

PREVIEW QUESTION BANK

Module Name : Genetics and Plant Breeding-ENG
Exam Date : 14-Jul-2023 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	2001	Choose the incorrect statement regarding the composition of election commission. 1. Appointment of the chief election commissioner and other election commissioners shall be made by the president. 2. President can also appoint regional commissioners after consultation with the election commission. 3. Conditions of service and tenure of office of the election commissioners and regional commissioners shall not be determined by the president. 4. Article 324 under constitution of India is dealing with the composition of election commission. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	2002	Which one of the following amendment acts is referred to as the 'mini constitution'? 1. 42nd 2. 44th 3. 46th 4. 48th A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	2003		4.0	1.00

With regard to the jurisdiction and powers of high court, disputes relating to the election of members of parliament and state legislatures, comes under the ambit of which one of the following jurisdictions?

1. Original
2. Writ
3. Appellate
4. Supervisory

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

4 2004

Which of the following is formed when the moisture is deposited in the form of water droplets on cooler surfaces of solid objects?

1. Frost
2. Fog
3. Mist
4. Dew

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

5 2005

Which of the following is the correct reason for the occurrence of best fishing grounds in the mixing zones (the mixing of warm and cold currents)?

1. It has the moderate temperature
2. It has the slowest sea waves
3. It has the high growth of planktons.
4. It has the sunrays perpendicular to the sea level.

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

6	2006	Eisenhower Cup is associated with which among the following sports? 1. Tennis 2. Chess 3. Football 4. Golf A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

7	2007	Who was the first woman President of the Indian National Congress? 1. Kasturba Gandhi 2. Sarojini Naidu 3. Annie Besant 4. Aruna Ali A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

8	2008	The dockyard was found in which of the following sites in Indus Valley Civilization? 1. Chanhudaro 2. Lothal 3. Kalibangan 4. Banawali A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
9	2009	Who built the famous Charminar of Hyderabad? - Krishndev Rai - Muhammad Quli Qutb Shah - Nadir Shah - Aurangzeb A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
10	2010	Who discovered the right triangle? - Pythagoras - Ancient Egyptians - Archimedes - Michelangelo A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
11	2011	Citrus canker is caused by - Virus - Viriod - Bacteria - Fungus	4.0	1.00

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
12	2012	DBM is a specific insect of 1. Brinjal 2. Tomato 3. Cabbage 4. Bottle gourd A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
13	2013	What is the scientific name of mulberry silkworm? 1. Bombyx mori 2. Antherea paphia 3. Antheraea assama 4. Attacus Ricinii A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
14	2014		4.0	1.00

Subject matter of economics are want, effort and

1. Wealth
2. Growth
3. Satisfaction
4. Income

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

15 2015

The National Bureau of Animal Genetic Resources (NBAGR) is located in

1. Karnal
2. Bengaluru
3. Hisar
4. Jind

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

16 2016

The oldest known agroforestry systems is

1. Alley cropping
2. Taungya systems
3. Home Gardening
4. Shifting cultivation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

17	2017	The effect or requirement of the relative length of day and night on flowering is called 1. Photomechanics 2. Transpiration 3. Photoperiodism 4. Phytoperiodism A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

18	2018	Which of the following statements are true? (A) Small pores in epidermis of leaves is called stomata. (B) Guard cells present in the stomata are helpful in exchange of gases with atmosphere (C) Transpiration takes place through stomata Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (B) and (C) only. 3. (A) and (C) only. 4. (A), (B) and (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	2019		4.0	1.00
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Water holding capacity is highest in which of the following soils?

1. Silt soil
2. Clayey soil
3. Chalk soil
4. Peat soil

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

20 2020

Certified seed is the progeny of

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

21 11001

Complete set of genes in a population is known as:

1. Genome
2. Gene pool
3. Genotype
4. Haplotype

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

22	11002	Given below are two statements: Statement (I) : When two dominant alleles affect the phenotype in separate, distinguishable ways is known as codominance. Statement (II) : When the phenotype of F1 is somewhere between the phenotypes of the two parents is known as incomplete dominance. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. Statement (I) is correct but Statement (II) is incorrect. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

