- 1-Which one of the following is the national aquatic animal of India?
- (a)Saltwater crocodile
- (b)Olive ridley turtle
- (c) Gangetic dolphin
- (d)Gharial
- 2- Which of the following adds/add carbon dioxide to the carbon cycle on the planet Earth?
- 1. Volcanic action
- 2. Respiration
- 3. Photosynthesis
- 4. Decay of organic matter

Select the correct answer using the code given below.

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

(c)1, 2 and 4 only

- (d) 1, 2, 3 and 4
- 3- Consider the following:
- 1.Bats
- 2.Bears
- 3.Rodents

The phenomenon of hibernation can be observed in which of the above kinds of animals?

- (a)1 and 2 only
- (b)2 only

(c)1, 2 and 3

(d)Hibernation cannot be observed in any of the above

- 4- consider the following statements:
- 1.It is an autonomous organization under the Ministry of Environment and Forests.
- 2.It strives to conserve nature through action-based research, education and public awareness.
- 3. It organizes and conducts nature trails and camps for the general public.

Which of the statements given above is/are correct?

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

(c)2 and 3 only

(d)1, 2 and 3

5-In the context of recent advances in human reproductive technology, "Pronuclear Transfer" is used for

- (a) fertilization of egg in vitro by the donor sperm
- (b) genetic modification of sperm-producing cells
- (c) development of stem cells into functional embryos

(d) prevention of mitochondrial diseases in offspring

- 6- With reference to carbon nanotubes, consider the following statements:
- 1-They can be used as carriers of drugs and antigens in the human body.
- 2-They can be made into artificial blood capillaries for an injured part of human body.
- 3-They can be used in biochemical sensors.
- 4-Carbon nanotubes are biodegradable.

Which of the statements given above are correct?

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

(d) 1, 2, 3 and 4

- 7. Consider the following activities:
- 1-Spraying pesticides on a crop field



- 2-Inspecting the craters of active volcanoes
- 3-Collecting breath samples from spouting whales for DNA analysis

At the present level of technology, which of the above activities can be successfully carried out by using drones?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3
- 8. Consider the following statements:
- 1-Genetic changes can be introduced in the cells that produce eggs or sperms of a prospective parent.
- 2-A person's genome can be edited before birth at the early embryonic stage.
- 3-Human-induced pluripotent stem cells can be injected into the embryo of a pig.

Which of the statements given above is/are correct?

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

(d) 1, 2 and 3

- 9. Which of the following statements are correct regarding the general difference between plant and animal cells?
- 1-Plant cells have cellulose cell walls whilst animal cells do not
- 2-Plant cells do not have plasma membrane unlike animal cells which do
- 3-Mature plant cell has one large vacuole vacuoles

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
- Coaching for UPSC/OPSC 10. Which of the following are the reasons/factors for exposure to benzene pollution?
- 1-Automobile exhaust
- 2-Tobacco smoke
- 3-Wood burning
- 4-Using varnished wooden furniture
- 5-Using products made of polyurethane

Select the correct answer using the code given below:

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

(d) 1, 2, 3, 4 and 5

- 11- Consider the following statements about the National Cancer Tissue Bio Bank?
- 1.It is the initiative of Ministry of Health and Family Welfare
- 2.It collects cancer tissue sample of patients with their consent.

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
- 12- Consider the following statements with reference to Rotavirus:
- 1. Children with rotavirus vaccine are fully immunised against diarrhoea
- 2. Rotavirus vaccine is provided free of cost as part of the Universal Immunisation Programme
- 3.It damages the cells of the small intestine so that the body cannot absorb water and nutrients

Which of the statements given above are correct?

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

(c)1 and 3 only

- (d)1, 2 and 3
- 13- Consider the following statements related to Directed Energy Weapons:
- 1. They can work efficiently in cloudy weather.
- 2. It does not require projectile calculations as it is not affected by gravity

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
- 14- Consider the following statements related to Formaldehyde (Formalin):
- 1.It is used to increase the shelf life of sea food like fish.
- 2.It is does not occur naturally in preserved fish.

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
- 15- Blackbox Phenomena is related to
- (a)Civil Aviation
- (b)SMART City

(c)Artificial Intelligence

- (d)Education
- 16- With reference to Tuberculosis (TB), consider the following statements:
- 1.It is caused by a virus and is currently not curable but only preventable
- 2.Individuals with latent TB cannot transmit the disease
- 3.It is almost fatal for HIV positive individuals

Select the correct answer from the codes given below:

(a)1 and 2 only

(b)2 and 3 only

- (c)1 and 3 only
- (d)1, 2 and 3
- 17- With reference to Cannabis/ Marijuana, consider the following statements:
- 1.It usage for recreational purposes is considered toxic within Ayurveda
- 2.It only has short-term mental impairment, with no long term residual health effects

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
- 18- Consider the following statements related to Measles:
- 1.It is a viral disease which affects the respiratory system.
- 2. Presently, there is no vaccine available for the measles.

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



- 19- Which of the following statements about fly ash is/are correct?
- 1.It is hydrophilic in nature
- 2.It is a by-product of burning pulverized coal in electric power generating plants.
- 3.It has no environmental benefits at all. Select the correct answer using the code given below?
- (a)1 and 3 only
- (b)2 and 3 only
- (c)1 and 2 only
- (d)None of the above
- 20- Consider the following statements about Sunspots:
- 1. They are formed in areas where the magnetic field is very strong.
- 2. They are comparatively hotter than the other areas on sun's surface.

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
- 21. Consider the following statements regarding an E-Way Bill:
- 1. These are mandatory for inter-state transportation of goods valued over Rs. 50,000 with an exception of gold.
- 2. Under the E-Way Bill rules, the tax officials are empowered to scrutinise the e-way bill at any point during transit to check tax evasion.

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
- 22. Consider the following statements:
- 1. Oman is bounded by Yemen in the northwest and Arabian Sea in the east.
- 2. The Musandam Peninsula is Oman's territory located between the Persian Gulf and Gulf of Oman.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only 1 USI
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 22. Consider the following statements regarding the Transgender Persons (Protection of Rights) Act, 2019:
- 1. The act declared transgender persons as the third gender.
- 2. The act established the National Council for Transgender persons.

Which of the statements given above is/are not correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 23. The term 'A-76' was recently in the news, it is?
- (a) Solar powered two seater airplane
- (b) World's largest iceberg
- (c) Newly discovered asteroid in Kuiper belt
- (d) Advanced fully automatic pistol made by Indian Ordnance Factory Board
- 24. Consider the following statements regarding National Institute of Social Defence (NISD):
- 1. It is an Autonomous Body registered under the Societies Registration Act, 1860.
- 2. It is a central advisory body to the Ministry of Women and Child Development.

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