National Testing Agency

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PLANT BIOTECHNOLOGY

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Part A : PLANT BIOTECHNOLOGY

Section Id :	55317225
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
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Number of Questions to be attempted:	160
Section Marks:	640
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	55317247
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 5531722755 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Plants with gametic chromosome number are called

1. Diploids
2. Dihaploids
3. Haploids
4. Monoploids

Options :

55317210961. 1

55317210962. 2

55317210963. 3

55317210964. 4

Question Number : 2 Question Id : 5531722756 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The scientist regarded as the 'Father of Plant Tissue Culture' is

1. Herbert E Street
2. Gottlieb Haberlandt
3. F. Skoog
4. Philip White

Options :

55317210965. 1

55317210966. 2

55317210967. 3

55317210968. 4

Question Number : 3 Question Id : 5531722757 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most frequently used auxin in plant tissue culture is

1. 2, 4 – D
2. IBA
3. NAA
4. IAA

Options :

55317210969. 1

55317210970. 2

55317210971. 3

55317210972. 4

Question Number : 4 Question Id : 5531722758 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Long term storage of plant germplasm can be achieved using

1. Carbon dioxide
2. Liquid nitrogen
3. Liquid oxygen
4. Mineral oil

Options :

55317210973. 1

55317210974. 2

55317210975. 3

55317210976. 4

Question Number : 5 Question Id : 5531722759 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT an example of an alkaloid?

1. Morphine
2. Codeine
3. Camphor
4. Berberine

Options :

55317210977. 1

55317210978. 2

55317210979. 3

55317210980. 4

Question Number : 6 Question Id : 5531722760 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For slow growth in tissue culture, high osmotic concentrations are maintained by using

1. Sorbitol
2. 2, 4 – D
3. IBA
4. Isopropanol

Options :

55317210981. 1

55317210982. 2

55317210983. 3

55317210984. 4

Question Number : 7 Question Id : 5531722761 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The sweetening compound present in *Stevia* is

1. Thaumatin
2. Shikonin
3. Dioxgenin
4. Pyrethrin

Options :

55317210985. 1

55317210986. 2

55317210987. 3

55317210988. 4

Question Number : 8 Question Id : 5531722762 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the stage of micropropagation at which growth regulators are seldom required

1. Rooting
2. Micropropagation
3. Hardening
4. Preparation of mother plants

Options :

55317210989. 1

55317210990. 2

55317210991. 3

55317210992. 4

Question Number : 9 Question Id : 5531722763 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following was the first to be achieved in plant tissue culture?

1. Embryo culture
2. Anther culture
3. Somatic hybridization
4. Embryogenesis

Options :

55317210993. 1

55317210994. 2

55317210995. 3

55317210996. 4

Question Number : 10 Question Id : 5531722764 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In Papaya, the transgenic variety 'Rainbow' is resistant to a disease caused by

1. Bacteria
2. Virus
3. Nematode
4. Fungus

Options :

55317210997. 1

55317210998. 2

55317210999. 3

55317211000. 4

Question Number : 11 Question Id : 5531722765 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The enzyme aminoglycoside 3′-phosphotransferase II (APH (3′) II) is commonly known as

1. Luciferase
2. Neomycin phosphotransferase II
3. β-Glucuronidase
4. Acyltransferase

Options :

55317211001. 1

55317211002. 2

55317211003. 3

55317211004. 4

Question Number : 12 Question Id : 5531722766 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following transgenics was the first to be cultivated commercially?

1. Bollgard
2. Flavr savr
3. Liberty link
4. Endless summer

Options :

55317211005. 1

55317211006. 2

55317211007. 3

55317211008. 4

Question Number : 13 Question Id : 5531722767 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

'Nature Gard' is a transgenic variety of

1. Brinjal
2. Potato
3. Cotton
4. Corn

Options :

55317211009. 1

55317211010. 2

55317211011. 3

55317211012. 4

Question Number : 14 Question Id : 5531722768 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The first ever transgenic tobacco was produced in

1. 1972
2. 1989
3. 1983
4. 1986

Options :

55317211013. 1

55317211014. 2

55317211015. 3

55317211016. 4

Question Number : 15 Question Id : 5531722769 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The soybean transgenic variety, "Roundup Ready" is resistant to which of the following?

1. Phosphinothrycin
2. Atrazine
3. Yellow Mosaic Virus
4. Glyphosate

Options :

55317211017. 1

55317211018. 2

55317211019. 3

55317211020. 4

Question Number : 16 Question Id : 5531722770 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most commonly used scorable marker in plants is

1. Nopaline synthase (nos)
2. β-glucuronidase (gus)
3. Luciferase (lux)
4. Octopine synthase (ocs)

Options :

55317211021. 1

55317211022. 2

55317211023. 3

55317211024. 4

Question Number : 17 Question Id : 5531722771 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The barnase gene was first used for producing male sterility 1990 by

1. Thorpe and co-workers
2. Paterson and co-workers
3. Mariani and co-workers
4. Scowcroft and co-workers

Options :

55317211025. 1

55317211026. 2

55317211027. 3

55317211028. 4

Question Number : 18 Question Id : 5531722772 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An example of seed specific promoter is

1. 35S
2. Vicilin
3. Adh1
4. Extensin

Options :

55317211029. 1

55317211030. 2

55317211031. 3

55317211032. 4

Question Number : 19 Question Id : 5531722773 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The IPR issues stalled the commercialization of which transgenic crop variety?

1. Endless summer tomato
2. Flavr Savr
3. Rainbow papaya
4. Laurical *B. napus*

Options :

55317211033. 1

55317211034. 2

55317211035. 3

55317211036. 4

Question Number : 20 Question Id : 5531722774 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the organism that Hershey and Chase to prove that DNA is the genetic material.

1. T_2 phage & *E. coli*
2. T_4 phage & *E. coli*
3. X phage & *E. coli*
4. T_7 phage & *E. coli*

Options :

55317211037. 1

55317211038. 2

55317211039. 3

55317211040. 4

Question Number : 21 Question Id : 5531722775 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The plasmid pBR 322 was first developed by

1. Boliver and Rodriguez
2. Berg Rosenberg
3. Benty Ris
4. Bonner Riggs

Options :

55317211041. 1

55317211042. 2

55317211043. 3

55317211044. 4

Question Number : 22 Question Id : 5531722776 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The sequence $\begin{bmatrix} GAATTC \\ CTTAAG \end{bmatrix}$ is recognized and restricted by which of the following enzymes?

