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INSIGHTS REVISION TESTS FOR PRELIMS 2018

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TEST BOOKLET GENERAL STUDIES Paper---1



INSIGHTSIAS
SIMPLIFYING
IAS EXAM PREPARATION

Time Allowed : Two Hours

Maximum Marks : 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. *DO NOT* write *anything else* on the Test Booklet.
4. This Test Booklet contains **100** items (Questions). Each item is printed in both **Hindi** and **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.
5. You have to mark all your responses *ONLY* on the separate Answer Sheet provided. See direction in the answers sheet.
6. *All* items carry equal marks.
7. 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 sheets as per instruction sent to you with your Admission Certificate.
8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.
9. Sheet for rough work are appended in the Test Booklet at the end.
10. **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 **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. Which of the following statements is/are correct ?

1. Environmental Information System (ENVIS) is a centralized computerized network database system.
2. National Museum of Natural History was established to portray and promote awareness on the Natural Heritage of the country.

Select the correct answer using the codes below:

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

2. Which of the following statements is/are correct about National Green Corps ?

1. National Green Corps is a major initiative which aims at building cadres of under graduate and post graduate students working towards environmental conservation and sustainable development.
2. It is operated through Eco-clubs set up in colleges.

Select the correct answer using the codes below:

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

3. Which of the following statements is/are correct about Prithvi-II missile ?

1. It is powered by twin-engines which use liquid propulsion.
2. It also uses advanced inertial guidance system with manoeuvring trajectory to hit its target.
3. It is indigenously developed nuclear-capable surface-to-surface ballistic missile.

Select the correct answer using the codes below:

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

4. Which of the methods is/are used in stealth technology ?

1. Application of Radiation Absorbent Material coatings on aircraft.
2. Modification of shaping of the surfaces of aircrafts.
3. Reduction of infrared signature of aircrafts.

Select the correct answer using the codes below:

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

5. Which of the following statements is/are correct about missile NAG ?

1. Nag can be launched only from land.
2. Nag missile has been equipped with the highly advanced Imaging Infrared Radar (IRR) seeker along with integrated avionics.
3. HELINA is a version that can be used in high altitude battlegrounds.

Select the correct answer using the codes below:

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

6. Which of the following pairs of Missile names and their features is/are correct ?

<i>Missile Names</i>	<i>Features</i>
1. NIRBHAY	: Sub-Sonic Cruise Missile
2. ASTRA	: Supersonic surface-to-air missile
3. AKASH	: Air to Air Beyond Visual range Missile

Select the correct answer using the codes below:

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

7. Which of the satellites belong to Earth Observation Satellites as per ISRO's classification ?

1. CARTOSAT
2. RESOURCESAT
3. SARAL
4. RISAT
5. Megha-Tropiques
6. OCEANSAT

Select the correct answer using the codes below:

- (a) 1, 2 and 4 only
- (b) 1, 2, 4 and 6 only
- (c) 1, 2, 3, 4 and 6 only
- (d) 1, 2, 3, 4, 5 and 6

8. Which of the following statements is/are correct ?

1. Meteoroid is a small particle from a comet or asteroid orbiting the Sun.
2. Meteor is the light phenomenon which results when a meteoroid enters the Earth's atmosphere and vaporizers.
3. Meteorite is a meteoroid that survives its passage through the Earth's atmosphere and lands upon the Earth's surface.

Select the correct answer using the codes below:

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

9. Which of the following pairs of NASA's Missions/programmes/projects and their objectives are correctly matched ?

<i>Missions/projects</i>	<i>Objectives</i>
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- | | |
|------------------|--|
| 1. Dawn mission | : Mission to the two largest bodies in the asteroids belt – Vesta and Ceres. |
| 2. SOFIA Mission | : Observations of celestial magnetic fields, star-forming regions, comets and Saturn's giant moon Titan. |

3. Kilopower Project	: Creation of small nuclear power sources to fuel further space exploration.
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4. Orion spacecraft	: To take astronauts to deep space destinations.
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Select the correct answer using the codes below:

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

10. Which of the statements is/are correct regarding photosynthesis ?

1. Photosynthesis takes place only in leaves.
2. The leaves other than green also have chlorophyll.
3. All plants have chlorophyll.

