

1. The applications of the CIRAS (CubeSat Infrared Atmospheric Sounder) mission of NASA include:
 1. Weather forecasting.
 2. Determination of tropospheric temperature.
 3. Measurement of water vapour globally for weather and climate science investigations.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) All of the above
2. Consider the following statements about the Deep Space Atomic Clock (DSAC):
 1. It is designed to improve navigation of spacecraft to distant destinations.
 2. It is 10 times more accurate than today's best navigation clocks.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
3. Consider the following statements:
 1. Euclid is a planned mission to investigate the cosmic mysteries of dark matter and dark energy.
 2. Euclid is a European Space Agency mission with important contributions from NASA.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
4. Which of the following moons of Jupiter has subsurface lakes similar to those beneath Antarctica's ice sheet?
(a) Ganymede (b) Callisto
(c) Valetudo (d) Europa
5. Which of the following are among the unusual characteristics of Martian moon Phobos?
 1. It has a decaying orbit.
 2. It orbits only a few thousand miles above the Red Planet's surface.
 3. It is one of the largest moons in the solar system.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) All of the above
6. The aim of the Interplanetary Nano-Spacecraft Pathfinder In Relevant Environment (INSPIRE) is:
 - (a) To reduce the size of the satellites to save on costs.
 - (b) To analyze the capability of satellites to study the environmental components on real time bases.
 - (c) To study the suitability of CubeSats on larger planetary missions.
 - (d) To develop satellites which can safely return to the earth from interplanetary missions after collecting the data.
7. Lunar Flashlight is an exciting new mission concept that was recently selected by NASA's Advanced Exploration Systems (AES). It demonstrates several technological firsts, including:
 1. It is the first CubeSat to reach the Moon.
 2. It is the first planetary CubeSat mission to use green propulsion.

3. It is the first mission to use lasers to look for water ice.

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) All of the above

8. Consider the following statements:

1. CITES (the Convention on International Trade in Endangered Species of Wild Fauna and Flora) is an international agreement between governments.
2. Its aim is to ensure that international trade in specimens of wild animals and plants does not threaten their survival.
3. CITES is not legally binding on the Parties.

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) All of the above

9. India is an active participant in which of the following regional forums?

1. Asia-Europe Meeting (ASEM)
2. East Asia Summit (EAS)
3. ASEAN Regional Forum (ARF)
4. ASEAN Defence Ministers' Meeting + (ADMM+)

Select the correct answer using the code given below:

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

10. Which of the following are among the limitations of the 74th Constitutional Amendment Act:

1. Many of its key provisions are not mandatory for the State government.
2. The functions which a State government is expected to devolve to the local government do not include essential civic issues such as urban transportation, housing or urban commons.
3. A municipality need not be constituted in areas which are declared as industrial townships.

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) All of the above

11. Consider the following statements:

1. The Swachh Bharat Mission envisages 800 megawatt from WTE (waste-to-energy) plants by 2018-19.
2. The minimum combustible waste feed requirement of a WTE plant to be viable is 300 tonnes per day.

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

12. Consider the following statements about the Minimum Wages Act, 1948:

1. It stipulates different wages according to occupation.
2. It stipulates different wages according to State.
3. It stipulates a national minimum wage.

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) All of the above

13. Consider the following statements about the Central Bureau of Investigation:

1. It was created out of the Delhi Special Police Establishment.
2. It is a part of the Home Ministry.

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

14. The director of the Central Bureau of Investigation is selected by a committee consists of:

1. Prime Minister
2. Union Home Minister
3. The Chief Justice of India

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) All of the above

15. Consider the following statements about the WFIRST, the Wide Field InfraRed Survey Telescope:

1. It is a NASA observatory designed to settle essential questions in the areas of dark energy, exoplanets, and infrared astrophysics.
2. The Wide Field Instrument on the telescope will have a field of view that is 100 times greater than the Hubble infrared instrument.
3. WFIRST Coronagraph Instrument (CGI) will demonstrate the first high-performance coronagraph system in space capable of direct imaging of mature exoplanet systems.

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) All of the above

16. Consider the following statements:

1. The power of the President to grant pardon extends in cases where the punishment or sentence is by a Court Martial but Article 161 does not provide any such power to the Governor.
2. The President can grant pardon in all cases where the sentence given is sentence of death but pardoning power of Governor does not extend to death sentence cases.

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

17. The Great Pacific Garbage Patch, a floating trash pile twice the size of France, is roughly located halfway between:
- California and Hawaii.
 - California and Iceland.
 - Hawaii and Iceland.
 - California and St. Jones Island.
18. The direction of wind around a low pressure in northern hemisphere is:
- Clockwise
 - Anti-clock wise
 - Perpendicular to isobars
 - Parallel to isobars
19. The Surface Water and Ocean Topography (SWOT) satellite, to collect detailed measurements of how water bodies on Earth change over time, will be jointly developed and managed by:
- National Aeronautics and Space Administration
 - French Space Agency
 - Indian Space Research Organisation
 - Canadian Space Agency
- Select the correct answer using the code given below:
- 1, 2 and 3 only
 - 2, 3 and 4 only
 - 1, 2 and 4 only
 - All of the above
20. Which of the following countries are part of the South Asia Sub-regional Economic Cooperation (SASEC) program?
- Bangladesh
 - Maldives
 - Pakistan
 - Myanmar
- Select the correct answer using the code given below:
- 1, 2 and 3 only
 - 2, 3 and 4 only
 - 1, 2 and 4 only
 - All of the above

ANSWER KEYS

01 d 02 a 03 c 04 d 05 a 06 c 07 d 08 a 09 d 10 d
11 c 12 a 13 a 14 c 15 d 16 c 17 a 18 b 19 c 20 c