rises, prices of goods and commodities shoots up. Therefore, the purchasing power of the rupee falls down.

A depreciation of the domestic currency results in higher import costs for the country. Exports become cheaper, more competitive to foreign buyers. Therefore, this provides a boost for domestic demand.

54. d

Explanation: According to Fugitive Economic Offenders" Act 2018, a person to be declared as a fugitive economic offender (FEO) if: (i) an arrest warrant has been issued against him for any specified offences where the value involved is over Rs 100 crore, and (ii) he has left the country and refuses to return to face prosecution.



55. d

Explanation: To ensure that banks don't go bust, RBI has put in place some trigger points to assess, monitor, control and take corrective actions on banks which are weak and troubled. The process or mechanism under which such actions are taken is known as Prompt Corrective Action, or PCA.

56. d

Explanation: India granted voting rights to transgenders in 1994. The Sixty-first Amendment of the Constitution of India, officially known as the Constitution (Sixty-first Amendment) Act, 1988, lowered the voting age of elections to the Lok Sabha Legislative Assemblies of States from 21 years to 18 years..

Shabnam Mausi Bano was elected India's first transgender Member of the Legislative

Assembly (MLA) in 1999 from Madhya Pradesh's Sohagpur constituency.

In a landmark decision in National Legal Services Authority vs Union of India case 2014, the

Supreme Court of India recognized the transgender as the third gender. It directed the

government to treat transgender persons as socially and educationally backward classes

and extend all kinds of reservation in government jobs and higher education to them under

the OBC quota. However, the above direction is not yet fulfilled by the government.

The Transgender Persons (Protection of Rights) Bill, 2016 is yet to be enacted. Moreover, it

is not yet confirmed that whether the bill will provide for reservation for the transgender

community or not.

57. d

Explanation: The Finance Act of 2017 amends various laws, including the Representation of the People Act of 1951, the Income Tax Act and the Companies Act. The Finance Act of 2016 makes changes in the Foreign Contribution (Regulation) Act of 2010. *The Reserve Bank of India Act was also amended to enable the issuance of electoral bonds, which would be sold through notified banks.*

58. d

Explanation: *According to Article 12 of the Constitution of India, the term 'State' can be used to denote the union and state governments, the Parliament and state legislatures and all local or other authorities within the territory of India or under the control of the Indian government. Local authorities' refers to authorities like Municipalities, District Boards, Panchayats, Improvement Trust and Mining Settlement Boards. The expression 'Other authorities'*



could refer to any entity that exercises governmental or sovereign functions.

59. a

Explanation: On March 18, 1910, Mr. Gokhale, in moving a resolution in the Imperial Legislative Council, recommended that a beginning be made in the direction of making elementary education free and compulsory throughout the country, and that a mixed commission of officials and non-officials be appointed to frame definite proposals.

60. d

Explanation: Quit India Movement (August 1942), Desai Liaquat Pact (January 1945), Wavell Plan (May 1945), Cabinet Mission (February 1946)

61. a

Explanation: At the Nagpur session of the Indian National Congress in December 1920 the programme of non-cooperation was endorsed. The Congress decided to have the attainment of swaraj through peaceful and legitimate means as its goal. Provincial Congress Committees on linguistic basis were organised. Gandhi declared that if the non-cooperation programme was implemented completely, swaraj would be ushered in within a year.

- All India Youth Congress was formed through Calcutta Session of 1928.

62. d

Explanation: The key components of this Bill include: establishment of a DNA Regulatory Board; accreditation of DNA laboratories undertaking DNA testing, analysing, etc.; establishment of the National and Regional DNA Data Banks, as envisaged in the Bill, will assist in forensic investigations. This will aid in scientific up-gradation and streamlining of the DNA testing activities in the country with appropriate inputs from the DNA Regulatory Board which would be set up for the purpose.

63. b

Explanation: *General consent is the periodic approval by a State government to the CBI and other agencies covered by Delhi Special Police Establishment Act, 1946. Chattisgarh, West Bengal and Andhra Pradesh withdrew the General consent for the CBI.*

64. a

Explanation: Refer Atlas

65. b

Explanation: Refer Atlas

66. a

Explanation: Refer Atlas

67. c

Explanation: Refer Atlas. Beaufort sea is part of Arctic ocean



68. d

Explanation: National Waterway 6 proposed between Laxhipur and Bhanga of the Barak River. National Waterway 3 connects Kottapuram to Kollam

69. b

Explanation: Watermelon, muskmelon and cucumber are important zaid crops

70. c

Explanation: Since water does not penetrate the rocks easily and hence igneous rocks are less affected by chemical weathering. Sedimentary rocks make up a relatively thin layer of rock that covers about 75 percent of the Earth's land area.