23	11003	The exception to the 'Law of purity of gametes' or 'Law of Segregation' is/are? (A) Linkage (B) Nondisjunction (C) Meiotic drive (D) X-linked genes Choose the <i>correct</i> answer from the options given below: (A), (B) and (C) only. (B) only. (B), (C), only. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
24	11004	What is the full form of CRISPR? 1. Clustered regulatory interspaced short palindromic repeats 2. Clustered regularly interspersed short palindromic repeats 3. Clustered regulatory interspersed short palindromic repeats 4. Clustered regularly interspaced short palindromic repeats A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
25	11005	Genomic selection (GS) is a powerful tool which: (A) take account of all the major or minor QTLs spread throughout the genome. (B) is especially useful for complex traits. (C) take account of only major QTLs spread throughout the genome. (D) take account of only minor QTLs spread throughout the genome. Choose the correct answer from the options given below: 1. (A), (B) only. 2. (B), (C) only. 3. (C), (D) only. 4. (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
26	11006		4.0	1.00

More ears per plant trait in maize is called?

- (A) Multiplicity
- (B) Copiousness
- (C) Proficiency
- (D) Prolificacy

Choose the **correct** answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) only.
3. (C) and (D).
4. (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

27 11007

Which of the following involves unguided repair of a targeted DNA break by the natural endogenous DNA repair mechanism of the host (e.g. non-homologous end joining)?

- (A) SDN1
- (B) SDN2
- (C) SDN3
- (D) SDN4

Choose the **correct** answer from the options given below:

1. (A), (B) only.
2. (B), (C) only.
3. (A) only.
4. (B), (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

28	11008	Directorate of Groundnut Research is located in which city and state of India? 1. Junagadh, Rajasthan 2. Junagadh, Gujarat 3. Rajkot, Gujarat 4. Bikaner, Rajasthan A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

29	11009	The genes governing plant height in wheat which are identified from the genotype Norin 10 are? (A) <i>rht1</i> (B) <i>rht2</i> (C) <i>rht1.1</i> (D) <i>rht2.1</i> Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B) only. 4. (B), (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

30	11010		4.0	1.00
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Which of the mechanism promotes self-pollination in plants

1. Dichogamy
2. Cleistogamy
3. Heterostyly
4. Chasmogamy

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 11011

The female parent of transgenic mustard hybrid DMH 11 is

1. Varuna containing barnase gene
2. Varuna containing barstar gene
3. EH-2 containing barnase gene
4. EH-2 containing barstar gene

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

32 11012

The genotypic constitution of an F_2 plant is AaBBCcDd. What will be the total types of gametes produced if there is an independent assortment for each gene

1. 4
2. 8
3. 16
4. 9

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

		A4 : 4		
Objective Question				
33	11013	Kala namak is a traditional variety of 1. Rice from eastern Uttar pradesh 2. Wheat from Punjab 3. Mustard from Rajasthan 4. Maize from Sikkim A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
34	11014	Given below are two statements: Statement (I) : A-DNA has right-handed helix Statement (II) : A DNA has 10 BP/turn In light of the above statements,choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
35	11015		4.0	1.00

Match **List-I** with **List-II**

List-I	List-II
Crop plant	2n chromosome number
(A) Rice	(I) 42
(B) Bread Wheat	(II) 24
(C) Maize	(III) 14
(D) Bajra	(IV) 20

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

36 11016

Which of the rRNA is not a part of the larger sub-unit of the ribosome in eukaryotes

- 28s
- 5.8s
- 18s
- 5s

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

37 11017

4.0 1.00

During the expression analysis of an mRNA associated with disease resistance, the primer used for first-strand cDNA synthesis is

1. Oligo dT
2. Oligo dA
3. Oligo dG
4. Oligo dU

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

38 11018

What is the total number of monosomic lines possible in *Nicotiana tabacum*

1. 24
2. 48
3. 12
4. 36

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

39 11019

4.0 1.00

Under Indian seed legislation system, intercropping system is allowed for the production of certified seed class in

- (A) Groundnut
- (B) Green gram
- (C) Cucumber
- (D) Brinjal

Choose the **correct** answer from the options given below:

- 1. (A) and (B) only.
- 2. (B) and (C) only.
- 3. (C) and (D) only
- 4. (D) and (A) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

40 11020

Concept of 'Quality Declared Seed (QDS)' system was introduced by

- 1. OECD
- 2. ISTA
- 3. AOSA
- 4. FAO

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

41 11021

4.0 1.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : In hybrid seed production plot of GMS based hybrid, 50% of the female plants are rogued out.

