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**CIVILS 360's PRELIMSURE 2020 TEST SERIES**

**GENERAL STUDIES PAPER-I**

**TEST 15**

Time Allowed: 2 Hours

Maximum Marks: 200

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**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. You have to enter your Roll Number/Name on the Test Booklet in the Box provided alongside. *DO NOT* write *anything* else on the Test Booklet.
3. This Test Booklet contains **100 items** (questions). Each item is printed only in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
4. You have to mark all your responses *ONLY* on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
7. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
8. **Penalty for wrong answers :**  
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
  - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
  - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be the same penalty as above to that question.
  - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

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1. Which of the following is/are the correct difference between an OLED TVs and LED TVs?

1. OLED TVs have LCD panels in the Television Set while LED does not have.
2. OLED TVs provide more contrast than LED TVs as each pixel is developed through individual LED crystals.
3. Rollable TVs are primarily LED TV technology while thin film TVs are made with OLED Technology

Select the correct answer using the codes given below:

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

2. Consider the following statements regarding Indian Data Relay Satellite System:

1. It is a new satellite series that plans to set up a communication system between the space assets of India.
2. These satellites will precede the experimental mission of Gaganyaan.

Choose the correct statements using the codes given below

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

3. It comes on quickly and is caused by unusually high temperatures, strong winds, and cloudless days, which allow increased solar radiation. This leads to high levels of evapotranspiration. The weather can become so hot, so fast that

it quickly sucks large quantities of moisture out of the soil and can lead to major crop losses. The above explanation is about:

- (a) Heat Island
- (b) Flash Drought
- (c) Dry Wind
- (d) Sahelization

4. The weight of a person standing in the hills and the same person standing in the sea level is:

- (a) Exactly equal in both cases.
- (b) Weight while standing in the hills is higher than that in the sea level.
- (c) Weight while standing in the hills is lower than that in the sea level.
- (d) None of the above

5. Which of the following statements is/are true regarding different states of matter?

1. Only 3 different states of matter are observable on Earth.
2. Plasma can only be produced in a laboratory condition.
3. There are only five different states of matter ever observed.

Select the correct answer using the codes given below:

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

6. Which of the following condition will be satisfied when a person in a free falling elevator?

- (a) The apparent weight is equal to the actual weight.
- (b) The apparent weight is less than the actual weight.

- (c) The apparent weight is more than the actual weight
- (d) The apparent weight is infinity.

7. Arrange the following states with respect to Gross State Domestic Product(GSDP) in descending order.

1. Maharashtra
2. Gujarat
3. Tamil Nadu
4. West Bengal

Select the correct answer using the code given below:

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

8. Consider the following statements regarding Project NETRA:

1. It is an early warning system in airspace which is designed exclusively for the Indian Armed Forces.
2. It has been developed by ISRO with the help of Russian space agency Roscosmos.

Choose the correct statements using the codes given below

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

9. Which of the statements given below is/are **incorrect** in respect of population of India?

1. India has highly uneven pattern of population distribution
2. The uneven spatial distribution of population in India suggests a close relationship between population and physical,

socioeconomic and historical factors

3. The period from 1901-1921 is referred as period of steady population growth
4. India has still not seen the launch of any Youth Policy

Select the answer using the codes given below

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

10. Silver iodide, potassium iodide and dry ice are commonly used:

- (a) Artificial cloud seeding techniques.
- (b) Inputs for the production of second generation biofuels.
- (c) Reducing global warming.
- (d) Alternatives for chemical fertilisers.

11. Leaves appear to be green in colour normally because:

- (a) It absorbs green wavelengths and reflects all the other colours of visible light.
- (b) Green colour is scattered the most after absorbing all the colours of visible light.
- (c) Human eye is most sensitive to the green colour wavelengths.
- (d) Green wavelength is reflected whereas other colours of visible light are absorbed.

