

• Question No. 1

In a vector having two or more target sites in a non essential portion of DNA for the cloning is known as \_\_\_\_

**Options :**

1. Directional cloning
2. Self ligation
3. Palindromic sequence
4. Cohesive ends
- 5.

Answer : Directional cloning

• Question No. 2

The Agricultural Produce (Grading and Marketing) Act was passed in which year?

**Options :**

1. 1936
2. 1937
3. 1950
4. 1953
- 5.

Answer : 1937

• Question No. 3

Which of the following step is not essential for rDNA experiment?

**Options :**

1. Generation of DNA fragment
2. Cutting and joining of DNA fragment

3. Selection of recombinants
4. Removal of endonucleases from DNA fragment
- 5.

Answer : Removal of endonucleases from DNA fragment

• Question No. 4

Agricultural census is conducted by Ministry of Agriculture and Farmers' Welfare in every \_\_\_ year with participation of states and UTs since 1970 as part of World Agriculture Census.

**Options :**

1. 4
2. 5
3. 10
4. 15
- 5.

Answer : 5

• Question No. 5

Pradhan Mantri Krishi Sinchai Yojana (PMKSY) has been formulated with the vision of \_\_\_\_\_

**Options :**

1. Extending the coverage of irrigation "Har Khet ko pani"
2. Improving water use efficiency "More crop per drop"
3. Increasing acreage
4. Both a and b
- 5.

Answer : Both a and b

• Question No. 6

Name the enzyme which is used to cut DNA at specific sites to bind with desired DNA end to make recombinant DNA in the process of genetic engineering

**Options :**

1. Restriction endonuclease
2. Restriction exonuclease
3. DNA polymerase
4. DNA primase
- 5.

Answer : Restriction endonuclease

- Question No. 7

Which term is suitable to define rDNA technology?

**Options :**

1. Genetic engineering
2. Genetic manipulation
3. Genetic modification
4. All of the above
- 5.

Answer : All of the above

- Question No. 8

For the process of cDNA synthesis, the eukaryotic \_\_\_\_ is used as the template for the generation of DNA.

**Options :**

1. mRNA
2. tRNA
3. rRNA
4. all of the above

5.

Answer : mRNA

• Question No. 9

Which of the following is a beneficial microorganism as far as dairying is concerned?

**Options :**

1. Lactic acid
2. Aspergillus
3. Nitrosomonas
4. Lactobacillus
- 5.

Answer : Lactobacillus

• Question No. 10

What is the name of the group of fungi which lead to spoilage of food having high sugars and high salt concentration like dried fruits, jam, honey?

**Options :**

1. Zygosacchomyces
2. Debarymyces
3. Brettanomyces
4. Both a and b
- 5.

Answer : Both a and b

• Question No. 11

Under the following option which are the common micro-organisms infecting grains in the storage?

**Options :**

1. Aspergillus
2. Penicillium
3. Fusarium
4. A and b
- 5.

Answer : A and b

• Question No. 12

Under which ministry, National Food Security Act was enacted in 2013?

**Options :**

1. Ministry of Agriculture and Farmers' Welfare
2. Ministry of Consumer Affairs, Food & Public Distribution
3. Ministry of Food Processing Industries
4. Ministry of Finance
- 5.

Answer : Ministry of Consumer Affairs, Food & Public Distribution

• Question No. 13

Under the given options, which of the following is the provision under NFSA 2013?

**Options :**

1. Rice @ Rs3/kg
2. Wheat @ Rs 2\kg
3. Coarse grains (millet) @ Rs 1/kg
4. All of the above
- 5.

Answer : All of the above

- Question No. 14

Which was the very initial act in India that provides the protection from adulteration/contamination of food that may lead to the health risk of consumers as Food borne illness?

**Options :**

1. The United Provinces Prevention of Adulteration Act, 1912
2. The Madras Prevention of Adulteration Act, 1919
3. Prevention of Food Adulteration (PFA) Act, 1954
4. Food Safety and Standards Act, 2006
- 5.

Answer : Prevention of Food Adulteration (PFA) Act, 1954

- Question No. 15

In case of any dispute, an adulterated sample need to be examined by the court. The Central Food Laboratories give its final opinion on the subject, under the given option which one is not the central food laboratory?

**Options :**

1. Delhi
2. Ghaziabad
3. Kolkata
4. CFTRI, Mysore
- 5.

Answer : Delhi

- Question No. 16

Which of the following is not the suitable example of adulterated food?

**Options :**

1. Milk not confirming to standard is adulterated (standard required fat and solid content 14%) but milk contained fat 5.7% and solid 7.25% i.e. total 13%
2. Excess content of fat that the prescribed level
3. Sale of mixed linseed and rapeseed oil
4. Wheat flour kept in Dhaba for preparation of Chapatis for sale
- 5.

Answer : Wheat flour kept in Dhaba for preparation of Chapatis for sale

• Question No. 17

What is the penalty provision for adulterated food but not injurious and not within prescribed specifications or misbranded or non – injurious adulterant or preventing a food inspector from drawing samples or in exercise of his duties?