Reason (R) : Male sterility phenotype in GMS line is governed by the nuclear recessive gene.

In light of the above statements, choose the **correct** answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42	11022	Foundation seed of female parent and certified seed of hybrid cannot be produced in the same season and location even by providing suitable isolation distance in	4.0	1.00
		1. CGMS based hybrid 2. GMS based hybrid 3. TGMS based hybrid 4. CHAs (Chemical Hybridizing Agents) based hybrid		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

43	11023		4.0	1.00

The ability of a seed to produce mucilage upon hydration is known as

1. Mesospermy
2. Myxospermy
3. Polyspermy
4. Monospermy

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

44 11024

Seed dispersal mode that facilitates in overcoming the physical dormancy of the seed

1. Amphizoochory
2. Mesozoochory
3. Endozoochory
4. Exozoochory

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

45 11025

4.0 1.00

Match **List-I** with **List-II**

List-I	List-II
Seed Processing Equipment	Effective for separation of
(A) Specific gravity separator	(I) Partially filled groundnut pods
(B) Indented Cylinder Separator	(II) Broken seeds
(C) Dodder mill	(III) Cuscuta seeds
(D) Spiral separators	(IV) Splits in soybean
	(V) Dead seeds from viable seeds

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (III), (C) - (II), (D) - (V)
- (A) - (V), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (IV), (B) - (III), (C) - (II), (D) - (V)
- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46 11026

Processing equipment used to separate weevil-damaged pea seeds

- Dodder mill
- Needle separator
- Buckhorn machine
- Air screen separator

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

47 11027

4.0 1.00

The seed container that is recommended for long term storage condition is

1. 700 gauge polyethene bags
2. Paper pouches
3. Trilayered aluminium foil pouches
4. Markin bags

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

48 I1028

Which among the following biological resources is outside the ambit of the National Biodiversity Authority

1. Animal Genetic Resources
2. Microbial Genetic Resources
3. Human Genetic Resources
4. Rare and endangered species

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

49 I1029

Which among the following is derived from a latin word that means 'To lay open'?

1. *Sui generis*
2. Germplasm
3. Patent
4. Priming

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

		A4 : 4		
Objective Question				
50	11030	In the Indian seed industry sector, which crop accounts for the highest hybrid seed market share 1. Maize 2. Cotton 3. Paddy 4. Vegetables A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
51	11031	Which among the following storage pest is an external feeder 1. <i>Sitophilus granarius</i> 2. <i>Stegobium paniceum</i> 3. <i>Tribolium castaneum</i> 4. <i>Sitotroga cerealella</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	11032	Annex 1 list of crops is a component of 1. Biological Diversity Act 2. ITPGRFA 3. Seed Act 4. Cartagena protocol A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

53	11033	Which among the following is NOT an indicator of seed ageing 1. Germination index 2. Electrical conductivity 3. First count of germination test 4. Number of fresh ungerminated seeds in the germination test A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

54	11034	The most destructive reactive oxygen species in seed 1. Superoxide anion free radical 2. Hydrogen peroxide 3. Hydroxyl free radical 4. Chlorine radical A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

55	11035		4.0	1.00
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In relation to import of transgenic material into the country for research /experimental purposes, which of the following statement is incorrect?

1. ICAR-National Bureau of Plant Genetic Resources, New Delhi is empowered to provide import permits for obtaining transgenic material for research in the country
2. DBT and the Ministry of Environment and Forest (MoEF) have separate set of prescribed procedures for providing permission for import of transgenic material into India for research/experimental purposes
3. Only the Department of Quarantine, Govt of India is authorized to issue the import permits for obtaining transgenic material for research
4. Review Committee on Genetic Manipulation (RCGM), constituted by DBT examines the desirability of import of transgenic line, from the biosafety point of view under the Environment (Protection) Act, 1986.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56 11036

For export of plant germplasm specific guidelines do not exist for which category of plant material?