12. Which of the following best describes the term 'Sea Ranching' sometimes seen in the news:

- (a) Farming of fish by enclosing them in protected environments and

- harvesting them from same environment.
- (b) Fish are reared in a controlled laboratory environment and let open into the sea
- (c) Mineral retrieval process that takes place on the ocean floor
- (d) Submersion of oil drilling equipment fully in deep ocean waters
13. Spindle nuclear transfer is related to which of the following procedures/techniques?
- (a) Nuclear Fusion
- (b) Three Parent Baby
- (c) Atomic Bomb
- (d) Gene Editing
14. Which of the following is the correct difference between centripetal and centrifugal force?
- (a) Centripetal and Centrifugal force have the same magnitude and opposite direction.
- (b) Centripetal and Centrifugal force have unequal magnitude and opposite direction.
- (c) Centripetal and Centrifugal force have unequal magnitude and same direction
- (d) There is no difference as both have the same direction and magnitude.
15. The orbital velocity of a satellite is related to which of the following factors?
1. Radius of the orbit
  2. Radius of the earth.
  3. Mass of the earth
  4. Mass of the satellite
- Select the correct answer using the codes given below:
- (a) 1, 2 and 4
- (b) 1, 3 and 4
- (c) 1, 2 and 3
- (d) 2, 3 and 4
16. Which of the following is/are true about Special Protection Group (SPG)?
1. The elite force was raised in 1991 in the wake of the killing of PM Rajiv Gandhi.
  2. Special Protection Group has got a statutory status through an act of Parliament
  3. SPG was formed on the recommendations of the Birbal Nath committee.
- Which of the following statements is/are true?
- (a) 1 and 3 only
- (b) 2 only
- (c) 2 and 3 only
- (d) All of the above
17. Shape of aeroplane's wings enable it to fly smoothly. The shape of aeroplane wings makes:
- (a) Air pressure on top of the wings will be lower than that under the bottom.
- (b) Rate of air flow on top of the wings will be lower than that under the bottom.
- (c) Drag force of the aeroplane higher than the thrust force.
- (d) Air pressure on top of the wings will be higher than that under the bottom.
18. Consider the following statements regarding gravitational waves:
1. They are ripples in the curvature of spacetime that propagate as waves at the speed of light.



2. Like electromagnetic waves, gravitational waves should exhibit shifting of wavelength due to the relative velocities of the source and observer
3. Einstein first predicted their existence and categorized them as a form of electromagnetic waves.

Select the correct answer using the code given below.

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

19. Freezing of water into ice cubes is a

- (a) Exothermic reaction
- (b) Physical process
- (c) Endothermic reaction
- (d) None of the above

20. Panna and Golconda the only two diamond mines of India are located in which of the following rock systems?

1. Vindhyan
2. Cuddapah
3. Dharwar

Select the correct answer using the code given below.

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

21. Which of the following is correct about "Neuralink"?

- (a) Neurotechnology company developing implantable brain-machine interfaces by Elon Musk.
- (b) New Artificial Intelligence arm of Microsoft.

- (c) Google's new interface using Artificial Neural Network Technology.
- (d) A new 3D MRI scanning device using Machine Learning(ML) developed by IIT-Madras

22. The presence of dark matter is speculated by scientists because of:

1. Constant expansion of the universe.
2. Light is affected by gravity.
3. Observation of gamma ray released due to collisions in space.

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

23. Consider the following statements with respect to Palthgadi Movement

1. It was started in the state of Andhra Pradesh.
2. Under Palthgadi Movement, tribals put up stone monoliths with engravings in order to enlighten Adivasi people about their constitutional and other rights.

Which of the following is/are **incorrect**?

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

24. Which of the following is/are true regarding the quantum computing technology?

1. Quantum computers use qubits instead of 2 in digital computing techniques.
2. Quantum computers are less power efficient than the traditional computers.
3. Quantum computers cannot operate in the room temperature as it does not provide a stable environment.

