



Q.65) Consider the following statement regarding New fly ash utilization rules:

1. Fly ash notification was issued in 1999 to ensure 70% fly ash utilization in India by 2005.
2. The non-complying power plants will provide ash free-of-cost to agencies engaged in construction activities within a 300 km radius with all transportation costs to be borne by Thermal power plants.

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

Q.66) With reference to the DNA Technology (Use and Application) Regulation Bill, 2019, which of the following statements is/are correct?

1. The DNA Technology (Use and Application) Regulation Bill, 2019" is for expanding the application of DNA-based forensic technologies to support and strengthen the justice delivery system of the country.
2. The Bill mandates the permanent storage of DNA data obtained under all categories, including those obtained from a criminal investigation.
3. It also has the provisions to establish National and Regional DNA Data Banks for the maintenance of the national forensic DNA database for the purposes of identification of the aforementioned category of persons.

Select the correct answer using the code given below:

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

Q.67) The gene BBX11 used to facilitate -

- a) bioremediation.
- b) greening of plants.
- c) cure of diabetes.
- d) fast growth of animals.

Q.68) Which of the following statements is incorrect with respect to the Genetically Modified Crops ?

- a) Genetic modification is a technology that involves inserting DNA into the genome of an organism.
- b) The seeds produced by these plants will inherit the new DNA.

- c) The Genetically Modified Crops permitted for cultivation in India are Bt Cotton and Bt Brinjal.
- d) Genetic Engineering Appraisal Committee (GEAC) is the apex body that allows for commercial release of Genetically Modified Crops.

Q.69) Consider the following statements with reference to the Genetic Engineering Appraisal Committee (GEAC) :

1. The Genetic Engineering Appraisal Committee (GEAC) functions in the Ministry of Science and Technology.
2. It is responsible for appraisal of activities involving uses of hazardous microorganisms and recombinants in research and industrial production from the environmental perspectives.

Which of the above statements is/are correct ?

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

Q.70) Consider the following statements with reference to the Nanobiotechnology:

1. Nanobiotechnology is a discipline in which tools from nanotechnology are developed and applied to study biological phenomena.
2. Nanobiotechnology enables technology relevant for diverse sectors, such as chemicals, consumer products, health, energy, various other industries and the environment.

Which of the above statements is/are correct ?

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

Q.71) Which of the following statements is incorrect with respect to the Genome editing Technology ?

- a) These technologies allow genetic material to be added, removed, or altered at particular locations in the genome.
- b) Several approaches to genome editing have been developed one-of them is known as CRISPR-Cas9, which is short for clustered regularly interspaced short palindromic repeats.
- c) CRISPR-Cas9 was adapted from a naturally occurring genome editing system in viruses.
- d) None of the above