Select the correct answer using the codes below:

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

11. Which of the following statements is/are correct about digestion process ?

1. The digested food pass into the blood vessels in the wall of the small intestine.
2. Small intestine absorbs water and some salts from the undigested food material.

Select the correct answer using the codes below:

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

12. Which of the following gases is/are responsible for acid rain ?

1. Carbon dioxide
2. Sulphur dioxide
3. Nitrogen dioxide

Select the correct answer using the codes below:

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

13. Which of the following statements is/are correct about soils ?

1. The best top soil for growing plants is clay.
2. The size of the clay particles is between that of sand and silt.

Select the correct answer using the codes below:

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

14. Which of the following statements is/are correct about respiration ?

1. Exhaled air contains both oxygen and carbon dioxide.
2. Breathing does not release energy.
3. Pyruvate is part of both aerobic and anaerobic respiration.

Select the correct answer using the codes below:

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

15. Which of the following statements is/are correct about International Space Station (ISS) ?

1. It is stationed in medium earth orbit.
2. It is a joint project among five participating space agencies.
3. The crew in ISS conduct experiments in biology, human biology, physics, astronomy and meteorology.

Select the correct answer using the codes below:

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

16. Cancrri, Epsilon, Pigase and Gliese are examples of which celestial bodies ?

- (a) Asteroids
- (b) Dwarf planets
- (c) Minor planets
- (d) Exoplanets

17. Which of the following statements is/are correct ?

1. ADITYA is the first indigenously designed and built tokamak of the country.
2. Aditya – L1 First Indian mission to study the Sun.

Select the correct answer using the codes below:

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

18. Arrange the following North Eastern states in decreasing order of bamboo bearing area in Recorded Forest Area as per Indian State of Forest Report 2017 ?

1. Arunachal Pradesh
2. Assam
3. Manipur
4. Nagaland

Select the correct answer using the codes below:

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

19. What is 'Good Practices Guidance (GPG)' developed by IPCC ?

- (a) It is a methodological guidance for estimating Green House Gases Inventories.
- (b) It is a comprehensive guidance for mitigating the risks of climate change.
- (c) It is a categorical guidance to Annex-I countries to reduce emissions.
- (d) It is a categorical guidance to Annex-II countries for Joint Implementation.

20. Which of the following statements is/are correct according to Indian State of Forest Report-2017 ?

1. Andhra Pradesh is ranked first among the states which have shown the net positive change in the forest cover followed by Karnataka and Kerala.
2. The reasons for increase in the forest cover in the above states are attributed to plantation and conservation activities which include commercial plantations.

Select the correct answer using the codes below:

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

21. Which of the following is considered as non-trade distorting subsidies ?

- (a) Amber box
- (b) Green box
- (c) Blue box
- (d) Red box

22. With reference to the Pradhan Mantri Matritva Vandana Yojana (PMMVY), consider the following statements:

1. Its benefits are available to all Pregnant Women & Lactating Mothers (PW&LM) except those in regular employment with the Central Government or State Government or Public Sector Undertaking
2. In case of infant mortality, mother will not be eligible for claiming benefits under the scheme, if she has already received all the instalments of the maternity benefit under PMMVY earlier

Which of the above statements is/are correct ?

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

23. Which of the following is/are *not* accorded Heritage City status by UNESCO ?

1. Galle
2. Ahmadabad
3. Old Delhi
4. Bhaktapur

Select the correct answer using codes below:

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

24. With reference to the Asia-Africa Growth Corridor or AAGC, consider the following statements:

1. It is an economic cooperation agreement between the governments of India, Japan and the African Union
2. It aims for Indo-Japanese collaboration to develop quality infrastructure in Africa

Which of the above statements is/are correct ?