1. *Eco*RI
2. *Alu* I
3. *Nla* III
4. *Hind* III

Options :

55317211045. 1

55317211046. 2

55317211047. 3

55317211048. 4

Question Number : 23 Question Id : 5531722777 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The length of Lambda genome is

1. 39 kb
2. 49 kb
3. 59 kb
4. 29 kb

Options :

55317211049. 1

55317211050. 2

55317211051. 3

55317211052. 4

Question Number : 24 Question Id : 5531722778 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The vector that could be used in two different hosts is

1. Plasmids
2. Phagemids
3. Shuttle vector
4. Cosmids

Options :

55317211053. 1

55317211054. 2

55317211055. 3

55317211056. 4

Question Number : 25 Question Id : 5531722779 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Most of the type II restriction endonucleases recognize and restrict the sites with

1. 14 bp
2. 50 bp
3. 16 bp
4. 4–6 bp

Options :

55317211057. 1

55317211058. 2

55317211059. 3

55317211060. 4

Question Number : 26 Question Id : 5531722780 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The probability of occurrence of a recognition sequence with 6 nucleotides in the genome is

1. 8188 bp
2. 1024 bp
3. 4096 bp
4. 2048 bp

Options :

55317211061. 1

55317211062. 2

55317211063. 3

55317211064. 4

Question Number : 27 Question Id : 5531722781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

At the end of 'n' cycles of PCR, how many copies of the amplified segment (amplicon) are expected under ideal conditions?

1. n^2
2. 2^n
3. $\frac{n^2}{2}$
4. 2n

Options :

55317211065. 1

55317211066. 2

55317211067. 3

55317211068. 4

Question Number : 28 Question Id : 5531722782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is used in colony hybridization?

1. Antibody
2. Enzyme
3. Probe
4. Substrate

Options :

55317211069. 1

55317211070. 2

55317211071. 3

55317211072. 4

Question Number : 29 Question Id : 5531722783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The melting temperature (Tm) of a DNA can be calculated using the formula

1. $[2(G+C)] + [4(A+T)]$
2. $[4(G+C)] + [2(A+T)]$
3. $[3(G+C)] + [2(A+T)]$
4. $(4G+C) + (2G+T)$

Options :

55317211073. 1

55317211074. 2

55317211075. 3

55317211076. 4

Question Number : 30 Question Id : 5531722784 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following databases is used by ENTRENZ for bibliographic citation search?

1. SWISS-PROT
2. PubMed
3. TrEMBL
4. PDB

Options :

55317211077. 1

55317211078. 2

55317211079. 3

55317211080. 4

Question Number : 31 Question Id : 5531722785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which was the first prokaryotic genome to have been sequenced?

1. *E. coli*
2. *Agrobacterium tumefacians*
3. *Haemophilus influenzae*
4. *Proteus vulgaris*

Options :

55317211081. 1

55317211082. 2

55317211083. 3

55317211084. 4

Question Number : 32 Question Id : 5531722786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The amino acids were conventionally represented by three-letter symbols, which in bioinformatics is denoted by how many letter/s?

1. Single letter
2. Two letters
3. Three letters
4. Four letters

Options :

55317211085. 1

55317211086. 2

55317211087. 3

55317211088. 4

Question Number : 33 Question Id : 5531722787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Comparison of submitted nucleotide sequences with NCBI nucleotide database is done using

1. BLASTn
2. BLASTx
3. tBLASTx
4. tBLAST

Options :

55317211089. 1

55317211090. 2

55317211091. 3

55317211092. 4

Question Number : 34 Question Id : 5531722788 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a primary nucleotide sequence database?

1. Pfam
2. EMBL
3. GenBank
4. SWISS-PROT

Options :

55317211093. 1

55317211094. 2

55317211095. 3

55317211096. 4

Question Number : 35 Question Id : 5531722789 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

DNA molecule used for synthesis of complimentary sequences either *in vivo* or in PCR is called

1. T – DNA
2. Template DNA
3. Z – DNA
4. Carrier DNA

Options :

55317211097. 1

55317211098. 2

55317211099. 3

55317211100. 4

Question Number : 36 Question Id : 5531722790 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In case of prokaryotes, which figure represents the frequency of unique ORF?

1. 50%
2. 100%
3. 25%
4. 75%

Options :

55317211101. 1

55317211102. 2

55317211103. 3

55317211104. 4

Question Number : 37 Question Id : 5531722791 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Environmental release of transgenic crops requires the clearances from

1. Ministry of Environment, Forests & Climate Change
2. Ministry of Defense
3. Ministry of Agriculture and Farmers Welfare
4. Ministry of Food and Civil Supplies

Options :

55317211105. 1

55317211106. 2

55317211107. 3

55317211108. 4

Question Number : 38 Question Id : 5531722792 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Gene Bank is a part of

1. Brookheaven laboratory
2. DDBJ
3. EMBL
4. NCBI

Options :

55317211109. 1

55317211110. 2

55317211111. 3

55317211112. 4

Question Number : 39 Question Id : 5531722793 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The differential distribution of substances in the egg, most typically result in

1. Differences in gene expression which may establish a pattern in the embryo as the cells divide.
2. Amplification of specific genes during development.
3. Development of polyploidy tissues.
4. Loss of specific genes during development.

Options :

55317211113. 1

55317211114. 2

55317211115. 3

55317211116. 4

Question Number : 40 Question Id : 5531722794 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bt cotton is a transgenic plant having a bacterial gene coding for

1. Larvicidal crystals
2. Beta tubulin
3. Bacteriocin
4. None of the above

Options :

55317211117. 1

55317211118. 2

55317211119. 3

55317211120. 4

Question Number : 41 Question Id : 5531722795 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is true?

1. DNA is circular and single stranded in prokaryotes.
2. Intervening sequences are present in the genes of eukaryotes.
3. DNA is complexed with histones in prokaryotes.
4. DNA is organized into operons in eukaryotes.