1. Export of germplasm not covered under any collaborative research project with research institutes/counter parts, public-private transfer, private entities (Indian Citizen/Non-Indian), as per Section 3 (2); and Export of germplasm under collaborative research projects/work plans, under Section 5 of the BDA, 2002
2. Export of Annex 1 crops under ITPGRFA and FAO designated accessions of CG Centres located in India
3. Indian researcher/Government institution to carry/send germplasm for non-commercial research/or research for emergency purposes other than collaborative research
4. Send germplasm to a foreign entity or institution not covered under above three for commercial research purposes other than collaborative research

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

57	11037	GRIN, EURISCO, NARO and PGR Portal, respectively are plant genetic resources database and online resources of which countries or organizations? 1. IRRI, UK, Malaysia, ICRISAT 2. CIMMYT, Sweden, China, India 3. USA, Europe, Japan, India 4. Philippines, France, Malaysia, India A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

58	11038	The Probit Scales is used in PGR data analyses for what purposes in PGR informatics? 1. For machine learning and modelling in data analyses 2. To generate exploratory statistical graphics 3. For analyses of PGR data and relating to eco geographies 4. To impute missing data values in PGR database A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

59	11039	Molecular taxonomy generally refers to which of the following? 1. Use of diversity in biomolecules such as secondary metabolites for naming of organisms 2. Use of isozyme diversity for naming of organisms 3. Use of DNA analysis for naming of organisms without study of their morphology 4. Use of diversity in amino acid sequences for classifying organisms A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

60	11040	In taxonomy paired statements used for identification of unknown species are known as? 1. Taxonomic key 2. Dichotomous key 3. Polyclave keys 4. Alpha Taxonomic key A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

61	11041	Below mentioned are statements about biosecurity. Which of these are correct? 1. Includes measures to prevent conduct of experiments to induce functional changes in pathogen 2. It includes all measures towards bio-exclusion and bio-containment of pathogen and prevent the spread of pathogen to humans, animals, plants and the environment 3. It refers only to prevention of introduction of transboundary pathogen 4. It aims only at regulating research related to construction of new pathogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

62	11042		4.0	1.00
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As per the wholistic approach to Biosecurity adopted by FAO in 2018, the process excludes which of the following?

1. All relevant government activities including those of research institutes and universities and civil society associations
2. All relevant authorities and legislation, public opinion and consumers as well as private industries
3. All primary producers of food and animal feed
4. All religious activities involving general public

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

63	11043	Given below are two statements: Statement (I) : Domestication leads to morphological changes but not the substantial genetic background Statement (II) : Domestication of crop plants is slow and evolutionary process without the intervention of human In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are false. 2. Statement (I) is true and Statement (II) is false. 3. Statement (II) is true but Statement (I) is false. 4. Both Statement (I) and Statement (II) are true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

64	11044		4.0	1.00
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Consider the following statements:

Piper nigrum

- (A) Plant has catkin spike inflorescence.
- (B) Fruit is drupe and large part of seed is endosperm
- (C) White pepper is a processed product
- (D) Belongs to family Myrtaceae

Which of these statements are correct?

- 1. (A) and (B) only.
- 2. (C) and (D) only.
- 3. (A) and (C) only
- 4. (B) and (C) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

65 11045

Edible pulp in banana develops from _____ and juicy edible part of pomegranate is _____.

- 1. Outer integument of seed and ovary wall
- 2. Ovary wall and outer integument of seed
- 3. Complete ovary and whole integument of seed
- 4. Neither of above

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

66 11046

4.0 1.00

True resin is obtained from _____ oleo-resin is obtained from _____ and
amber resin is obtained from _____.

1. *Shorea robusta*, *Pinus longifolia* and *Pinites succinifera*
2. *Shorea robusta*, *Delbergia longifolia* and *Pinus succinifera*
3. *Pinus longifolia*, *Pinites succinifera* and *Parthenium argentatum*
4. *Acacia arabica*, *Sterculia urens* and *Pinus succinifera*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

67 11047

4.0 1.00

Match **List-I** with **List-II**

List-I	List-II
(Book/Theory proposed/ Characteristic, etc.)	(Author/Thinker/ Name of Theory, etc.)
(A) Para Grass	(I) <i>Pennisetum purpureum</i>
(B) Napier Grass	(II) <i>Bracharia mutica</i>
(C) Guinea Grass	(III) <i>Dicanthium annulatum</i>
(D) Marvel Grass	(IV) <i>Panicum maximum</i>