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

25. With reference to the Advance Pricing Agreements (APAs) in India, consider the following statements:

1. APAs are signs of non-adversarial tax regime
2. India's APA is considered as regressive by international institutions and countries

Which of the above statements is/are correct ?

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

26. Which of the following statements is/are correct about microorganisms ?

1. Viruses reproduce only inside the host organism: bacterium, plant or animal cell.
2. Dead or weakened microbes are introduced in a healthy body during vaccination.
3. Yeast reproduces rapidly and produces carbon dioxide during respiration.

Select the correct answer using the codes below:

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

27. Which of the following statements is/are correct ?

1. Bacteria and algae are examples of eukaryotes.
2. Onion cells and cheek cells are examples of prokaryotes.

Select the correct answer using the codes below:

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

28. Which of the pairs of hormones and functions are correctly matched ?

<i>Hormones</i>	<i>Functions</i>
1. Vasopressin	: Ejection of milk during lactation
2. Oxytocin	: Regulation of Carbohydrate, fats and Protein metabolism
3. Adrenalin	: Adjustment of body to stress
4. Thyroxin	: Regulation of water and electrolyte balance

Select the correct answer using the codes below:

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

29. Which of the following statements is/are correct about nerve cells ?

1. Both rods and cones are photoreceptor cells.
2. Cones are sensitive to dim light whereas rods are sensitive to bright light.
3. Cones sense colour.
4. Cones are located at the central part of the retina whereas rods are located at the peripheral portion of the retina.

Select the correct answer using the codes below:

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

30. Which of the following statements is/are correct about GeneXpert test device ?

1. The technology used in the device allows for the rapid detection of TB and drug resistance to rifampicin in a single test.
2. It can be used to diagnose TB and HIV infections.
3. Conventional drug susceptibility testing against second-line anti-TB drugs is still necessary to confirm or exclude XDR-TB.

Select the correct answer using the codes below:

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

31. Terms 'Superposition' and 'Entanglement' are associated with which of the following ?

- (a) DNA sampling technique.
- (b) Quantum Computing.
- (c) Magnetic Levitation in Superconductors.
- (d) Plasma Confinement in Tokamaks.

32. Which of the following statements is/are correct about Gelator ?

1. It is hydrophilic and oleophilic material.
2. It is developed by Indian Institute of Science, Bengaluru.
3. It is used to recover marine oil spills.

Select the correct answer using the codes below:

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

33. Which of the statements is/are correct about Artificial Intelligence, Machine Learning and Deep Learning ?

1. Deep Learning is a subset of Artificial Intelligence.
2. Machine Learning is a subset of Deep Learning.
3. Deep Learning has been used in voice and image recognition.

Select the correct answer using the codes below:

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

34. Which of the following statements is/are correct about Collaborative Robots (Cobots) ?

1. Cobots are intended to work hand-in-hand with humans in a shared workspace.
2. Cobots need fencing for the protection of workers in the shop floor.
3. Kirobo is an example of a cobot.

Select the correct answer using the codes below:

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

35. Which of the following statements is/are correct about LTE and VoLTE ?

1. LTE and VoLTE are types of networks.
2. VoLTE support data usage and voice call simultaneously.
3. Both LTE and VoLTE are standards for high-speed wireless communication for mobile phones and data terminals

Select the correct answer using the codes below:

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

36. Which of the following statements is/are correct about Free Space Optical Communications (FSOC) technology ?

1. FSOC technology enables cable-less communication.
2. FSOC technology enables the communication through stratosphere.

Select the correct answer using the codes below:

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

37. Which of the following statements is/are correct about India's High Performance Computer (HPC) systems 'Mihir' and 'Pratyush' ?

1. Ministry of Electronics and Information Technology has acquired these facilities.
2. These are dedicated HPC systems for weather and climate purposes.

Select the correct answer using the codes below:

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

38. Which of the following statements is/are correct about climate change as per Intergovernmental Panel for Climate Change (IPCC) ?