Options :

55317211121. 1

55317211122. 2

55317211123. 3

55317211124. 4

Question Number : 42 Question Id : 5531722796 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Most human cell are diploid with total DNA content of 2C. The DNA content increases to 4C before the onset of mitosis. At anaphase, the DNA content of each cluster will be

1. 4C
2. 2C
3. 1C
4. 3C

Options :

55317211125. 1

55317211126. 2

55317211127. 3

55317211128. 4

Question Number : 43 Question Id : 5531722797 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The classical unit of inheritance is

1. Antibody
2. Gene
3. Polar body
4. Tetrad

Options :

55317211129. 1

55317211130. 2

55317211131. 3

55317211132. 4

Question Number : 44 Question Id : 5531722798 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The termination of polypeptide chain is brought out by any one of codons

1. UUG, UAG, UCG
2. UAA, UAG, UGA
3. UUG, UGC, UCA
4. UCG, GCG, ACC

Options :

55317211133. 1

55317211134. 2

55317211135. 3

55317211136. 4

Question Number : 45 Question Id : 5531722799 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

B-DNA duplex shows

1. Right handed coiling and parallel
2. Right handed coiling and antiparallel
3. Left handed coiling and antiparallel
4. Left handed coiling and parallel

Options :

55317211137. 1

55317211138. 2

55317211139. 3

55317211140. 4

Question Number : 46 Question Id : 5531722800 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The segregation and independent assortment of genes basically emanates from

1. Gametic formation with meiosis
2. Bacterial selection
3. Virus Linkages
4. None of the above

Options :

55317211141. 1

55317211142. 2

55317211143. 3

55317211144. 4

Question Number : 47 Question Id : 5531722801 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The distance between two successive nitrogenous base pairs is

1. 34 A°
2. 36 A°
3. 20 A°
4. 3.4 A°

Options :

55317211145. 1

55317211146. 2

55317211147. 3

55317211148. 4

Question Number : 48 Question Id : 5531722802 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The enzyme required for removing RNA primer during DNA replication is

1. DNA primase
2. DNA ligase
3. DNA polymerase
4. Endonucleases

Options :

55317211149. 1

55317211150. 2

55317211151. 3

55317211152. 4

Question Number : 49 Question Id : 5531722803 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The cellular composition of mRNA is

1. 5 – 10%
2. 3 – 5%
3. 10 – 20%
4. 70 – 80%

Options :

55317211153. 1

55317211154. 2

55317211155. 3

55317211156. 4

Question Number : 50 Question Id : 5531722804 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The formation of mRNA from DNA is called

1. Transformation
2. Translocation
3. Translation
4. Transcription

Options :

55317211157. 1

55317211158. 2

55317211159. 3

55317211160. 4

Question Number : 51 Question Id : 5531722805 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The basic unit of a nucleic acid is

1. Pentose sugar
2. Nucleotide
3. Nucleoside
4. Nitrogen

Options :

55317211161. 1

55317211162. 2

55317211163. 3

55317211164. 4

Question Number : 52 Question Id : 5531722806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The variation observed during tissue culture of plants is known as

1. Clonal variation
2. Somaclonal variation
3. Somatic variation
4. Tissue vulture variation

Options :

55317211165. 1

55317211166. 2

55317211167. 3

55317211168. 4

Question Number : 53 Question Id : 5531722807 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following enzyme is required to release the tension imposed by uncoiling of DNA strands?

1. Endonuclease
2. DNA ligase
3. DNA gyrase
4. DNA helicase

Options :

55317211169. 1

55317211170. 2

55317211171. 3

55317211172. 4

Question Number : 54 Question Id : 5531722808 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In RNA, thiamine is replaced by

1. Adenine
2. Guanine
3. Cytosine
4. Uracil

Options :

55317211173. 1

55317211174. 2

55317211175. 3

55317211176. 4

Question Number : 55 Question Id : 5531722809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If in a DNA molecule, cytosine content is 18%, the percentage of adenine would be

1. 32%
2. 36%
3. 56%
4. 64%

Options :

55317211177. 1

55317211178. 2

55317211179. 3

55317211180. 4

Question Number : 56 Question Id : 5531722810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In *lac Z* based screening of recombinant vector, the colonies are

1. Blue
2. White
3. Red
4. Yellow

Options :

55317211181. 1

55317211182. 2

55317211183. 3

55317211184. 4

Question Number : 57 Question Id : 5531722811 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In eukaryotes, the initial codon for protein synthesis is

1. GUA
2. GCA
3. CCA
4. AUG

Options :

55317211185. 1

55317211186. 2

55317211187. 3

55317211188. 4

Question Number : 58 Question Id : 5531722812 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A segment of DNA has 120 adenine and 120 cytosine bases. The total number of nucleotides present in the segment is

1. 120
2. 240
3. 320
4. 480

Options :

55317211189. 1

55317211190. 2

55317211191. 3

55317211192. 4

Question Number : 59 Question Id : 5531722813 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In a DNA segment, the sequence is TAG. What is the sequence in anticodon of corresponding tRNA?

1. UAG
2. ATC
3. ATG
4. UAC

Options :

55317211193. 1

55317211194. 2

55317211195. 3

55317211196. 4

Question Number : 60 Question Id : 5531722814 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Denoting in 5 prime to 3 prime direction, the DNA sequence of ATTCGATG is transcribed as

1. AUUCGAUG
2. UAAGCUAC
3. CAUCGAAU
4. GUAGCUUA

Options :

55317211197. 1

55317211198. 2

55317211199. 3

55317211200. 4

Question Number : 61 Question Id : 5531722815 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The functional unit of gene that specifies synthesis of one polypeptide is

1. Codon
2. Cistron
3. Recon
4. Muton

Options :

55317211201. 1

55317211202. 2

55317211203. 3

55317211204. 4

Question Number : 62 Question Id : 5531722816 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bacterial plasmid contains

1. RNA
2. mRNA
3. DNA
4. RNA + protein

Options :

55317211205. 1

55317211206. 2

55317211207. 3

55317211208. 4

Question Number : 63 Question Id : 5531722817 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT used as a vector for gene cloning?

1. Cosmid
2. Phagemid
3. PAC
4. MAC

Options :

55317211209. 1

55317211210. 2

55317211211. 3

55317211212. 4

Question Number : 64 Question Id : 5531722818 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following DNA structure forms left hand helix?