71. d

Explanation: Refer Atlas

72. b

Explanation: Computer scientists from Indian Institute of Technology (IIT), Madras have developed the first of family of six industry-standard microprocessors under Project Shakti (which started in 2014 as an IIT-Madras initiative and a part of it is funded by Ministry of Electronics and Information Technology).

The initial batch of 300 chips have been named RISECREEK and have been fabricated at Intel's facility at Oregon, the US for free to run Linux operating system. The IT team says its microprocessors can be

adapted by others, as the design is open source. They optimise power use and compete with international units such as the Cortex A5 from Advanced RISC Machines (ARM).

73. d

Explanation: West Nile infection was recently reported in Kerala. West Nile fever is a viral infection which can cause neurological disease as well as death in people. It is commonly found in Africa, Europe, the Middle East, North America and West Asia. It was first detected in a woman in the West Nile district of Uganda in 1937, the virus was later identified in birds (crows and Columbiformes) in the Nile delta region in 1953.

According to the World Health Organisation (WHO), the virus is a member of the flavivirus genus and belongs to the Japanese encephalitis antigenic complex of the family Flaviviridae.

The disease is transmitted to humans through mosquito bites. Mosquitoes become infected when they feed on infected birds, which circulate the virus in their blood for a few days. The virus gets transmitted into the mosquito's salivary glands, from where it is injected into humans as well as animals through mosquito bites. The virus can multiply in the process and possibly cause illness.

Till date, no human-to-human transmission through casual contact has been reported. A



very small proportion of human infections have occurred through organ transplant, blood transfusions and breast milk while one case of transplacental (mother to child) transmission has been reported.

It is a single-stranded RNA virus that causes West Nile fever. The infection is either asymptomatic (no symptoms) or can result in West Nile fever or severe West Nile disease. People infected with WNV suffer from fever, headache, fatigue, body aches, nausea, vomiting, occasionally with a skin rash (on the trunk of the body) and

swollen lymph glands.

Treatment of West Nile fever: Those infected with the virus are required to be hospitalized and put on respiratory support and intravenous fluids. No vaccine is available for humans. Prevention of infection in health care set-up Health care workers caring for patients with suspected or confirmed WNV infection, or handling specimens from them, should strictly follow standard infection control precautions. The samples taken from people and animals with suspected WNV infection should be handled by trained staff working in suitably equipped laboratories.

74. a

Explanation: India is in talks with the United States to procure National Advanced Surface-to-Air Missile System-II (NASAMS-II). It is an advanced air defence system and highly adaptable mid-range solution for any operational air defence requirement. It

provides tailorable, state-of-the-art defence system that can maximise the ability to quickly identify, engage and destroy current and evolving enemy aircraft, UAV or emerging cruise missile threats. The missile itself is named SLAMRAAM.

It is a part of the air defence network guarding US capital city Washington DC. It is also deployed in several NATO countries. This system will help in preventing 9/11-type attacks [when terrorists flew hijacked planes into New York's World Trade Center] on Delhi.

75. b

Explanation: India announced a capacity building programme UNNATI (UNISpace Nanosatellite Assembly & Training by ISRO) on Nanosatellites development through a combination of theoretical coursework and hands-on training on Assembly, Integration and Testing (AIT) in June 2018 to celebrate the 50th anniversary of the first United nation conference UNISPACE+50. U R Rao Satellite Centre (URSC) being the lead centre of ISRO for satellite building has designed the basic structure of this programme with equal emphasis on theoretical and practical exposure. The primary objective of the programme is to provide theoretical course on Satellite technology, comprehensive course on Nanosatellite realization and hands-on training to assemble, integrate and test a low cost, modular Nanosatellite.

76. a



Explanation: It was crucial Cold War-era treaty banning development, testing and possession of short and medium range ground-launched nuclear missiles with range of 500-5,000 km. The treaty was signed in December 1987 between then US President Ronald Reagan and his

USSR counterpart Mikhail Gorbachev. This treaty was central to ending arms race between

two superpowers during cold war and protected America's NATO allies in Europe from

Soviet missile attacks.