1. It is a significant variation in either the mean state of the climate or in its variability.
2. It may be due to natural internal processes or external forces.
3. It may be due to persistent anthropogenic changes in the composition of the atmosphere or in land use.

Select the correct answer using the codes below:

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

39. Which of the following is/are the salient points of India's Intended Nationally Determined Contribution (INDC), which will be achieved by 2030 ?

1. To achieve about 30 per cent cumulative electric power installed capacity from non-fossil fuel based energy resources.
2. To create an additional carbon sink of 2.5 to 3 billion tonnes of CO₂.
3. To reduce the emissions intensity of its GDP by 22 to 25 per cent.

Select the correct answer using the codes below:

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

40. Which of the following statements is/are correct about the relation between green house and ozone depletion ?

1. The loss of ozone means slightly more heat can escape into space from that region.
2. CFCs that destroy ozone are also potent greenhouse gases.
3. Global warming is also predicted to impact on the Antarctic ozone hole.

Select the correct answer using the codes below:

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

41. India had announced that it will eliminate the use of HFC-23, a greenhouse gas that harms the ozone layer, by 2030. Which of the following statements is/are correct about HFC-23 ?

1. HFC-23 is produced as a by-product of HCFC-22 manufacturing.
2. HFC-23 is used in semiconductor industry.

Select the correct answer using the codes below:

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

42. Which of the following statements is correct about the efforts to combat Desertification ?

1. The UN Convention to Combat Desertification (UNCCD) addresses the issue of Desertification, Land Degradation and Drought.
2. India does not have a specific policy or legislative framework for combating desertification.

Select the correct answer using the codes below:

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

43. As per Indian State of Forest Report 2017, arrange the following types of forests in the decreasing order of annual average fire detection ?

1. Tropical Moist Deciduous Forests
2. Tropical Dry Deciduous Forests
3. Subtropical Pine Forests
4. Montane wet Temperate Forests

Select the correct answer using the codes below:

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

44. Tree cover in "Forest and Tree Cover" in Indian State of Forest Report – 2017 includes which of the following ?

1. Small patches of trees less than 1 hectare in extent.
2. Trees in small plantations, compact blocks and woodlots.
3. Trees along roads, bunds and canals.
4. Scattered trees.

Select the correct answer using the codes below:

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

45. As per Indian State of Forest Report – 2017, which of the following states has the highest Growing Stock ?

- (a) Chhattisgarh
- (b) Madhya Pradesh
- (c) Arunachal Pradesh
- (d) Uttarakhand

46. As per the National Civil Aviation Policy, 2016, with which of the following countries can India have an 'Open Sky' air services agreement on a reciprocal basis ?

1. Sri Lanka
2. Nepal
3. Japan
4. United Kingdom

Select the correct answer using the code given below:

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

47. 'Inclusive India Initiative' is

- (a) A mass awareness campaign of the National Trust for Welfare of Persons with Autism, Cerebral Palsy, Mental Retardation and Multiple Disabilities
- (b) A programme of the National Literacy Mission Authority to promote digital literacy among adults
- (c) An initiative to uplift SC and ST women
- (d) None of the above

48. Which of the following income sources is/are components of non-tax revenues of the central government ?

1. Telecom spectrum auctions
2. Interest receipts on loans granted
3. Reserve Bank of India's annual dividend payout

Select the correct answer using codes given below:

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

49. In which of the following circumstances does the Constitution permit the Presiding Officer of a House to disqualify a legislator ?

1. A legislator withdrawing support to his/her own party's government
2. A legislator voting or abstaining from voting in the House contrary to any direction given by his/her political party

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

50. With reference to 'CARB-X', consider the following statements:

1. It is a NewSpace enterprise
2. It is focused on research and development projects to address the problem of "Gram-negative" bacteria

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

51. The rate of evaporation increases with which of the following ?

1. An increase of surface area.
2. An increase of temperature.
3. An increase in humidity.
4. An increase in wind speed.

Select the correct answer using the codes below:

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

52. Which of the following is/are correct about Molecule ?

1. It the smallest particle of an element or a compound that is capable of an independent existence.
2. Atoms of the same element or of different elements can join together to form molecules.
3. A molecule shows all the properties of the substance.