Choose the **correct** answer from the options given below:

1. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
2. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
3. (A) - (III), (B) - (I), (C) - (II), (D) - (IV)
4. (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

68 11048

4.0 1.00

The information management is crucial in plant genetic resources management and following data is must for germplasm use :

- (A) Passport data, Characterization and conservation data
- (B) Prebreeding data and evaluation data
- (C) Exchange of germplasm data
- (D) Taxonomic data

Choose the **correct** answer from the options given below:

- 1. Only (A) is correct
- 2. Only (B) is correct
- 3. Only (A) & (B) are correct
- 4. All are correct

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

69	11049	Herbaria throughout the World are registered with:	4.0	1.00
		1. Royal Botanical Garden 2. New York Botanical Garden 3. British Museum of Natural History 4. Index Herbariorum		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

70	11050		4.0	1.00

Match **List-I** with **List-II**

List-I	List-II
(A) Long bean	(I) <i>Psophocarpus tetragonolobus</i>
(B) Tree bean	(II) <i>Vigna sesquipedalis</i>
(C) Winged bean	(III) <i>Canavalia gladiata</i>
(D) Sword bean	(IV) <i>Parkia roxburghii</i>

Choose the **correct** answer from the options given below:

- (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
- (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
- (A) - (III), (B) - (I), (C) - (II), (D) - (IV)
- (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

71 1000101

Degree to which a genotype gets expressed in the phenotype is known as?

- Penetrance
- Expressivity
- Incomplete dominance
- Co-dominance

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

72 1000102

4.0 1.00

In case of Organelle Transformation

- (A) Mitochondria transformation is exploited much
- (B) No transgene escape
- (C) Chloroplast transformation is exploited much
- (D) High level of gene expression

Choose the **correct** answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (C) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73 1000103

4.0 1.00

Genes for blast resistance in rice are:

- (A) Pi2
- (B) Pi54
- (C) Pi9
- (D) Pit9

Choose the **correct** answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

74 1000104

4.0 1.00

Given below are two statements:

Statement (I) : Sex-limited genes are present in both sexes but expressed in only one sex and remain 'turned off' in the other.

Statement (II) : Sex-limited genes are present on X-chromosome.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75	1000105
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Chromosome Substitution Lines (CSLs) can be easily created using?

1. Mutation breeding
2. Forward breeding
3. Recombination breeding
4. Reverse breeding

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0	1.00
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Objective Question

76	1000106
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4.0	1.00
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Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Sometimes two or more genes interact to form a phenotype.

Reason (R) : Modified dihybrid ratio is due to the gene interaction or epistasis.

In light of the above statements, choose the **correct** answer from the options given below.

- Both (A) and (R) are true and (R) is the correct explanation of (A).
- Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (A) is true but (R) is false.
- (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

77 1000107

4.0 1.00

Match **List-I** with **List-II**

List-I	List-II
(Researcher/Scientist)	(Country)
(A) Hugo Marie de Vries	(I) Swiss botanist
(B) Karl Franz Joseph Correns	(II) Austrian plant breeder
(C) Erich von Tschermak-Seysenegg	(III) German plant geneticist
(D) Carl Wilhelm von Nägeli	(IV) Dutch biologist

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

78	1000108	Given below are two statements: Statement (I) : Recombinant DNA is possible because DNA shares the same chemical structure. Statement (II) : Isoschizomers are the restriction endonuclease having different recognition sequences and cleavage sites. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. Statement (I) is correct but Statement (II) is incorrect. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1000109	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Imidazolinone group of herbicides kills weeds by inhibiting acetohydroxyacid synthase (AHAS) or acetolactate synthase (ALS) enzyme. Reason (R) : It is a critical enzyme involved in the biosynthesis of branched-chain amino acids like leucine, isoleucine and valine in plants. In light of the above statements, choose the <i>correct</i> answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

80 1000110

4.0 1.00

Given below are two statements:

Statement (I) : Canopy greenness is measured by green seeker or NDVI (Normalised Difference Vegetation Index).