1. DNA – A
2. DNA – B
3. DNA – C
4. DNA – Z

Options :

55317211213. 1

55317211214. 2

55317211215. 3

55317211216. 4

Question Number : 65 Question Id : 5531722819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The technique to clone the first gene was developed in

1. 1972
2. 1975
3. 1976
4. 1980

Options :

55317211217. 1

55317211218. 2

55317211219. 3

55317211220. 4

Question Number : 66 Question Id : 5531722820 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The instrument that is used in introducing DNA into a cell via DNA-coated microprojectiles is known as

1. Laser
2. DNA probe
3. Gene gun
4. Inoculation needle

Options :

55317211221. 1

55317211222. 2

55317211223. 3

55317211224. 4

Question Number : 67 Question Id : 5531722821 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A molecular technique in which DNA sequences between two oligonucleotides primers can be amplified is known as

1. Southern blotting
2. Polymerase chain reaction
3. DNA replication
4. Northern blotting

Options :

55317211225. 1

55317211226. 2

55317211227. 3

55317211228. 4

Question Number : 68 Question Id : 5531722822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A procedure for altering a defunct gene with a functional one is called

1. Gene flow
2. Gene stacking
3. Gene replacement
4. Gene pyramiding

Options :

55317211229. 1

55317211230. 2

55317211231. 3

55317211232. 4

Question Number : 69 Question Id : 5531722823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Transgenic organisms can also be produced to inactivate a particular gene, in which case, it is known as

1. T. DNA
2. Gene tagging
3. Knockdown organism
4. Gene therapy

Options :

55317211233. 1

55317211234. 2

55317211235. 3

55317211236. 4

Question Number : 70 Question Id : 5531722824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is the basis for ELISA?

1. Protein function
2. DNA – sequence homology
3. Protein – protein interaction
4. DNA – protein interaction

Options :

55317211237. 1

55317211238. 2

55317211239. 3

55317211240. 4

Question Number : 71 Question Id : 5531722825 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A DNA molecule created in the laboratory by ligation of two or more different pieces of DNA is called

1. Recombinant DNA
2. Recombinant clone
3. Genetic counseling
4. Genetic diversity

Options :

55317211241. 1

55317211242. 2

55317211243. 3

55317211244. 4

Question Number : 72 Question Id : 5531722826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Phosphodiester bond of DNA and RNA involves

1. 2′C & 1′C
2. 5′C & 3′C
3. 5′C & 2′C
4. 3′C & 1′C

Options :

55317211245. 1

55317211246. 2

55317211247. 3

55317211248. 4

Question Number : 73 Question Id : 5531722827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which enzyme is also referred to as a molecular scissor?

1. DNA ligase
2. DNA gyrase
3. Restriction enzyme
4. Topoisomerase

Options :

55317211249. 1

55317211250. 2

55317211251. 3

55317211252. 4

Question Number : 74 Question Id : 5531722828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The term heterosis represents

1. Hybrid incompatibility
2. Hybrid vigour
3. Hybrid sterility
4. Structural hybridity

Options :

55317211253. 1

55317211254. 2

55317211255. 3

55317211256. 4

Question Number : 75 Question Id : 5531722829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of these represents a back cross, in a monohybrid cross?

1. 9 : 3 : 3 : 1
2. 1 : 1
3. 1 : 2 : 1
4. 3 : 1

Options :

55317211257. 1

55317211258. 2

55317211259. 3

55317211260. 4

Question Number : 76 Question Id : 5531722830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The phenomenon of linkage was first discovered in

1. Sweet pea
2. Garden pea
3. *Mirabilis*
4. Snapdragon

Options :

55317211261. 1

55317211262. 2

55317211263. 3

55317211264. 4

Question Number : 77 Question Id : 5531722831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The term 'Sport' was given by

1. Hugo de Vries
2. Darwin
3. Lamarck
4. Watson

Options :

55317211265. 1

55317211266. 2

55317211267. 3

55317211268. 4

Question Number : 78 Question Id : 5531722832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The resistance developed by some insects against insecticides is due to

1. Hybrid vigour
2. Gene mutation
3. Variation due to sexual reproduction
4. Genetic recombination

Options :

55317211269. 1

55317211270. 2

55317211271. 3

55317211272. 4

Question Number : 79 Question Id : 5531722833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

During the Rho-dependent transcription termination, the stem and loop structure is formed in

1. The transcript
2. The template DNA
3. Coding strand
4. Complimentary DNA

Options :

55317211273. 1

55317211274. 2

55317211275. 3

55317211276. 4

Question Number : 80 Question Id : 5531722834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The chromosome ends are referred to as

1. Satellites
2. Telomeres
3. Centromeres
4. Kinetochores

Options :

55317211277. 1

55317211278. 2

55317211279. 3

55317211280. 4

Question Number : 81 Question Id : 5531722835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The process of altering code in DNA where the message is reversed is

1. Deletion
2. Insertion
3. Inversion
4. Movement

Options :

55317211281. 1

55317211282. 2

55317211283. 3

55317211284. 4

Question Number : 82 Question Id : 5531722836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The chromosome complement 2n–1 is

1. Monosomy
2. Nullisomy
3. Trisomy
4. Tetrasomy

Options :

55317211285. 1

55317211286. 2

55317211287. 3

55317211288. 4

Question Number : 83 Question Id : 5531722837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following organisms is NOT used for the preparation of biofertilizers?

1. *Azotobacter*
2. *Pseudomonas*
3. Azolla
4. *Azospirillum*

Options :

55317211289. 1

55317211290. 2

55317211291. 3

55317211292. 4

Question Number : 84 Question Id : 5531722838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An example of a prokaryote is

1. Blue-green algae
2. Sieve cell of phloem
3. Fungi
4. Yeast

Options :

55317211293. 1

55317211294. 2

55317211295. 3

55317211296. 4

Question Number : 85 Question Id : 5531722839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How many microorganisms are generally present per gram of a good quality biofertilizer?

1. $10^7 - 10^9$
2. $10^2 - 10^3$
3. $10^5 - 10^6$
4. $10^{12} - 10^{15}$

Options :

55317211297. 1

55317211298. 2

55317211299. 3

55317211300. 4

Question Number : 86 Question Id : 5531722840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is a dietary fibre product and is used as nutraceutical to prevent cancer?