Select the correct answer using the codes given below

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

25. Consider the following statements with respect to Scheme for setting up of Plastic Parks

1. Government provides grant funding up to 50 per cent of the project cost under this scheme
2. Plastic parks are being developed by State Governments with the support of Ministry of Chemicals & Fertilizers.

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

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

26. Consider the following pairs:

Vitamins/Minerals	Related Disease
1. Vitamin B1	Beriberi
2. Vitamin D	Bone and tooth Decay
3. Iodine	Goitre

Which of the above statements is/are true?

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

27. Consider the following statements with respect to Sugar Industry:

1. Location of industry does not depend on the distance from cane producing regions
2. One will not find Sugar industry as one goes down south to the state of Tamil Nadu

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

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

28. Tomatoes have high antioxidant and anti-inflammatory properties due to:

- (a) Presence of rich source of proteins
- (b) Absence of carbohydrates and presence of natural fat content.
- (c) Presence of important vitamin sources.
- (d) Presence of phytochemical compounds.

29. Which among the plant tissue helps in ensuring flexibility of plant and ensure easy bending?

- (a) Collenchyma
- (b) Sclerenchyma
- (c) Parenchyma
- (d) Aerenchyma

30. Consider the following statements

1. Harmonized System is a six-digit identification code developed by the World Customs Organisation.
2. Khadi has been allocated a separate Harmonized System code by the Ministry of Commerce and Industry.

Which of the following is/are true?

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

31. Consider the following statements:

1. When annual per capita availability of water is less than 1700 cubic metres it is water stressed situation.
2. When annual per capita availability of water is less than 1000 cubic metres it is water scarce situation.
3. India is a water scarce country as per NITI Aayog.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) All are correct
- (c) 2 and 3 only
- (d) 1 and 3 only

32. Consider the following statements with respect to Global Exhibition on Services:

1. It is an attempt towards escalating the Indian services bar in the global arena by exploring 12 Champion Services Sectors.
2. GES 2019 SEPC is looking to promote e-Sports.

3. It is organised by the Ministry of Commerce and Industry in partnership with Services Export Promotion Council and the Confederation of Indian Industry.

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

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

33. Which of the following technologies can be observed in a 5G mobile network?

1. Massive MIMO
2. Full Duplex
3. Beam Forming
4. Millimeter Waves

Select the correct answer using the codes given below:

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

34. Budapest Convention sometimes seen in the news recently is associated with?

- (a) Cyber Crime
- (b) Protection of the Ozone Layer
- (c) Ballast Water Management
- (d) Civil Liability for oil pollution and damage

35. Thermo Flasks conserve heat of fluids kept inside by preventing heat transfer via :

1. Radiation
2. Convection
3. Conduction

Select the correct answer using the code given below.

- (a) 3 only

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

36. India's aspirations to increase the domestic solar energy production is inhibited by:

1. Absence of indogenous development of solar photovoltaic technology in India.
2. Complete dependence on foreign nations for solar wafer cells.
3. Absence of import duty for any solar cells designed from foreign countries.

Select the correct answer using the code given below:

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

37. Which of the following is/are used for disinfection of drinking water?

1. Chlorine
2. Phenyl
3. Chloramine
4. Ozone

Select the correct answer using the code given below.

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

38. Consider the following statements about LiDAR technology

1. It is a remote sensing technology that uses light in the form of a pulsed laser
2. It can be used to examine both topographic and bathymetric surface.

Which of the above statements is/are correct?

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

39. Which of the following comes under the purview of Right to Information Act, 2005?

1. Chief Justice of India
2. Central Bureau of Investigation
3. Political Parties
4. Reserve Bank of India

Select the correct answer using the code given below:

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

40. Consider the statements about coal deposits in India.

1. About 80% of coal deposits in India is of non-coking grade
2. Brown coal occur in Neyveli, Tamil Nadu
3. Tertiary coal deposits are located in Damodar Valley

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

41. Consider the following statements

1. Bromine is the only non-metal which is in liquid state at room temperature.
2. Mercury is the only metal which is in a liquid state at room temperature.