Statement (II) : NDVI is also used to estimate the nitrogen levels in many agricultural crops.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. **Both Statement (I) and Statement (II)** are incorrect.
2. **Both Statement (I) and Statement (II)** are correct.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

81 1000111

4.0 1.00

Traits which is/are considered 'not suitable' in a crop which is selected for molecular farming?

- (A) Abundant pollen production
- (B) Abundant, small and easily dispersed seed production
- (C) Spontaneous mating with wild relatives
- (D) Negligible chance of gene flow by outcrossing

Choose the *correct* answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

82 1000112

4.0 1.00

Given below are two statements:

Statement (I) : The P-value is the probability of getting a result that is either the same or more extreme than the actual observations.

Statement (II) : The P-value range between 0 and 1.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

83 1000113

4.0 1.00

Given below are two statements:

Statement (I) : Median is the middle score for a set of data that has been arranged in order of magnitude.

Statement (II) : The median is less affected by outliers and skewed data.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are incorrect.
2. Both **Statement (I)** and **Statement (II)** are correct.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

84	1000114	Given below are two statements, one is labelled as Assertion (A) and other one labelled a Reason (R). Assertion (A) : Maternal haploid induction is frequently used in maize for doubled haploid (DH) production. Reason (R) : It gives a higher haploid induction rate, and haploids also retain the cytoplasmic and nuclear genome of the female parent. In light of the above statements, choose the correct answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1000115	The genome size of humans are nearly? 1 Gb 1.5 Gb 2 Gb 3 Gb A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

86	1000116		4.0	1.00
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Given below are two statements:

Statement (I) : If the fertility gradient runs in one direction (say from north to south or east to west), then the blocks are formed in the opposite direction.

Statement (II) : Such an arrangement of grouping the heterogeneous units into homogenous blocks is known as complete randomized design (CRD).

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87 1000117

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : In the case of TGMS rice lines, male fertility is induced at $<25^{\circ}\text{C}$, and male sterility at higher temperatures just after panicle initiation.

Reason (R) : Male sterile line propagation can be done by growing the rice TGMS plants under environmental conditions favoring male sterility.

In light of the above statements, choose the *correct* answer from the options given below.

1. Both **(A)** and **(R)** are true and **(R)** is the correct explanation of **(A)**.
2. Both **(A)** and **(R)** are true but **(R)** is NOT the correct explanation of **(A)**.
3. **(A)** is true but **(R)** is false.
4. **(A)** is false but **(R)** is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

88	1000118	Given below are two statements: Statement (I) : The mixed linear model (MLM) uses the assumption that the ‘Genetically similar individuals more likely to be correlated than those of different individuals’ Statement (II) : In MLM, both population structure (Q-matrix) and pairwise kinship (K-matrix) are used to maximize the false positive associations. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. Statement (I) is incorrect but Statement (II) is correct. Statement (I) is correct but Statement (II) is incorrect. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

891000119

4.01.00

Match **List-I** with **List-II**

List-I	List-II
(Trait/Crop/Characteristic, etc.)	(Crop/Variety/Discoverer/Concept)
(A) Hidden hunger	(I) Bhu Krishna
(B) Biofortification	(II) Micronutrient malnutrition
(C) Pearl Millet	(III) Steve Beebe
(D) Sweet potato	(IV) Dhanashakti

Choose the *correct* answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

90	1000120	Which of the following methodology 'Searches a QTL in a region while simultaneously fitting multiple regression coefficients for "background markers" to adjust the effects of other QTLs outside the region'? 1. Simple Interval mapping (SIM) 2. Composite interval mapping (CIM) 3. Single marker analysis (SMA) 4. Bayesian method A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

91	1000121	The miRNAs are : (A) Evolutionarily conserved (B) Regulating the growth of plants & animals, organ development, cell apoptosis, etc. (C) Time, order and tissue specific (D) Combines with 3'-UTR region of target gene Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