1. Psyllium seed husk
2. Broccoli (*Sulfora phane*)
3. Soy & clover products
4. Resveratrol

Options :

55317211301. 1

55317211302. 2

55317211303. 3

55317211304. 4

Question Number : 87 Question Id : 5531722841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A substance that releases hydroxyl ions or uses up hydrogen ions is

1. Neutral
2. Alkaline
3. Acidic
4. Toxic

Options :

55317211305. 1

55317211306. 2

55317211307. 3

55317211308. 4

Question Number : 88 Question Id : 5531722842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The branch of agriculture that deals with the cultivation of vegetable is

1. Olericulture
2. Floriculture
3. Viticulture
4. Arboriculture

Options :

55317211309. 1

55317211310. 2

55317211311. 3

55317211312. 4

Question Number : 89 Question Id : 5531722843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Certified seeds are obtained from

1. Breeder's seed
2. Nuclear seed
3. Foundation seed
4. Registered seed

Options :

55317211313. 1

55317211314. 2

55317211315. 3

55317211316. 4

Question Number : 90 Question Id : 5531722844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The exportable rice variety grown maximum in India is

1. Basmati
2. Jaya
3. Sona
4. Jeera

Options :

55317211317. 1

55317211318. 2

55317211319. 3

55317211320. 4

Question Number : 91 Question Id : 5531722845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The main edible part in carrot is

1. Root
2. Leaves
3. Flowers
4. Seeds

Options :

55317211321. 1

55317211322. 2

55317211323. 3

55317211324. 4

Question Number : 92 Question Id : 5531722846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The recent aerobic cultivation method in rice originated from

1. Madagascar
2. India
3. Japan
4. China

Options :

55317211325. 1

55317211326. 2

55317211327. 3

55317211328. 4

Question Number : 93 Question Id : 5531722847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The popular mango variety grown in Maharashtra which obtained GI tag is

1. Ratnagiri Alphanso
2. Mallika
3. Dasheri
4. Langra

Options :

55317211329. 1

55317211330. 2

55317211331. 3

55317211332. 4

Question Number : 94 Question Id : 5531722848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The major objective of greenhouse cultivation is to

1. protect crop from pests.
2. protect crop from diseases.
3. cultivate off-season crops.
4. beautify orchards.

Options :

55317211333. 1

55317211334. 2

55317211335. 3

55317211336. 4

Question Number : 95 Question Id : 5531722849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The crucial nutrient required during pegging in groundnut is

1. Sodium
2. Calcium
3. Sulphur
4. Zinc

Options :

55317211337. 1

55317211338. 2

55317211339. 3

55317211340. 4

Question Number : 96 Question Id : 5531722850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The little leaf in pigeon pea is caused by

1. Mycoplasma
2. Bacteria
3. Yeast
4. Aphids

Options :

55317211341. 1

55317211342. 2

55317211343. 3

55317211344. 4

Question Number : 97 Question Id : 5531722851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The double helix structure of DNA was proposed by

1. Johnson and Barbara McClintock
2. Wilkins and Franklin
3. Watson and Crick
4. Chargaff

Options :

55317211345. 1

55317211346. 2

55317211347. 3

55317211348. 4

Question Number : 98 Question Id : 5531722852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the double helix structure of DNA, the two strands are held together by

1. Zinc finger motifs
2. Sulfur bonds
3. Covalent bonds
4. Hydrogen bonds

Options :

55317211349. 1

55317211350. 2

55317211351. 3

55317211352. 4

Question Number : 99 Question Id : 5531722853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Sucrose is made up of

1. Glucose + Glucose
2. Glucose + Fructose
3. Fructose + Fructose
4. Glucose + Galactose

Options :

55317211353. 1

55317211354. 2

55317211355. 3

55317211356. 4

Question Number : 100 Question Id : 5531722854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the abundant polysaccharides present in plants.

1. Starch only
2. Glycogen only
3. Cellulose only
4. Both Starch and Glycogen

Options :

55317211357. 1

55317211358. 2

55317211359. 3

55317211360. 4

Question Number : 101 Question Id : 5531722855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is an example of sulphur containing amino acid?

1. Aspartic acid
2. Arginine
3. Glutamine
4. Methionine

Options :

55317211361. 1

55317211362. 2

55317211363. 3

55317211364. 4

Question Number : 102 Question Id : 5531722856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The cofactor required for alcohol dehydrogenase is

1. Copper
2. Iron
3. Zinc
4. Molybdenum

Options :

55317211365. 1

55317211366. 2

55317211367. 3

55317211368. 4

Question Number : 103 Question Id : 5531722857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The inactive form of an enzyme is referred to as

1. Ribozyme
2. Zymogen
3. Isozyme
4. Monozyme

Options :

55317211369. 1

55317211370. 2

55317211371. 3

55317211372. 4

Question Number : 104 Question Id : 5531722858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The formation of Enzyme - Substrate complex at the active site was postulated by

1. Michelis and Menton
2. Lehenger
3. Harper
4. Kreb

Options :

55317211373. 1

55317211374. 2

55317211375. 3

55317211376. 4

Question Number : 105 Question Id : 5531722859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is True?

1. All proteins are enzymes.
2. All enzymes are proteins only.
3. All enzymes are ribosomes only.
4. Enzymes are either proteins or ribosomes.

Options :

55317211377. 1

55317211378. 2

55317211379. 3

55317211380. 4

Question Number : 106 Question Id : 5531722860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Nobel Prize was awarded to F. Sanger for elucidation of

1. Primary structure of proteins.
2. Double Helix structure of DNA.
3. Deciphering of the genetic code.
4. Chromosomal theory of inheritance.

Options :

55317211381. 1

55317211382. 2

55317211383. 3

55317211384. 4

Question Number : 107 Question Id : 5531722861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The important co-factor for carboxylating enzyme is

1. Vitamin 2 (Riboflavin)
2. Vitamin B_6 (Pyridoxal)
3. Vitamin A
4. Vitamin D

Options :

55317211385. 1

55317211386. 2

55317211387. 3

55317211388. 4

Question Number : 108 Question Id : 5531722862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The type of proteins involved in nucleosome formation is

1. Glycoproteins
2. Non-histones
3. Histones
4. Metalloproteins

Options :

55317211389. 1

55317211390. 2

55317211391. 3

55317211392. 4

Question Number : 109 Question Id : 5531722863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

To which of the following sub-cellular organelle are the ribosomes normally attached to?