77. d

78.d

Explanation: According to Buddhist tradition, there were 24 past Buddhas before Buddha. Out of these 24 Buddhas first one is called as Dipankara. Shakyamuni was another name of Gautama Buddha. Rishabhdeva was first Tirthankara of Jainism. Maitreya is future Buddha to be born as last Buddha.

79. a

Explanation: Kutagarashala – literally, a hut with a pointed roof – or in groves where travelling mendicants halted. Debates between philosophers took place here. If a philosopher

succeeded in convincing one of his rivals, the followers of the latter also became his

disciples. So, support for any particular sect could grow and shrink over time. Buddhist

texts, mention as many as 64 sects or schools of thought. Teachers travelled from place

to place, trying to convince one another as well as laypersons, about the validity of their

philosophy or the way they understood the world.

80. b

Explanation : Statements 1 and 2 both are correct. Under *batai* the peasant was given a choice of paying in cash or kind. So the statement 3 is wrong.

81. c

Explanation: Teflon is manufactured by heating tetrafluoroethene with a free radical or persulphate catalyst at high pressures. It is chemically inert and resistant to attack by corrosive reagents. It is used in making oil seals and gaskets and also used for non – stick surface coated utensils.

Other advantage of Teflon is its versatility, and the range of applications over so many products and different industries for this material is staggering. The use of teflon can have massive benefits in manufacturing and engineering, not just in making tubes or liners for handling or storing corrosive chemicals, but by coating parts such as bearings or screws to increase the lifetime of



both the parts themselves and the machinery they are part of.

82. a

Explanation: DRDO, Hindustan Aeronautics Limited and IAF successfully tested the Smart Anti-Airfield Weapon recently. Indigenously designed and developed guided bombs Smart Anti Airfield Weapon (SAAW) was successfully flight tested recently. The weapon system is integrated with warhead and can destroy the targets with high precision. It is a 120 Kg class smart weapon designed to be capable of engaging ground targets with high precision up to a range of 100 km.

SAAW is specially designed to destroy runways, bunkers, aircraft hangars and other reinforced structures. It is an anti-airfield glide bomb. A glide bomb or stand-off bomb is a standoff weapon with flight control surfaces to give it a flatter, gliding flight path than that of a conventional bomb without such surfaces. This allows it to be released at a distance from the target rather than right over it, allowing a successful attack without the aircraft needing to survive until reaching the target.

83.b

Explanation: When microbes encounter a surrounding like a high concentrated sugar state or solution (**hypertonic**), water diffuses out of the permeable cellular membrane of the microbe to its outer environment with high sugar concentration causing

dehydration of the microbe and it leads to shrinking of cell. As water is necessary for chemical reactions inside the cell, the natural metabolism is hindered. The phenomenon of contraction of a cell as a result of water loss is called **plasmolysis** and the food preservation technique is called **sugar curing**.

84.c

Explanation: The concept of equality implies that all people, as human beings, are entitled to the same rights and opportunities to develop their skills and talents, and to pursue their goals and ambitions.

85.a

Explanation: Indian parliament is not a sovereign body like the British Parliament.

86.d

87.d

Explanation: The cane price announced by the central government is decided on the basis of the

recommendations of the Commission for Agricultural Costs and Prices (CACP) after consulting

the state governments and associations of sugar industry.

The final FRP is arrived by taking into account various factors such as cost of production, domestic and international prices, overall demand-supply situation, inter-



crop price parity, terms of trade prices of primary by-products and its impact on general price level and resource use efficiency.

88. . c

Explanation: Pattiseema lift irrigation project links the Godavari river and the Krishna river in Andhra's West Godavari district. It was designed to lift 120 tmcft (thousand million cubic feet) water from Godavari and release it into the Krishna. It sought to meet the irrigation and drinking water needs of drought-prone Rayalaseema region in the state. It was declared as the first and fastest such irrigation project in the country to be completed on time, without any budget enhancements. It is claimed to be the first-ever river interlinking in South India.