Choose the correct statements using the codes given below

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

42. The term “reverse transcription” refers to:

- (a) process in which a segment of DNA is copied into RNA strand.
- (b) The full range of mRNA molecules expressed by an organism.
- (c) process in which synthesis of complementary DNA takes place using an RNA template.
- (d) process where specific DNA pattern of a person is obtained from bodily tissues.

43. Consider the following statements

- 1. ICEDASH is Ease of Doing Business monitoring dashboard of the Indian Customs helping public to see the daily customs clearance times of import cargo.
- 2. This dashboard has been developed by the Director General of Shipping in collaboration with National Informatics Centre.

Which among the following is/ are true?

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

44. Which of the following statements is/are true regarding the Sonar?

- 1. It uses sound frequencies to determine the depth of a water resource.

2. It can only be used to measure the depth or distance.

Select the correct answer using the codes given below.

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

45. Relative Humidity of the air:

- (a) Increases with the increase in atmospheric temperature
- (b) Decreases with the increase in atmospheric temperature
- (c) Is not affected by the change in atmospheric temperature
- (d) Does not show any consistent behavior with the change in atmospheric temperature

46. Consider the statements regarding lysosomes.

- 1. They are called the suicidal bags of the cell
- 2. It is produced in the Rough endoplasmic reticulum.

Which of the above statements is/are true?

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

47. With reference to the Lithium Ion battery, consider the following statements:

- 1. The energy density of such batteries are higher when compared to the conventional nickel-cadmium battery.
- 2. Such batteries have a low self discharge when compared to conventional batteries.

3. They are less expensive when compared to nickel-cadmium battery.

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

48. Consider the following statements with respect to Wastelands Atlas - 2019:

- 1. Wastelands Atlas provides robust geospatial information on wasteland.
- 2. It also provides State and district wise distribution of different categories of wastelands area in the country.
- 3. It is published jointly by the Department of Land Resources and National Remote Sensing Centre.

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

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

49. The movement of materials from leaves to other tissues throughout the plant is known as

- (a) Guttation
- (b) Translocation
- (c) Transpiration
- (d) None of the above

50. Consider the following statements:

- 1. Opencast mining techniques are used for minerals found at shallower depths whereas

underground mining is used for extraction at deeper depths.

- 2. Land deformation is induced by underground mine and opencast mining activities.

Which of the above statements is/are correct?

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

51. Consider the following statements regarding petroleum and natural gas reserves in India;

- 1. India's largest oil reserves are found in Western offshore sites whereas the largest natural gas reserves are found in Eastern offshore sites.
- 2. Among the states, Gujarat is the largest contributor of oil reserves in India.

Choose the correct statements using the codes given below

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

52. A new optical disc format known as the Blu-ray Disc (BD) is becoming popular. In what way is it different from the traditional DVD?

- 1. DVD supports Standard Definition video while BD supports High Definition video.
- 2. Compared to a DVD, the BD format has several times more storage capacity.
- 3. Thickness of BD is 2.4 mm while that of DVD is 1.2 mm.

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

53. Which of the following processes mentioned involve gene editing techniques?

- 1. Vegetative propagation
- 2. Budding of plants
- 3. Tissue Culture

Select the correct answer using the code given below:

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

54. Consider the following statements regarding Virtual Currencies or Crypto Currencies:

- 1. The Crypto Currencies don't have any intrinsic value and are not backed by any kind of assets.
- 2. Cryptocurrencies are less volatile than the conventional currencies.
- 3. The Government or the Reserve Bank of India has not authorised any VCs as a medium of exchange.

Which of the above statements is/are true?

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

55. Which of the following is/are the difference between VoLTE and LTE?

- 1. Only data is available over LTE technology while both Voice and Data is available through VoLTE.
- 2. LTE provides smaller bandwidths and slower speeds for data connections than VoLTE.
- 3. Video Calling without the help of a third party app like Skype is only possible through VoLTE.