Select the correct answer using the codes below:

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

53. Which of the following statements is/are correct about isotopes and isobars ?

1. Isotopes of same element have different number of protons but same number of neutrons.
2. Isobars have different number of protons and different number of neutrons.
3. Many elements consist of a mixture of isotopes.
4. The chemical properties of isotopes are similar but their physical properties are different.

Select the correct answer using the codes below:

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

54. Which of the following statements is/are correct about lysosomes ?

1. Lysosomes break food, bacteria and old organelles.
2. Lysosomes contain powerful digestive enzymes capable of breaking down all organic material.
3. Autophagy delivers cytoplasmic components and organelles to the lysosomes for digestion.

Select the correct answer using the codes below:

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

55. Which of the following statements is/are correct about transport tissues in plants ?

1. Xylem and phloem constitute a vascular bundle.
2. Xylem is involved in translocation whereas phloem helps plants in transpiration.
3. These tissues have made the survival of the plants possible in terrestrial environment.

Select the correct answer using the codes below:

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

56. Which of the following pairs of plant types and their characteristics are correctly matched ?

<i>Plants</i>	<i>Characteristics</i>
1. Thallophytes :	Have no well-differentiated body design
2. Bryophytes :	Have specialised conductive tissue
3. Pteridophytes :	No specialised conductive tissue

Select the correct answer using the codes below:

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

57. While catching a fast moving cricket ball, a fielder in the ground gradually pulls his hands backwards with the moving ball. Which of the following is/are the reason for this action ?

- (a) It increases the time during which the high velocity of the moving ball decreases to zero.
- (b) It decreases the time during which the high velocity of the moving ball decreases to zero.
- (c) The acceleration of the ball is increased.
- (d) None of the above.

58. Which of the following statements is/are correct about echo ?

1. The time interval between the original sound and the reflected one can be zero seconds to hear the distinct echo.
2. The distance of the obstacle from the source of sound can be less than 10m to hear the echo.
3. The distance of the obstacle from the source of sound to hear the echo will change with the temperature of air.

Select the correct answer using the codes below:

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

59. Which of the following statements is/are correct about antibiotics ?

1. Antibiotics commonly block biochemical pathways important for bacteria.
2. Antibiotic penicillin blocks the bacterial processes that build the cell wall.
3. Antibiotic penicillin blocks the human cells from making cell walls.

Select the correct answer using the codes below:

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

60. Which of the following statements is/are correct about Infuenza ?

1. Letters H and N are associated with the glycolproteins which occur on the surface of viral particles.
2. Only Influenza A virus is subdivided based on the antibody responses to glycoproteins occur on the surface of viral particles.

Select the correct answer using the codes below:

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

61. Which of the following statements is/are correct about Measles-Rubella vaccination campaign ?

1. The vaccine being given in the Measles-Rubella campaign is an imported one.
2. Measles-Rubella vaccination campaign dose is in addition to routine immunization dose.
3. Measles-Rubella vaccination campaign will replace measles vaccine, currently given at 9-12months and 16-24 months of age of child.

Select the correct answer using the codes below:

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

62. Which of the following statements is/are correct about zoonotic TB ?

1. It is a name for animal TB.
2. Animal TB is communicated to humans through consumption of non-heat-treated dairy products or raw.
3. Animal TB is communicated to humans through consumption of improperly cooked meat from diseased animals.
4. Animal TB is communicated to humans through direct transmission from infected animals.

Select the correct answer using the codes below:

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

63. Which of the following is/are correct about Poliovirus Vaccines ?

1. OPV contains killed virus and IPV contains live weakened virus.
2. There is a risk of vaccine derived polio from OPV.
3. A case of Vaccine Derived Polio Virus (VDPV) was reported in India after it received a polio-free certificate from WHO.