1. Nucleus
2. Peroxisomes
3. Endoplastic reticulum
4. Lysosomes

Options :

55317211393. 1

55317211394. 2

55317211395. 3

55317211396. 4

Question Number : 110 Question Id : 5531722864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Avery, MacLeod and McCarty carried out experiments to prove that

1. DNA is the carrier of genetic information.
2. Protein is the carrier of genetic information.
3. Carbohydrates are the carriers of genetic information.
4. Lipids are the carriers of genetic information.

Options :

55317211397. 1

55317211398. 2

55317211399. 3

55317211400. 4

Question Number : 111 Question Id : 5531722865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The spindle fibres originate from a special region of a cell known as

1. Lysosome
2. Peroxisome
3. Centrosome
4. Glyoxisome

Options :

55317211401. 1

55317211402. 2

55317211403. 3

55317211404. 4

Question Number : 112 Question Id : 5531722866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The plant which is also referred to as *Drosophilla* of the plant kingdom is

1. *Oryza sativa*
2. *Arabidopsis thaliana*
3. *Solanum esculentum*
4. *Zea mays*

Options :

55317211405. 1

55317211406. 2

55317211407. 3

55317211408. 4

Question Number : 113 Question Id : 5531722867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

During which phase does the recombination between the homologous chromosomes occur?

1. Anaphase I
2. Metaphase I
3. Prophase I
4. Telophase I

Options :

55317211409. 1

55317211410. 2

55317211411. 3

55317211412. 4

Question Number : 114 Question Id : 5531722868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The typical dihybrid ratio of Mendelian genetics is

1. 9 : 3 : 3 : 1
2. 1 : 2 : 1
3. 3 : 1
4. 1 : 1

Options :

55317211413. 1

55317211414. 2

55317211415. 3

55317211416. 4

Question Number : 115 Question Id : 5531722869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Among the following, the process that does not occur during genetic material exchange in bacteria naturally is

1. Transformation
2. Conjugation
3. Transduction
4. Electroporation

Options :

55317211417. 1

55317211418. 2

55317211419. 3

55317211420. 4

Question Number : 116 Question Id : 5531722870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The viruses which infect bacteria are called as

1. Bacteriophages
2. Plasmids
3. Cosmids
4. None of the above

Options :

55317211421. 1

55317211422. 2

55317211423. 3

55317211424. 4

Question Number : 117 Question Id : 5531722871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The cellular organelle responsible for extra chromosomal inheritance is

1. Mitochondria only
2. Chloroplast only
3. Nucleus only
4. Both Mitochondria and Chloroplast

Options :

55317211425. 1

55317211426. 2

55317211427. 3

55317211428. 4

Question Number : 118 Question Id : 5531722872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The nucleotide is composed of

1. N-base + pentose sugar + phosphate group
2. N-base + hexose sugar + phosphate group
3. N-base + phosphate group
4. Sugar + phosphate group

Options :

55317211429. 1

55317211430. 2

55317211431. 3

55317211432. 4

Question Number : 119 Question Id : 5531722873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The length of one turn of B-DNA helix is

1. 3.4 nm
2. 34 nm
3. 340 nm
4. 0.34 nm

Options :

55317211433. 1

55317211434. 2

55317211435. 3

55317211436. 4

Question Number : 120 Question Id : 5531722874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The RNA molecule involved in gene regulation is

1. mRNA
2. tRNA
3. rRNA
4. SiRNA

Options :

55317211437. 1

55317211438. 2

55317211439. 3

55317211440. 4

Question Number : 121 Question Id : 5531722875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The ^{32}P isotope that is commonly used in the biomolecular experiments is

1. Nucleic acids
2. Proteins
3. Carbohydrates
4. Fats

Options :

55317211441. 1

55317211442. 2

55317211443. 3

55317211444. 4

Question Number : 122 Question Id : 5531722876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The DNA replication in eukaryotes is in the mode of

1. Conservation type
2. Semi-conservation type
3. Disruptive type
4. Semi-disruptive type

Options :

55317211445. 1

55317211446. 2

55317211447. 3

55317211448. 4

Question Number : 123 Question Id : 5531722877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The initiation of DNA synthesis occur with the help of

1. Primase RNA primer
2. Polymerase, RNA primer
3. Primase DNA primer
4. Polymerase, DNA primer

Options :

55317211449. 1

55317211450. 2

55317211451. 3

55317211452. 4

Question Number : 124 Question Id : 5531722878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The modification that determines the stability of mRNA is

1. 5' capping only
2. 3' poly(A) tailing only
3. Splicing only
4. Both 5' capping and 3' poly(A) tailing

Options :

55317211453. 1

55317211454. 2

55317211455. 3

55317211456. 4

Question Number : 125 Question Id : 5531722879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The eukaryotic 80s ribosome has which of the following sub-units?

1. 60s and 40s
2. 30s and 50s
3. 23s and 16s
4. 60s and 20s

Options :

55317211457. 1

55317211458. 2

55317211459. 3

55317211460. 4

Question Number : 126 Question Id : 5531722880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An example of co-dominant molecular marker is

1. RAPD
2. ISSR
3. SSR
4. SRAP

Options :

55317211461. 1

55317211462. 2

55317211463. 3

55317211464. 4

Question Number : 127 Question Id : 5531722881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The RFLP technique involves which of the following steps?

1. DNA isolation, Restriction enzyme digestion and Hybridization
2. DNA isolation, Restriction enzyme digestion and PCR
3. DNA isolation, PCR and Restriction enzyme digestion
4. DNA isolation, PCR and Hybridization

Options :

55317211465. 1

55317211466. 2

55317211467. 3

55317211468. 4

Question Number : 128 Question Id : 5531722882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The molecular marker that DOES NOT require sequence information for its use is

1. RAPD
2. CAPS
3. SSR
4. SNP

Options :

55317211469. 1

55317211470. 2

55317211471. 3

55317211472. 4

Question Number : 129 Question Id : 5531722883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The transposable element discovered in maize is

1. Ac-Ds system
2. Copia element
3. P-element
4. G-element

Options :

55317211473. 1

55317211474. 2

55317211475. 3

55317211476. 4

Question Number : 130 Question Id : 5531722884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The promoter region of eukaryotic gene consists of following elements

1. TATA box, Initiation site, and GC box, ORI
2. GC box, CCAAT box, TATA box and initiation site
3. GC box, TATA box and CCAAT box, ORI
4. ORI, Initiation site and TATA box

Options :

55317211477. 1

55317211478. 2

55317211479. 3

55317211480. 4

Question Number : 131 Question Id : 5531722885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The latest genome editing tool used in genome manipulation is