Select the correct answer using the codes given below:

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

56. Consider the following statements about Methane hydrates:

- 1. Methane hydrate is a natural gas extracted from coal beds.
- 2. Kerala- Konkan basin is a potential resource of methane hydrates.

Which of the above statements is/are correct?

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

57. Tapan Ray Committee sometimes seen in the news is:

- (a) To review Income Tax Act, 1961
- (b) To spell out revival plans for Telecom sector
- (c) To review the supervisory framework for Core Investment Companies
- (d) To set guidelines for transfer of RBI's surplus funds to government

58. Objects lying in space orbits are weightless and they tend to float because:

- (a) They lie above the Earth's atmosphere.
- (b) They experience zero gravity in space orbits.
- (c) They are in orbital motion and tend to exhibit free fall.
- (d) Both a and b

59. Which of the applications mentioned below is/are given normally through a Polar Satellites?

- 1. Tele Education
- 2. Resource exploration
- 3. Weather forecasting

Select the correct answer using the code given below:

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

60. Which of the following physical phenomenon causes the water to stay in bucket while rotated in a vertical circle?

- (a) Inertia
- (b) Momentum
- (c) Gravitational force acting on water
- (d) Recoil Velocity

61. Fordow Nuclear Plant sometimes seen in the news recently was located in which of the following countries?

- (a) Iran
- (b) Russia
- (c) France
- (d) USA

62. Consider the following statements regarding a Nuclear Fusion reactor?

- 1. The primary process within the reactor is division of heavier nuclei to lighter one.
- 2. The fusion process results in creation of more severe and harmful byproducts when compared to nuclear fission reactor.

Select the correct answer using the codes given below:

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

63. Which of the following is/are the advantages of practicing drip irrigation?

- 1. Reduction in weed
- 2. Reduction in soil salinity
- 3. Reduction in soil erosion

Select the correct answer using the code given below.

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

64. With reference to the Genetically Modified Cotton, consider the following statements:

- 1. It is the only GM crop allowed to be cultivated in the country till now.
- 2. It involves insertion of genes of a soil bacterium into cotton seeds.
- 3. Herbicide tolerant variety of Bt Cotton has recently received the approval of the Genetic Engineering Appraisal Committee.

Select the correct answer using the code given below:

- (a) 1 only

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

65. When you woke up your personal digital assistant reads your schedule for the day. By 9:00AM your smartphone notifies that it's time to work and give direction suggestions for your travel to avoid traffic and delay. When you had food from a restaurant and return your smartphone asks you to review on the restaurant. When you travel to a foreign country your smartphone helps you to translate the speech of your professor in real time. In the context of emerging technologies, which one of the following term" best applies to the above scenario?

- (a) Augmented reality
- (b) Machine Learning
- (c) Quantum Computing
- (d) 5G

66. Consider the following statements:

1. Fly ash is a byproduct from burning pulverized coal in electric power generating plants.
2. Government of India has recently launched ASH TRACK app to provide an interface between fly ash producers and potential ash users.

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

67. Why is gypsum is added to the soil ?

- (a) To increase the soil alkalinity
- (b) To decrease the soil acidity
- (c) To decrease the soil alkalinity

- (d) To improve productivity by acting as an insecticide

68. The Agreement on Reciprocal Logistics Support (ARLS) sometimes seen in the news recently is a planned defence logistics pact between India and?

- (a) USA
- (b) Russia
- (c) Israel
- (d) Singapore

69. Consider the statements regarding Cloud technology:

1. Cloud based systems does not require any digital and physical infrastructure.
2. It helps in accessing files wherever it needed just with the help of an active internet connection.
3. Indian government did not adopt Cloud technology yet for any of its projects or schemes.

Which of the above statements is/are true?

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

70. Bitcoins is an increasingly popular digital currency. Which of the following can be the risks

associated with Bitcoins in India?