92	1000122	The Randomized Block Design (RBD) is used (A) to analyze the data using 'missing plot technique' (B) to reduce the experimental errors (C) to increase the precision (D) when the treatments are in very large numbers Choose the correct answer from the options given below: (A), (B) and (C) only. (A), (B) and (D) only. (A), (B), (C) and (D). (B) and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1000123	Multiparent advanced generation intercross (MAGIC) populations: (A) are the RILs derived from a complex cross involving multiple parents. (B) are derived by only one round of recombination which increases its mapping precision and resolution. (C) can be used, directly or indirectly for variety development. (D) are used for the mapping of multiple traits, and multiple alleles. Choose the correct answer from the options given below: (A), (B) and (D) only. (A), (B) and (C) only. (A), (C) and (D) only. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question			
94	1000124	Which of the following is not part of functional genomics: 1. Genome sequencing and mapping 2. DNA arrays and chips 3. Chromatography and mass spectrometry 4. qRT-PCR and RNA Seq A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0 1.00
Objective Question			
95	1000125	If RNAseq library have 300 bp fragments and we did a PE100 bp (Paired End 100bp) run, then what will be the mate inner distance? 1. 300 2. 200 3. 100 4. 0 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0 1.00
Objective Question			
96	1000126	A shrunken gene-based pure sweetcorn inbred line was crossed with a pure normal corn inbred line as a male parent. The F_1 plant was detasseled and backcrossed with normal corn inbred line. What will be the phenotype of the BC_1F_1 seed? 1. All seed will be normal corn type 2. All seed will be sweet corn type 3. Half of seed will be sweet corn type 4. All the seed will be intermediate A1 : 1 A2 : 2	4.0 1.00

A3 : 3

A4 : 4

Objective Question

97	1000127	The book entitled "Quantitative genetics in maize breeding" is authored by 1. E M East and H K Hayes 2. G H Shull and D F Jones 3. A R Hallauer and J B Miranda 4. K Mather and J L Jinks A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1000128	The founder editor of "Indian Journal of Genetics and Plant Breeding" was 1. B P Pal 2. M S Swaminathan 3. A B Joshi 4. T S Venkataraman A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

99	1000129	The gene encoding for seed coat colour in pea plants observed by G J Mendel is coding for 1. Helix loop helix transcription factor 2. Myb Transcription factor 3. NAC transcription factor 4. NLR domain A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

100 1000130

4.0 1.00

The cytoplasm of bread wheat (*Triticum aestivum* L.) was inherited from

1. A genome progenitor
2. B genome progenitor
3. C genome progenitor
4. D genome progenitor

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101 1000131

4.0 1.00

In Flor's experiment on linseed rust, a plant with the genotypic constitution of *LLNN* for resistance gene will be susceptible to pathogen with the genotypic constitution of

1. heterozygous ($Avr^Lavr^LAvr^Navr^N$)
2. homozygous dominant ($Avr^LAvr^LAvr^NAvr^N$)
3. homozygous recessive ($avr^Lavr^Lavr^Navr^N$)
4. both heterozygous ($Avr^Lavr^LAvr^Navr^N$) and homozygous recessive ($avr^Lavr^Lavr^Navr^N$)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102 1000132

4.0 1.00

The monosomic series in the Indian wheat variety “C591” was developed by

1. M S Swaminathan and co-worker
2. Ram Dhan Singh and co-worker
3. B P Pal and co-worker
4. A B Joshi and co-worker

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103 1000133

Which of the following rice species is perennial in nature

1. *Oryza nivara*
2. *Oryza rufipogon*
3. *Oryza glaberrima*
4. *Oryza sativa*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

104 1000134

Given below are two statements:

Statement (I) : The tetraploid wheat species *Triticum dicoccoides* is shattering in nature

Statement (II) : The shattering nature is because of *Brittle rachis gene* in homozygous recessive condition (*brbr*)

In light of the above statements, choose the **most appropriate** answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

4.0 1.00

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
105	1000135	The major gene named <i>tb1</i> associated with maize plant architecture codes for 1. TCP transcription factor 2. Auxin responsive factor 3. NAC transcription factor 4. HD-ZIP transcription factor A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
106	1000136	In a population of maize with A_1 and A_2 alleles at a given locus, the genotypic value of A_1A_1 is +a, and A_2A_2 is -a. The allele frequency of A_1 is p, and A_2 is q. The A_1 allele has increasing value and has complete dominance over the A_2 allele. What will be the population mean if the mean environmental deviation is supposed to be zero? 1. $M = a(1-2q)$ 2. $M = a(1-2p)$ 3. $M = a(1-2q^2)$ 4. $M = a(1-2p^2)$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
107	1000137		4.0	1.00