Select the correct answer using the codes below:

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

64. Which of the following statements is/are correct about VAJRA scheme ?

1. It offers visiting faculty assignments to scientists, faculty members and R&D professionals among Overseas Citizens of India (OCIs).
2. The initial Faculty assignment is given for a period of one year.

Select the correct answer using the codes below:

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

65. Which of the following statements is/are correct about JIGYASA programme ?

1. Council of Scientific and Industrial Research (CSIR), has joined hands with Kendriya Vidyalaya Sangathan (KVS) and Navodaya Vidyalaya Samiti (NVS) to implement this programme.
2. The program will enable the students and teachers to practically live the theoretical concepts taught in science by visiting CSIR laboratories and by participating in mini-science projects.

Select the correct answer using the codes below:

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

66. Which of the following is/are correct about stem cells ?

1. Both embryonic stem cells and adult stem cells have potential to differentiate.
2. Pluripotent stem cells have ability to differentiate into almost all cell types.
3. Embryonic stem cells are reprogrammed to obtain induced pluripotent stem (iPS) cells.

Select the correct answer using the codes below:

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

67. Which of the following statements is/are correct about atomic clock ?

1. SI unit second is the time it takes a caesium-133 atom in a precisely defined state to oscillate exactly.
2. Atomic clock uses light in the visible spectrum to measure atomic oscillations.

Select the correct answer using the codes below:

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

68. Which of the following is/are referred as recorded forest area ?

1. All the geographic areas recorded as 'Forests' in government records.
2. Reserved Forests and Protected Forests notified under Indian Forests Act.
3. Reserved Forests and Protected Forests notified under State Acts.
4. Areas recorded as forests in the revenue records.

Select the correct answer using the codes below:

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

69. Which of the following items is/are covered under Indian State of Forest Report for the first time in 2017 report ?

1. Carbon stock
2. Forest fire
3. Information on water bodies
4. Timber production from outside forest

Select the correct answer using the codes below:

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

70. Arrange the following states in the decreasing order of the net negative change in area in the forest cover.
1. Arunachal Pradesh
 2. Mizoram
 3. Meghalaya
 4. Nagaland
- Select the correct answer using the codes below:
- (a) 4-2-1-3
 - (b) 2-4-1-3
 - (c) 4-2-3-1
 - (d) 2-4-1-3
71. The Paris Principles are related to
- (a) Animal rights
 - (b) Human rights
 - (c) Climate change
 - (d) International trade
72. Which of the following is **not** part of the Chota Char Dham ?
- (a) Yamunotri
 - (b) Gangotri
 - (c) Rudranath
 - (d) Kedarnath
73. In July 2017, the United Nations adopted the Treaty on the Prohibition of Nuclear Weapons. With reference to this Treaty, consider the following statements:
1. It is the first legally binding international agreement to comprehensively prohibit nuclear weapons
 2. India is the only nuclear weapons state to support this treaty
- Which of the above statements is/are correct ?
- (a) 1 Only
 - (b) 2 Only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
74. With reference to the SATH- Sustainable Action for Transforming Human Capital, consider the following statements:
1. It is launched by the Ministry of Human Resources Development, government of India
 2. SATH is an effort to further the agenda for cooperative federalism
- Which of the above statements is/are correct ?
- (a) 1 Only
 - (b) 2 Only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
75. Recently, the NITI Aayog and the International Road Federation signed a Statement of Intent (SoI) to cooperate in the field of Intelligent Transportation Systems (ITS). With reference to the International Road Federation (IRF), consider the following statements:
1. It is part of the United Nations Economic and Social Council
 2. It is headquartered in Washington, DC
 3. The IRF seeks to promote the benefits of a sustainable road transport infrastructure at all levels of society
- Which of the above statements is/are correct ?
- (a) 1 and 3 Only
 - (b) 3 Only
 - (c) 2 and 3 Only
 - (d) 1, 2 and 3
76. Which of the statements is/are correct about lichens and mosses ?
1. Lichen is a composite organism.
 2. Mosses lack the stems and leaves.
 3. Both lichens and mosses grow on trees and rocks.
- Select the correct answer using the code below:
- (a) 1 and 2 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) 1, 2, and 3