1. It has no statutory backing
2. Opaque transaction systems may encourage concealment of the real sources of money
3. Unregulated online transactions are susceptible to malware attacks and hacking

Select the correct answer using the code given below:

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

71. Consider the following statements regarding iron ore distribution in India;

- 1. Iron ore distribution in India is concentrated mainly in the plateau regions of the country.
- 2. Hematite and magnetite are the two most important iron ores in India.
- 3. Almost 75% of India's magnetite reserves are found in Karnataka alone.

Choose the correct statements using the codes given below

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

72. Identify the **wrong** statement:

- (a) Higgs Boson particles have negligible mass in nature.
- (b) Higgs Boson particles are included under the Standard model of particle.
- (c) These particles are not yet observed in real by researchers.
- (d) These particles are unstable in nature and breakdown into smaller particles.

73. Consider the following statements regarding 'Coronavirus' which was seen in the news recently;

- 1. Coronaviruses are a specific family of viruses with some of them causing less severe diseases

such as common cold whereas others causing respiratory and intestinal diseases.

- 2. It is given the name 'corona' due to its crown like appearance.
- 3. This virus is known to have affected humans only.

Choose the correct statements using the codes given below

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

74. Consider the following statements about Magnetospheric Multiscale Mission:

- 1. It has been launched by NASA.
- 2. It investigates how the Sun's and Earth's magnetic fields are related.

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

75. With respect to Documentation Identification Number (DIN) system, consider the following statements:

- 1. It aims to bring transparency and accountability in the indirect tax administration through widespread use of information technology.
- 2. It was launched by the Central Board of Indirect Taxes.
- 3. The Government is also planning the DIN system in the direct tax administration from April 2020 onwards.

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

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

76. With reference to the biofuels, consider the following statements:

- 1. Third generation biofuels are derived from algae.
- 2. Biodiesel can be obtained from the algae.
- 3. When compared with second generation biofuels, the productivity of third generation biofuels are higher.

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

77. Consider the following statement about 'Women wizard tech rule programme':

- 1. It is a programme launched by NASSCOM
- 2. It aims to increase the number of women in senior levels in the Information Technology industry.

Which of the above statements is/are correct?

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

78. With reference to the AGMARK Certification Scheme, consider the following statements:

- 1. Directorate of Marketing and Inspection is responsible for certification of AGMARK on products.
- 2. It is applicable for both the agricultural commodities meant for domestic trade and export.

Which of the above statements is/are correct?

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

79. With respect to Temporary Protected Status, consider the following statements:

- 1. It is a temporary status given to eligible nationals of designated countries who are present in the United States of America.
- 2. It was initially meant to aid people from countries facing wars or natural disasters.

Which of the above is/are correct?

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

80. Consider the following statements:

- 1. Increased production in pulses in the recent years made India self sufficient in case of pulses.
- 2. The percentage of agricultural imports in India has steadily decreased in the last five years.

Which of the above is/are correct?

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

81. Consider the statements regarding Trans Fatty Acids:

1. It contains saturated fatty acids having a trans arrangement of the carbon atoms adjacent to its double bonds.
2. Natural, or ruminant, trans fats occur in the meat and dairy from ruminant animals.
3. Process of hydrogenation is used to create artificial trans fatty acids

Select the correct answer using the codes given below

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

82. The application of Total Internal Reflection can be seen in:

1. Transmission of data through optical fibre cables.
2. Splitting of white light in a prism.
3. Mirages in the desert.

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

83. Consider the following statements regarding antibiotics:

1. They are a type of antimicrobial drug used in the treatment and prevention of bacterial infections.
2. Antibiotics are not effective against viruses such as the common cold, influenza etc

Which of the above statements is/are true?

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

84. Consider the following statements about Bioaerosols

1. Bioaerosols can be formed from fungi and bacteria only.
2. With higher humidity, higher bioaerosol levels can prevail.

Which of the above statements is/are correct?

