

TEST NO. 6**CH – 15****BIOLOGY****Time Allowed: 15 Minutes****10th Class-2020****Paper : (Objective Type)****Maximum Marks: 12**

Note:- You have four choices for each objective type question as A,B,C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero in that question.

Q. I	QUESTIONS	(A)	(B)	(C)	(D)
1.	Transmission of characters from parent to offspring is called	Inheritance	Mutation	Regeneration	Reproduction
2.	Expression of gene in the form of trait is called.	Genotype	Karyotype	Phenotype	Body type
3.	Alternative form of a gene are called.	Allele	DNA	Chromosome	Gamete
4.	Ribosome reads the sequence of mRNA nucleotides and joins specific amino acids to form protein. This step is known as.	Combination	Replication	Transcription	Translation
5.	Example of Co-dominance is.	Blood group ABO system	Blood group A	Blood group B	Blood group O
6.	Person with blood group O has Genotype.	$I^A I^A$	$I^n i$	$I i$	$I^A I^n$
7.	Phenotypes ratio in incomplete dominance.	1:3:3	3:1	1:3	1:2:1
8.	If an organism have genotype of AAbb, how many types of gametes can it produce.	3	2	1	4
9.	The specific combination of genes in an individual is called.	Phenotype	Genotype	Karyotype	Phenocopy
10.	How many pairs of homologous chromosomes are present in human body cells.	22	23	24	25
11.	The location or position of genes on chromosomes are called.	Loci	Alleles	Phenotypes	Genotypes
12.	James Watson and Francis Crick proposed the structure of DNA in	1953	1963	1933	1922

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1	(A)	(B)	(C)	(D)	4	(A)	(B)	(C)	(D)	7	(A)	(B)	(C)	(D)	10	(A)	(B)	(C)	(D)
2	(A)	(B)	(C)	(D)	5	(A)	(B)	(C)	(D)	8	(A)	(B)	(C)	(D)	11	(A)	(B)	(C)	(D)
3	(A)	(B)	(C)	(D)	6	(A)	(B)	(C)	(D)	9	(A)	(B)	(C)	(D)	12	(A)	(B)	(C)	(D)

نوٹ: معروضی سوال نامے کو توجہ سے پڑھیں اور ہر MCQ کی درست آپشن A, B, C, D کو پین کی سیاہی یا مارکر سے اس طرح پُر کریں کہ سیاہی دائرے سے باہر نہ نکلے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہوگا۔

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TEST NO. 6

CH- 15

BIOLOGY

Time Allowed: 1:45 hours

2020-10th Class

Paper : (Essay Type)

Maximum Marks: 48

(PART – I)

2. Write short answers to any FIVE (5) questions: 10

- (i) Define traits and give examples.
- (ii) What is meant by inheritance?
- (iii) What is Genotype? Write names of its types.
- (iv) What are Homologous chromosomes/
- (v) What is meant by Homozygous and Heterozygous?
- (vi) Differentiate between dominant and recessive allele.
- (vii) Describe the concept of Genotype with example.
- (viii) Define Transcription and Translation.

3. Write short answers to any FIVE (5) questions: 10

- (i) What is meant by Nucleosomes?
- (ii) Make a list of Nitrogen bases present in the double helix of DNA.
- (iii) Describe Mendel's law of Segregation.
- (iv) Define Monohybrid and Dihybrid cross.
- (v) What is Punnett square?
- (vi) What is co-dominance? Give an example.
- (vii) What are discontinuous variations? Give an example.
- (viii) How many important processes take place in organic evolution?

4. Write short answers to any FIVE (5) questions: 10

- (i) What is meant by Artificial selection?
- (ii) What is Template strand?
- (iii) What is meant by Gene and Locus.
- (iv) Define Genetics.
- (v) Difference between Gene and Allele
- (vi) Write two points of Watson-Crick Model of DNA.
- (vii) Define Mendel's law of independent Assortment.
- (viii) What is incomplete dominance? Give one example.

(PART – II)

Note:- Attempt any TWO questions.

- 5. (a) Why did Mendel select the sweet pea for his experiment? Write some of its characteristics. 5**
(b) State Mendel's Law of Segregation. Explain it with the help of crosses and example. 4
- 6. (a) Explain Artificial Selection. 5**
(b) Explain Watson-Crick Model of DNA. 4
- 7. (a) Explain Mendel's law of Segregation. 5**
(b) Prove that variations lead to evolution. 4