77. Which of the following statements is/are correct about black carbon ?

1. It is the result of incomplete combustion.
2. It reduces the albedo when deposited on snow and ice.
3. Life span of it in the atmosphere is more than CO₂.

Select the correct answer using the code below:

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

78. Which of the following statements is/are correct about Minamata Convention on Mercury ?

1. India is a signatory to the convention.
2. It has the objective to protect human health and environment from the anthropogenic emissions and releases of mercury and mercury compounds.
3. The first meeting of Conference of Parties took place in 2017.

Select the correct answer using the code below:

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

79. Which of the following statements is/are correct about Hoolock Gibbons ?

1. These are the only apes found in India.
2. Eastern Hoolock Gibbon is listed as 'Endangered' whereas Western Hoolock Gibbon is in vulnerable list of IUCN Red list.
3. Populations of both Western and Eastern Hoolock Gibbon is declining.

Select the correct answer using the code below:

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

80. 'Human-Wildlife Conflict Mitigation in India' Project is being implemented in which three of the following states ?

1. Assam
2. West Bengal
3. Uttarakhand
4. Karnataka
5. Tamil Nadu

Select the correct answer using the code below:

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

81. Which of the following statements is/are correct about BIOFIN ?

1. It includes private and public financial resources used to conserve biodiversity.
2. It invests in commercial activities that produce positive biodiversity outcomes.
3. It is being implemented by United Nations Environment Programme (UNEP).

Select the correct answer using the code below:

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

82. Which of the following statements is/are correct with respect to The Draft National Forest Policy ?

1. It proposes the levy of green tax.
2. It recommends to abolish the contracts between forest-dependent industries and farmers to fix price and quantity.
3. It indicates to use CAMPA funds to be used for purchasing wildlife corridors from people.

Select the correct answer using the code below:

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

83. Which of the following countries is/are *not* among Snow Leopard range countries ?

1. Pakistan
2. China
3. Nepal
4. Bhutan
5. Myanmar
6. Afghanistan
7. Bangladesh

Select the correct answer using the code below:

- (a) 1 and 7 only
- (b) 2 and 5 only
- (c) 5 and 7 only
- (d) 1 and 5 only

84. Which of the following statements is/are correct about Ramsar Convention on Wetlands?

1. Ramsar Convention is the only global environment treaty dealing with a particular ecosystem.
2. Nal Sarovar in Gujarat is the latest Ramsar site in India.
3. Kerala has the highest number of Ramsar sites among the Indian states.

Select the correct answer using the code below:

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

85. Which of the following statements is/are correct about Khangchendzonga National Park?

1. It is the only UNESCO's mixed (natural and cultural) heritage site in India.
2. It qualifies in 4 out of 10 criteria to be a heritage site.
3. It is also a Biosphere Reserve under World Network of Biosphere Reserves (WNBR).

Select the correct answer using the code below:

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

86. Arrange the following classes (canopy-wise) of forests in the decreasing order of their areas.

1. Very Dense Forest
2. Moderately Dense Forest
3. Open Forest
4. Scrub

Select the correct answer using the code below:

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

87. Which of the following pairs of Missions and Objectives are correctly matched ?

Mission

Objective

- | | |
|----------|---|
| 1. CHESS | : To discover thousands of exoplanets. |
| 2. AZURE | : To study the processes occurring inside the Earth's polar cusp. |
| 3. TESS | : To measure light filtering through the interstellar medium. |

Select the correct answer using the code below:

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

88. Which of the following statements is/are correct about food irradiation ?

1. It disrupts the biological processes that lead to decay.
2. It impairs the ability of vegetables to sprout.
3. It can be used to treat pre-packed commodities.