1. TALEN
2. ZEN
3. CRISPER - CAS 9
4. RMAi

Options :

55317211481. 1

55317211482. 2

55317211483. 3

55317211484. 4

Question Number : 132 Question Id : 5531722886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The bioinformatics tool which is normally used to search the similarity of nucleotide sequences is

1. BLAST
2. PubMed
3. Motif finder
4. Primer – 3.0

Options :

55317211485. 1

55317211486. 2

55317211487. 3

55317211488. 4

Question Number : 133 Question Id : 5531722887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The bioinformatics tool which is used to design the primers for a given nucleotide sequence is

1. Primer – 3.0
2. Expansy
3. MISA
4. SNP digger

Options :

55317211489. 1

55317211490. 2

55317211491. 3

55317211492. 4

Question Number : 134 Question Id : 5531722888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An example of epigenetic modification, which controls the gene expression is

1. DNA methylation
2. Polyadenylation
3. Splicing of hnRNA
4. 5' capping of mRNA

Options :

55317211493. 1

55317211494. 2

55317211495. 3

55317211496. 4

Question Number : 135 Question Id : 5531722889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The whole genomic analysis of soil samples is

1. Glycomic
2. Metagenomics
3. Metabolomics
4. Proteomics

Options :

55317211497. 1

55317211498. 2

55317211499. 3

55317211500. 4

Question Number : 136 Question Id : 5531722890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A gene that may cause cancer is called

1. Metagene
2. Progene
3. Oncogene
4. Housekeeping genes

Options :

55317211501. 1

55317211502. 2

55317211503. 3

55317211504. 4

Question Number : 137 Question Id : 5531722891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Maize seed proteins are deficient in

1. Betadine only
2. Lysine only
3. Tryptophan only
4. Both Lysine and Tryptophan

Options :

55317211505. 1

55317211506. 2

55317211507. 3

55317211508. 4

Question Number : 138 Question Id : 5531722892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Tetrazolium test in assessing seed viability depends upon the activity of which of the following enzymes?

1. Hydrolases
2. Dehydrogenases
3. Hydrogenases
4. Ligases

Options :

55317211509. 1

55317211510. 2

55317211511. 3

55317211512. 4

Question Number : 139 Question Id : 5531722893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which of the following crops is the CO_2 compensation point about 0 – 5 ppm?

1. Rice
2. Amaranthus
3. Sunflower
4. Wheat

Options :

55317211513. 1

55317211514. 2

55317211515. 3

55317211516. 4

Question Number : 140 Question Id : 5531722894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

During photorespiration, CO_2 is released by decarboxylation of this compound in mitochondria?

1. Serine
2. Glutamine
3. Lysine
4. Glycine

Options :

55317211517. 1

55317211518. 2

55317211519. 3

55317211520. 4

Question Number : 141 Question Id : 5531722895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The nutrient element involved in the translocation of assimilates in the sieve tubes of phloem in plants is

1. Manganese
2. Copper
3. Potassium
4. Zinc

Options :

55317211521. 1

55317211522. 2

55317211523. 3

55317211524. 4

Question Number : 142 Question Id : 5531722896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the crop with relatively higher harvest index.

1. Rice
2. Sunflower
3. Redgram
4. Soybean

Options :

55317211525. 1

55317211526. 2

55317211527. 3

55317211528. 4

Question Number : 143 Question Id : 5531722897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The growth parameter which is indicative of leaf thickness in plants is

1. Specific leaf area
2. Leaf weight ratio
3. Specific leaf weight
4. Leaf area index

Options :

55317211529. 1

55317211530. 2

55317211531. 3

55317211532. 4

Question Number : 144 Question Id : 5531722898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bamboo is an example for

1. Polycarpic perennial
2. Monocarpic perennial
3. Polycarpic annual
4. Monocarpic annual

Options :

55317211533. 1

55317211534. 2

55317211535. 3

55317211536. 4

Question Number : 145 Question Id : 5531722899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The instrument that can be used to measure the water potential in a leaf / twig is

1. Osmometer
2. Psychrometer
3. Warburg apparatus
4. Scholander's pressure chamber

Options :

55317211537. 1

55317211538. 2

55317211539. 3

55317211540. 4

Question Number : 146 Question Id : 5531722900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Silicon is found to be an essential nutrient element for which of the following crops?

1. Sunflower
2. Green gram
3. Soybean
4. Rice

Options :

55317211541. 1

55317211542. 2

55317211543. 3

55317211544. 4

Question Number : 147 Question Id : 5531722901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The synthetic growth hormone that is used commercially to prevent bud and boll shedding in cotton crop is

1. IBA
2. NAA
3. IPA
4. IAA

Options :

55317211545. 1

55317211546. 2

55317211547. 3

55317211548. 4

Question Number : 148 Question Id : 5531722902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The light absorbing properties in phytochrome pigment is due to

1. Chromatid
2. Chlorophyll
3. Chromophore
4. Cytochrome

Options :

55317211549. 1

55317211550. 2

55317211551. 3

55317211552. 4

Question Number : 149 Question Id : 5531722903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The nutrient element involved is the elongation of pollen tube in the stigma of a flower is

1. Molybdenum
2. Silicon
3. Boron
4. Magnesium

Options :

55317211553. 1

55317211554. 2

55317211555. 3

55317211556. 4

Question Number : 150 Question Id : 5531722904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In cryopreservation, the plant material is maintained in liquid nitrogen at a temperature of

1. – 196°C
2. – 79°C
3. – 50°C
4. – 5°C

Options :

55317211557. 1

55317211558. 2

55317211559. 3

55317211560. 4

Question Number : 151 Question Id : 5531722905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i) Zn	(a) Peroxidase
(ii) Mo	(b) Nitrite reductase
(iii) Cu	(c) Nitrogenase
(iv) Fe	(d) Carbonic anhydrase

Select the correct option from the following.

1. (i) – (a), (ii) – (b), (iii) – (d), iv – (c)
2. (i) – (d), (ii) – (c), (iii) – (b), iv – (a)
3. (i) – (a), (ii) – (b), (iii) – (c), iv – (d)
4. (i) – (b), (ii) – (d), (iii) – (c), iv – (a)

Options :

55317211561. 1

55317211562. 2

55317211563. 3

55317211564. 4

Question Number : 152 Question Id : 5531722906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i)	Tetrahydrofolate	(a)	Aldehyde transfer
(ii)	Pyridoxal phosphate	(b)	Group transfer from/or to amino acid
(iii)	Co-enzyme A	(c)	Transfer one C-compound
(iv)	Thiamine pyrophosphate	(d)	Acyl group transfer

Select the correct option from the following.