Options :

1. Imprisonment of not less than 3 months, extending to 2 years and fine not less than Rs 500/-
2. Minimum imprisonment of 6 months, extending to 3 years and fine not less than Rs 1000/-
3. Imprisonment of not less than 3 years, extending to life imprisonment and fine not less than Rs 5000/-
4. Minimum imprisonment of 6 months, and fine not less than Rs 5000/-
- 5.

Answer : Minimum imprisonment of 6 months, extending to 3 years and fine not less than Rs 1000/-

• Question No. 18

Which ministry under Govt. of India is the administrative ministry for implementation of FSSAI?

Options :

1. Ministry of Agriculture and Farmers' Welfare
2. Ministry of Rural Development
3. Ministry of Health and Family Welfare
4. Ministry of Consumer Affairs, Food and Public Distribution
- 5.

Answer : Ministry of Health and Family Welfare

• Question No. 19

In the long form of periodic table the elements are arranged in the increasing order of

**Options :**

1. Atomic mass
2. Atomic number
3. Number of shells
4. Metallic character
- 5.

Answer : Atomic number

• Question No. 20

Which of the following is not a merit of Mendeleev's Periodic Table?

**Options :**

1. He predicted the properties of some undiscovered elements and left gaps for them
2. He framed the periodic table with vertical and horizontal columns and gave shape to it
3. He gave separate places to isotopes in his periodic table
4. It helped in correcting the atomic masses of some of the elements
- 5.

Answer : He gave separate places to isotopes in his periodic table

• Question No. 21

Which of the following has no Pi bond?

**Options :**

1. SO<sub>2</sub>



2. CO<sub>2</sub>
3. NO<sub>2</sub>
4. H<sub>2</sub>O
- 5.

Answer : H<sub>2</sub>O

• Question No. 22

Which of the following is not a base?

**Options :**

1. NH<sub>4</sub>OH
2. C<sub>2</sub>H<sub>5</sub>OH
3. NaOH
4. KOH
- 5.

Answer : C<sub>2</sub>H<sub>5</sub>OH

• Question No. 23

The poorest conductor of heat among metals is

**Options :**

1. Lead
2. Sodium
3. Calcium
4. Mercury
- 5.

Answer : Lead

• Question No. 24

Which of the following hydrocarbon is liquid at room temperature?

**Options :**

1. Pentane
2. Butane
3. Methane
4. Ethane
- 5.

Answer : Pentane

- Question No. 25

Which of the following alkene is used in the manufacture of polythene?

**Options :**

1. Propene
2. Ethene
3. Butene
4. Pentene
- 5.

Answer : Ethene

- Question No. 26

In the modern periodic table, the period indicates the value of

**Options :**

1. Azimuthal Quantum number
2. Atomic number
3. Principle Quantum number
4. Mass number
- 5.

Answer : Principle Quantum number

• Question No. 27

The correct order of boiling point of primary ( $1^\circ$ ), secondary ( $2^\circ$ ) and tertiary ( $3^\circ$ ) alcohols is

**Options :**

1.  $2^\circ > 3^\circ > 1^\circ$

2.  $1^\circ > 2^\circ > 3^\circ$

3.  $3^\circ > 2^\circ > 1^\circ$

4.  $2^\circ > 1^\circ > 3^\circ$

5.

Answer :  $1^\circ > 2^\circ > 3^\circ$

• Question No. 28

How much percent of alcohol does a fermented liquid wash contains?

**Options :**

1. 10-20

2. 13-19

3. 21-25

4. 15-18

5.

Answer : 15-18

• Question No. 29

.....is a major mechanism through which new genetic material is generated during molecular evolution.

**Options :**

1. DNA deletion

2. Gene duplication
3. Gene insertion
4. DNA transformation
- 5.

Answer : Gene duplication

• Question No. 30

Entomology is the science which deals with \_\_\_\_

**Options :**

1. Study of birds
2. Study of insects
3. Study of microbes
4. Study of molluscs
- 5.

Answer : Study of insects

• Question No. 31

Which of the following microbes is responsible for citric acid formation?

**Options :**

1. Aspergillus
2. Acetobacter
3. Pseudomonas
4. Penicillium
- 5.

Answer : Aspergillus

• Question No. 32

Which of the following is not a principle of plant disease control?

**Options :**

1. Avoidance
2. Eradication
3. Exclusion
4. Tolerance
- 5.

Answer : Tolerance

- Question No. 33

Crops grown to supplement the yield of main crops are called

**Options :**

1. Alley crops
2. Avenue crops
3. Augment crops
4. Cover crops
- 5.

Answer : Augment crops

- Question No. 34

Keratin, a structural protein is present in \_\_\_\_\_

**Options :**

1. Wool
2. Hair
3. Silk
4. All of the above
- 5.

Answer : All of the above

- Question No. 35

Maximum amount of food grain is produced in which state in India?

**Options :**

1. Punjab
2. Haryana
3. Bihar
4. UP
- 5.

Answer : UP

- Question No. 36

Maximum amount of rice is produced in which state in India?

**Options :**

1. West Bengal
2. UP
3. Bihar
4. Punjab
- 5.

Answer : West Bengal

- Question No. 37

Maximum amount in pulses is produced in which Indian state?