89. d

Explanation: Third pole is in the region which is to the north of India and to the south of China. The Third Pole region spreads across the Himalaya-Hindu Kush mountain ranges and the Tibetan Plateau. It is called the Third Pole because it contains the third largest expanse of frozen water on earth. It is much smaller in area than the north or the south pole, but is still enormous, covers 100,000 square kilometres and has around 45,000 glaciers. Ten of Asia's largest rivers begin in the third pole. These include the Yellow river and Yangtze river in China, the Irrawaddy river in Myanmar, the Ganges which flows through India and Bangladesh, and the Mekong river that flows through

several countries. It has the largest reserve of fresh water outside the two major polar regions and its waters sustain life over many thousands of miles.

90. c

Explanation: Bhagat Singh, Sukhdev and Rajguru were tried in Lahore Conspiracy case

91. d

Explanation: India is not a member of UN Refugee Convention (1951) grants certain rights to

people fleeing persecution. The Convention builds on Article 14 of the 1948 Universal

Declaration of Human Rights, which recognizes the right of persons to seek asylum from

persecution in other countries. The 1967 Protocol included refugees from all countries as

opposed to the 1951 Convention that only included refugees from Europe.

92. c

Explanation: Article 35A is a provision incorporated in the Constitution through a Presidential Order – The Constitution (Application of Jammu and Kashmir) Order of 1954, giving the J&K State Legislature a complete say in deciding who the 'Permanent Residents' of the State are.



93. d

Explanation: The government set new target to achieve 20% ethanol blending in petrol and 5% blending in diesel by 2030. Currently, the ethanol blending target is maintained at abysmal level of 2%

94.c

95. a

Explanation: It is Listed in Schedule I of the Indian Wildlife (Protection) Act, 1972, in the CMS Convention and in Appendix I of CITES, as Critically Endangered on the IUCN Red List and the National Wildlife Action Plan.

96. b

Explanation: Bioprospecting is the process of discovery and commercialization of new products based on biological resources. Despite indigenous knowledge being intuitively helpful, bioprospecting has only recently begun to incorporate such knowledge in focusing screening efforts for bioactive compounds.

Bioprospecting may involve biopiracy, the exploitative appropriation of indigenous forms of knowledge by commercial actors, and also includes the search for previously unknown compounds in organisms that have never been used in traditional medicine before.

97. b

Explanation: Zigzag technology is used to reduce air pollution and carbon emissions from the burning of bricks in brick kilns. In zigzag kilns, bricks are arranged to allow hot air to travel in a zigzag path. The length of the zigzag air path is about three times that of a straight line, and this improves the heat transfer from the flue gases to the bricks, making the entire operation more efficient.

98. d

Explanation:

Sunlight: Corals need to grow in shallow water where sunlight can reach them. Corals depend on the *zooxanthellae* (algae) that grow inside of them for oxygen and other things, and since these algae needs sunlight to survive, corals also need sunlight to survive. Corals rarely develop in water deeper than 165 feet (50 meters).

Clear water: Corals need clear water that lets sunlight through; they don't thrive well when the water is opaque. Sediment and plankton can cloud water, which decreases the amount of sunlight that reaches the *zooxanthellae*.

Warm water temperature: Reef-building corals require warm water conditions to survive. Different corals living in different regions can withstand various temperature fluctuations. However, corals generally live in water temperatures of 68–90° F or 20–32° C.

Clean water: Corals are sensitive to pollution and sediments. Sediment can create cloudy



water and be deposited on corals, blocking out the sun and harming the polyps. Wastewater discharged into the ocean near the reef can contain too many nutrients that cause seaweeds to overgrow the reef.

Saltwater: Corals need saltwater to survive and require a certain balance in the ratio of salt to water. This is why corals don't live in areas where rivers drain fresh water into the ocean ("estuaries").

99. d

Explanation: Jahangir in his work Tuzuk I Jahangiri recorded his observations on breeding and hybridisation. Gangadhara, in Gujarat wrote Lilavati karamdipika. Suddhantadipika and lilavati vyakhya. Akbar ordered to make mathematics as a subject of study. So, statements 3 & 4 are correct. Fiazi wrote Bijaganit. So statement 2 is wrong. Mughals knew the technique of production of gun powder. So, statement 1 is also wrong

100. b

Explanation: It is the point where the combined gravitational force of two large bodies is equal to the centrifugal force that is felt by a third body which is relatively smaller. This orbit has the advantage of allowing continuous monitoring of the sun.