1. (i) – (b), (ii) – (a), (iii) – (c), iv – (d)
2. (i) – (c), (ii) – (b), (iii) – (d), iv – (a)
3. (i) – (d), (ii) – (b), (iii) – (a), iv – (c)
4. (i) – (d), (ii) – (c), (iii) – (a), iv – (b)

Options :

55317211565. 1

55317211566. 2

55317211567. 3

55317211568. 4

Question Number : 153 Question Id : 5531722907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i)	Peroxisome	(a)	PEP carboxylase
(ii)	Pyridoxal phosphate	(b)	Glycolate oxidase
(iii)	Mitochondria	(c)	Nitrite reductase
(iv)	Chloroplast	(d)	Glycine decarboxylase

Select the correct option from the following.

1. (i) – (b), (ii) – (c), (iii) – (d), iv – (a)
2. (i) – (a), (ii) – (b), (iii) – (c), iv – (d)
3. (i) – (b), (ii) – (a), (iii) – (d), iv – (c)
4. (i) – (d), (ii) – (c), (iii) – (b), iv – (a)

Options :

55317211569. 1

55317211570. 2

55317211571. 3

55317211572. 4

Question Number : 154 Question Id : 5531722908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i) Toshio Murashige	(a) Transposon
(ii)Karry Mullis	(b) TCA
(iii) Barbara McClintock	(c) Tissue Culture
(iv) Hans Krebs	(d) PCR

Select the correct option from the following.

1. (i) – (d), (ii) – (a), (iii) – (b), iv – (c)
2. (i) – (a), (ii) – (b), (iii) – (c), iv – (d)
3. (i) – (c), (ii) – (d), (iii) – (a), iv – (b)
4. (i) – (d), (ii) – (c), (iii) – (b), iv – (a)

Options :

55317211573. 1

55317211574. 2

55317211575. 3

55317211576. 4

Question Number : 155 Question Id : 5531722909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i) Indian Institute of Rice Research	(a) Lucknow
(ii) National Botanical Research Institute	(b) Kanpur
(iii) Central Arid Zone Research Institute	(c) Jodhpur
(iv) Indian Institute of Pulse Research	(d) Hyderabad

Select the correct option from the following.

1. (i) – (a), (ii) – (c), (iii) – (d), iv – (b)
2. (i) – (c), (ii) – (d), (iii) – (a), iv – (b)
3. (i) – (d), (ii) – (a), (iii) – (c), iv – (b)
4. (i) – (a), (ii) – (d), (iii) – (b), iv – (c)

Options :

55317211577. 1

55317211578. 2

55317211579. 3

55317211580. 4

Question Number : 156 Question Id : 5531722910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i) Frost tolerance	(a) HSp70
(ii)Fruit ripening	(b) ABA
(iii) Stomatal closing	(c) DREB
(iv) High temperature tolerance	(d) Ethylene

Select the correct option from the following.

1. (i) – (d), (ii) – (c), (iii) – (b), iv – (a)
2. (i) – (c), (ii) – (b), (iii) – (d), iv – (a)
3. (i) – (d), (ii) – (a), (iii) – (b), iv – (c)
4. (i) – (c), (ii) – (d), (iii) – (b), iv – (a)

Options :

55317211581. 1

55317211582. 2

55317211583. 3

55317211584. 4

Question Number : 157 Question Id : 5531722911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i) *uid* A	(a) Luciferase
(ii) *bar*	(b) β-glucuronidase
(iii) *cry*1Ac	(c) EPSPS enzyme
(iv) *lux*	(d) Insecticidal gene

Select the correct option from the following.

1. (i) – (a), (ii) – (d), (iii) – (c), iv – (b)
2. (i) – (b), (ii) – (c), (iii) – (d), iv – (a)
3. (i) – (c), (ii) – (d), (iii) – (a), iv – (b)
4. (i) – (d), (ii) – (a), (iii) – (b), iv – (c)

Options :

55317211585. 1

55317211586. 2

55317211587. 3

55317211588. 4

Question Number : 158 Question Id : 5531722912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i) Rice	(a) Alphanso
(ii) Mango	(b) Sona
(iii) Groundnut	(c) Red lady
(iv) Papaya	(d) JL – 24

Select the correct option from the following.

1. (i) – (b), (ii) – (a), (iii) – (d), iv – (c)
2. (i) – (c), (ii) – (a), (iii) – (d), iv – (b)
3. (i) – (d), (ii) – (c), (iii) – (a), iv – (b)
4. (i) – (a), (ii) – (b), (iii) – (d), iv – (c)

Options :

55317211589. 1

55317211590. 2

55317211591. 3

55317211592. 4

Question Number : 159 Question Id : 5531722913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i)	Wheat	(a)	Rust
(ii)	Citrus	(b)	Die back
(iii)	Brinjal	(c)	Little leaf
(iv)	Potato	(d)	Late blight

Select the correct option from the following.

1. (i) – (b), (ii) – (c), (iii) – (d), iv – (a)
2. (i) – (c), (ii) – (d), (iii) – (a), iv – (b)
3. (i) – (a), (ii) – (b), (iii) – (c), iv – (d)
4. (i) – (a), (ii) – (d), (iii) – (b), iv – (c)

Options :

55317211593. 1

55317211594. 2

55317211595. 3

55317211596. 4

Question Number : 160 Question Id : 5531722914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the following.

(i)	Glyphosate	(a)	Artificial sweetener
(ii)	Aspartame	(b)	Herbicide
(iii)	Lycopene	(c)	Alkaloid
(iv)	Caffeine	(d)	Antioxidant

Select the correct option from the following.

1. (i) – (b), (ii) – (d), (iii) – (c), iv – (a)
2. (i) – (c), (ii) – (a), (iii) – (d), iv – (b)
3. (i) – (b), (ii) – (a), (iii) – (d), iv – (c)
4. (i) – (d), (ii) – (c), (iii) – (b), iv – (a)

Options :

55317211597. 1

55317211598. 2

55317211599. 3

55317211600. 4