**Options :**

1. Chhattisgarh

2. Punjab
3. UP
4. MP
- 5.

Answer : MP

• Question No. 38

Maximum amount in oilseeds are produced in which state in India?

**Options :**

1. MP
2. Chhattisgarh
3. Punjab
4. UP
- 5.

Answer : MP

• Question No. 39

Rabi crops are grown in \_\_\_\_\_ season.

**Options :**

1. Winter
2. Summer
3. Rainy
4. None of these
- 5.

Answer : Winter

• Question No. 40

Jute is an example of \_\_\_ crop.

**Options :**

1. Fiber
2. Aromatic
3. Forage
4. Sugar
- 5.

Answer : Fiber

- Question No. 41

Which of the following is smallest order of class Insecta?

**Options :**

1. Hemiptera
2. Odonata
3. Coleoptera
4. Zeroptera
- 5.

Answer : Zeroptera

- Question No. 42

Herbicides that are applied and mixed into the soil before crop planting are called \_\_\_\_\_ herbicides.

**Options :**

1. Pre-emergence
2. Post-emergence
3. Pre-plant incorporation
4. Broadcast
- 5.



Answer : Pre-plant incorporation

- Question No. 43

The largest family in order Coleoptera is \_\_\_\_\_

**Options :**

1. Curculionidae
2. Noctuidae
3. Crysomelidae
4. Carabidae
- 5.

Answer : Curculionidae

- Question No. 44

First transgenic plant resistant to *Manduca sexta* is \_\_\_\_\_

**Options :**

1. Tobacco
2. Brinjal
3. Potato
4. Maize
- 5.

Answer : Tobacco

- Question No. 45

Which member of honey bee colony produces royal jelly?

**Options :**

1. Queen

2. Worker
3. Drone
4. Both a and b
- 5.

Answer : Worker

• Question No. 46

Which of the following insect is the transmitter of viruses to the plant?

**Options :**

1. White fly
2. Aphids
3. Plant hopper
4. All of them
- 5.

Answer : All of them

• Question No. 47

Destructive Insects and Pests Act in India came into operation in \_\_\_\_\_

**Options :**

1. 1914
2. 1916
3. 1912
4. 1918
- 5.

Answer : 1914

• Question No. 48

Insecticide Act was enacted on

**Options :**

1. 2nd September 1968
2. 2nd January 1988
3. 2nd October 1987
4. 2nd November 1969
- 5.

Answer : 2nd September 1968

- Question No. 49

The toxicity of BHC insecticide is due to \_\_\_\_\_

**Options :**

1. Alpha isomer
2. Beta isomer
3. Gamma isomer
4. Delta isomer
- 5.

Answer : Gamma isomer

- Question No. 50

The predominant sugar in insect hemolymph is

**Options :**

1. Trehalose
2. Glycogen
3. Glucose
4. Fructose
- 5.

Answer : Trehalose

- Question No. 51

DDT mainly affects which system of insect body?

**Options :**

1. Digestive system
2. Circulatory system
3. Nervous system
4. Excretory system
- 5.

Answer : Nervous system

- Question No. 52

A minimum period of \_\_\_ year is to taken before assessing the effectiveness of any biocontrol agent.

**Options :**

1. 2 years
2. 3 years
3. 4 years
4. 5 years
- 5.

Answer : 4 years

- Question No. 53

Bacillus thuringensis was reported by Berliner from\_\_\_\_\_

**Options :**

1. Tribolium spp.

2. Helicoverpa spp.
3. Ephestia spp
4. Spodoptera spp.
- 5.

Answer : Ephestia spp

- Question No. 54

Current location of IRRI is \_\_\_\_\_

**Options :**

1. Aleppo, Syria
2. Manila, Philippines
3. Los Banos, Philippines
4. Taiwan
- 5.

Answer : Los Banos, Philippines

- Question No. 55

Wheat variety HD 3298, DBW 303, and DDW 48 are

**Options :**

1. Rich in lysine
2. Rich in Vitamin A
3. Both b and d
4. Rich in iron and protein
- 5.

Answer : Rich in iron and protein

- Question No. 56

CR Dhan 315 variety of rice is rich in

**Options :**

1. Zinc
2. Iron
3. Silicon
4. Sulphur
- 5.

Answer : Zinc

- Question No. 57

Food and Agriculture Organization with its HQ at Rome was found in the year \_\_\_\_

**Options :**

1. 1944
2. 1945
3. 1947
4. 1954
- 5.

Answer : 1945

- Question No. 58

What is the time limit to get information under RTI Act 2005?

**Options :**

1. 15 days
2. 30 days
3. 45 days
4. 60 days
- 5.

Answer : 30 days

- Question No. 59

What is the time limit to get information concerning the life and liberty of a person under the RTI Act?

**Options :**

1. 48 hours
2. 24 hours
3. 5 days
4. 10 days
- 5.

Answer : 48 hours

- Question No. 60

The facility of national portability of ration card is named as\_\_\_\_\_

**Options :**

1. One person, one card
2. One district, one card
3. One nation, one card
4. One state, one card
- 5.

Answer : One nation, one card

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