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

85. Which type of coal has highest absolute presence in india?

- (a) Lignite
- (b) Anthracite
- (c) Bituminous
- (d) Peat

86. Consider the following statements

1. It is India's largest inland saltwater lake.
2. It is recognized as a wetland of international importance.
3. It is a key wintering area for tens of thousands of birds.

Identify the lake from the options:

- (a) Pangong Tso
- (b) Lonar Lake
- (c) Wular Lake
- (d) Sambhar Lake

87. With reference to coal gasification technology and syngas, consider the following statements:



1. It is one of the clean coal technologies where coal is converted into synthesis gas.
2. Syngas is a mixture of hydrogen, Sulphur dioxide and Nitrogen dioxide.
3. India's first coal gasification based fertilizer plant is to be established in Odisha.

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

88. With respect to Online Child Sexual Abuse and Exploitation Prevention/Investigation Unit, consider the following statements:

1. The unit does not have any power to probe offences covered under the Protection of Children from Sexual Offences Act and the Information Technology Act.
2. It was setup by the Ministry of Women and Child Development.

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

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

89. With reference to the reverse osmosis technology, consider the following statements:

1. External pressure is applied to initiate this process.
2. It helps to reduce the dissolved salts in solution and helps to purify the water.

Which of the above statements is/are true?

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

90. Consider the following statements with respect to Ashram Schools

1. These are residential schools which impart education to the children belonging to Scheduled Tribes.
2. The scheme provides for 100% central financing for the construction of ashram schools in naxal areas.
3. The Ministry of Tribal Affairs has the responsibility for running and overall maintenance of the schools.

Which of the statements given above is/are correct?

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

91. Consider the following statements:

1. Under the Mines and Minerals Act, only the Central Government can take action against the illegal mining activities.
2. Environmental pollution standards have been developed for iron ore mining under Wildlife Protection Act, 1972.

Which of the above statements is/are correct?

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

92. Uranium mineral is available at

1. Andhrapradesh
2. Karnataka
3. Jharkhand
4. Meghalaya

Select the correct answer using the code given below:

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

93. Consider the following statements about Greenhouse Gas Bulletin

1. It is an annual publication which reports the latest trends and atmospheric burdens of the most influential, long-lived greenhouse gases.
2. It is published by Greenpeace International.

Which of the following is/are true?

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

94. Gluten free foods are popular in the market. In this context, which of the following is most appropriate with respect to gluten?

- (a) It is an artificial sweetener used instead of refined sugar.
- (b) It is introduced into crops through genetically modified techniques.
- (c) It is naturally found in food crops and is an allergen to some humans.
- (d) It is made up by artificial mixing up of trans fats which cause many diseases.

95. SAANS Campaign was in the news recently, is related to

- (a) To reduce child mortality due to pneumonia
- (b) An anti-tobacco awareness campaign
- (c) AIDS awareness campaign
- (d) Cancer Awareness Campaign

96. Recently airports in India has initiated paperless travel with the help of Facial recognition. Which of the following data are used in the process of facial recognition?

1. Facial muscular structure
2. Retinal Scan
3. Geometric arrangement of facial features like eyes, nose etc
4. Finger print.

Select the correct answer using the codes given below:

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

97. Consider the following statements with respect to Jan Jagrukta Abhiyaan:

1. It aims to sensitize and mobilise the community on measures for prevention and control of Vector Borne Diseases.
2. It is an initiative of Ministry of Health and Family Welfare.

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

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

98. Consider the following statements:

1. Shale gas resources are extracted around the world commercially through open cast mining technology.
2. In India, the extraction of coal bed methane comes under the responsibility of Ministry of Petroleum and Natural Gas.

Which of the above statements is/are correct?

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

99. Consider the following statements.

1. FastTag uses active RFID technology
2. Passive RFID technology needs battery to operate
3. Unlike Barcode, RFID does not need line of sight

Which of the above statements is/are correct?

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

100. Consider the following statements:

1. Recombinant DNA is produced by combining DNA from two or more organisms.
2. The technology can be used to cure diseases like cancer and anemia.

Which of the above statements is/are correct?

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