In prokaryotes, the length of Okazaki fragments ranges between

1. 0.1 to 0.2 kb
2. 1 to 2 kb
3. 10 to 20 kb
4. 10 to 20 bp

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108 1000138

Gossypium herbaceum L. and *Gossypium thurberi* Tod. were crossed to generate an F₁ plant. During cytological analysis of F₁ plant to understand chromosome pairing, there will be the presence of

1. 26 univalents
2. 26 bivalents
3. 13 univalents
4. 13 univalents and 13 bivalents

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

109 1000139

During genetic analysis of disease-resistant genetic stock, the F₁ plant developed by crossing with contrasting susceptible plants was found to be susceptible. The phenotypic data of 200 F₂ plants showed 89 resistant plants and 111 susceptible plants. Further, during the phenotypic evaluation of each 200 F_{2:3} families, only 13 families were found to be non-segregating homozygous susceptible. The result indicates the presence of

1. one dominant and one recessive resistance gene at independent location
2. two dominant resistance genes at independent location
3. two recessive resistance genes at independent location
4. two dominant resistance genes with complete linkage

A1 : 1

4.0 1.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1000140

4.0 1.00

Given below are two statements:

Statement (I) : DNA topoisomerase II is involved in separation of interlocked circular molecule of DNA

Statement (II) : DNA topoisomerase II makes a double stranded nick in DNA

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are true.
2. Both **Statement (I)** and **Statement (II)** are false.
3. **Statement (I)** is true but **Statement (II)** is false.
4. **Statement (I)** is false but **Statement (II)** is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111 1000141

4.0 1.00

Given below are two statements:

Statement (I) : The core RNA polymerase enzyme in prokaryotes starts the transcription at random sites

Statement (II) : The holoenzyme RNA polymerase in prokaryotes recognize promoter and transcription start sites in DNA

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are true.
2. Both **Statement (I)** and **Statement (II)** are false.
3. **Statement (I)** is true but **Statement (II)** is false.
4. **Statement (I)** is false but **Statement (II)** is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112	1000142	The application of metabolic poison alpha-Amanitin leads to complete inhibition of activity of 1. RNA polymerase I 2. RNA polymerase II 3. RNA polymerase III 4. DNA polymerase I A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

113	1000143	Most ideal stage for chromosome counting during meiosis is 1. Diplotene 2. Diakinesis 3. Metaphase I 4. Metaphase II A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

114	1000144	Wheat <i>Rht</i> mutant is a GA insensitive- gain of function mutation in which protien? 1. DELLA 2. GID1 3. GA20 OXIDASE 4. GA 3 OXIDASE	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

115 1000145

4.0

1.00

Match **List-I** with **List-II**

Crop	Variety
(A) PB 1509	(I) Bajra
(B) HD 2967	(II) Rice
(C) HM 4	(III) Wheat
(D) HHB 67	(IV) Maize

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116 1000146

4.0

1.00

Which wild species is the source of A₂ male sterile cytoplasm in pigeonpea

- Cajanus platycarpus*
- Cajanus cajanifolius*
- Cajanus scarabaeoides*
- Cajanus sericeus*

A1 : 1

A2 : 2

A3 : 3

		A4 : 4		
Objective Question				
117	1000147	The reaction rate in prokaryotes is fastest for 1. DNA replication 2. Transcription 3. Translation 4. Mutation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	1000148	"A PURE-LINE METHOD IN CORN BREEDING" presented to AMERICAN BREEDERS' ASSOCIATION meet by 1. E M East 2. G H Shull 3. H K Hayes 4. D F Jones A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
119	1000149		4.0	1.00

Given below are two statements:

Statement (I) : Five parameter model of generation mean analysis uses P_1 , P_2 , F_1 , F_2 and F_3 generation of a single cross.

Statement (II) : This model does not provide information about additive X additive type of epistasis.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

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Given below are two statements:

Statement (I) : Replicative transposons are found only in prokaryotes

Statement (II) : Reterotransposons are found both in eukaryotes and prokaryotes

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are true.
2. Both **Statement (I)** and **Statement (II)** are false.
3. **Statement (I)** is true but **Statement (II)** is false.
4. **Statement (I)** is false but **Statement (II)** is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4