Select the correct answer using the code below:

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

89. Which of the following statements is/are correct about Moscow Declaration ?

1. It was adopted at the first WHO Global Ministerial Conference.
2. India is a signatory to the declaration.
3. Extensively – Drug TB (XDR-TB) will be tackled as national public health crisis.

Select the correct answer using the code below:

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

90. Which of the following statements is/are correct about Red Blood Cells ?

1. They are the most abundant of all the cells in the blood.
2. They get destroyed in the spleen after their life span.
3. They are nucleated cells.

Select the correct answer using the code below:

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

91. Which of the following is/are example/s of pesticides ?

1. Microbial pesticides consisting fungi or viruses.
2. Sandalwood oil.
3. Bacillus Thuringiensis.

Select the correct answer using the code below:

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

92. Which of the pairs of the studies/fields and their definitions are correctly matched ?

<i>Study/field</i>	<i>Definition</i>
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- | | |
|-------------------|---|
| 1. Bioinformatics | : Application of biological methods/systems in the design of Engineering systems |
| 2. Bionics | : As an interdisciplinary field of science combines Computer Science, Biology, Mathematics, and Engineering to analyse and interpret biological data. |

Select the correct answer using the code below:

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

93. Which of the following statements is/are correct about Biological Oxygen Demand (BOD) and Chemical Oxygen demand (COD) ?

1. Both COD and BOD test methods aim to give an indication of the amount of pollution in a water.
2. COD is the amount of oxygen required to chemically breakdown the inorganic pollutants.
3. BOD is the amount of oxygen required to breakdown the organic pollutants biologically through micro-organisms.

Select the correct answer using the code below:

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

94. Which three of the following appliances should get the energy efficiency star labelling under mandatory scheme ?

1. Electric geyser
2. Colour TV
3. Frost-free refrigerators
4. Induction motors
5. Agricultural pump sets
6. Domestic LPG stoves

Select the correct answer using the code below:

- (a) 1, 2 and 3 only
- (b) 3, 4 and 5 only
- (c) 4, 5 and 6 only
- (d) 1,4 and 5 only

95. Which of the following statements is/are correct about protocols and conventions ?

1. The Conventions—on Biodiversity, Climate Change and Desertification—derive directly from the 1992 Earth Summit.
2. Nagoya Protocol and Cartagena Protocol are the protocols to Convention on Biological Diversity.

Select the correct answer using the code below:

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

96. With reference to Majuli, consider the following statements:

1. The island is shrinking due to excessive erosion
2. The tribal communities in Majuli include the Misings, the Deoris and the Sonowal Kacharis
3. It belongs to Jorhat district

Which of the above statements is/are correct ?

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

97. If there is a direct shipping link between Chennai and Vladivostok, which of the following water bodies should a ship pass through ?

1. Strait of Malacca
2. South China Sea
3. Banda Sea
4. East China Sea
5. Sea of Japan

Select the correct answer using codes below:

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

98. India has 26 sedimentary basins, out of which 7 are categorised as basins with established commercial production. Which of the following is *not* one of these 7 basins ?

1. Cambay
2. Cauvery
3. Narmada
4. Krishna Godavari
5. Mumbai Offshore

Select the correct answer using codes below:

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

99. Consider the following statements:

1. Pyongyang is a port city
2. Pyongyang and Seoul are located on the same longitude
3. Pyongyang is nearest to Shanghai compared to Seoul

Which of the above statements is/are correct ?

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

100. With reference to the United Nations Security Council (UNSC), consider the following statements:

1. It has 15 members, including five permanent
2. The Council's 10 non-permanent seats are allocated according to a rotation pattern to ensure a proportionate representation over time from the different parts of the world
3. United Nations Security Council (UNSC) is one of the six principal organs of the United Nations

Which of the above statements is/are correct ?

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