CLASS: X NCERT (CBSE) BIOLOGY: For Class 10	Page: 1	
HEREDITY AND EVOLUTION		
Question 1: Alternative forms of a gene are called		
1. loci		
2. multiples		
3. chromosomes		
4. alleles		
	Answer:	4
Question 2: Heredity or inheritance of specific traits became clearer due to		
1. Lamarck's theory		
2. Mendel worked on garden peas		
3. Darwinism		
4. Neo-Darwinism		
	Answer:	2
Question 3: Which of these is homozygous recessive?		
1. Ss		
2. ss		
3. SS		
4. s		
	Answer:	2
Question 4: What will be the genotypic ratio of the cross between Rr and rr?		
1. 1:2:1		
2. 3:1		
3. 1:1		
4. 1:1:1		
	Answer:	3
Question 5: What will be the genotypic ratio of the cross between Rr and Rr?		

1. 1:1

2.3:1

3. 1:2:1

4. 1:1:1

Answer: 3

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CLASS: X NCERT (CBSE) BIOLOGY: For Class 10	Page: 2)
HEREDITY AND EVOLUTION		
Question 6: The offspring resulting from a cross between two pure homozygo	us	
recessives would be		
1. 50% homozygous recessive and 50% homozygous dominant		
2. 75% homozygous recessive and 25% heterozygous dominant		
3. 75% homozygous recessive and 25% homozygous dominant		
4. 100% homozygous recessive		
	Answer:	4
	miswei.	7
Question 7: On what cellular structures are genes in eukaryotes carried?		
1. Endoplasmic reticulum		
2. Nuclear membrane		
3. Chromosomes		
4. Mitochondria		
	Answer:	3
Question 8: Which of the following sentences is true about the evolutionary p	rocess?	
1. There is no real 'progress' in the idea of evolution.		
2. humans are unique, a totally new type of organism.		
3. progress is nature's religion.		
4. Evolution of life forms was rapid in the beginning ages.		
	Answer:	1
Question 9: Microevolution takes place due to		
question 3. mieroevoration tance place due to		
1. somatogenic variation		
2. blastogenic variation		
3. continuous variation		
4. Successive variation		

Answer: 2

Question 10: In man the chromosome number is 46. How many chromosomes are present in man's muscle cells?

1.23

2.46

3.69

4. variable

Answer: 2

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CLASS	S: X NCE	RT (CBSE)	Hanna Tara	BIOLOGY: For Class 10	Page:3	3
Question	11:	The difference	HEREDITY AND EVOL e between Homo sat	итюм piens and the Homo erectu	ıs was	
			•	•		
	1. Homo	sapiens origin	ated in Africa while	Homo erectus was in Asia	a	
		-		e than homo sapiens.	-	
			d in Africa while Ho	-		
		•		was smaller to homo sapie	ens	
					Answer:	4
Orrestion	10.	The common on o	nt of a alamama a ama			
Question	12:	The compone	int of a chromosome	e that controls heredity is _	•	
			1. proteins			
			2. histones			
			3. DNA			
			4. RNA			
					Answer:	3
Question	13:	Speciation tal	kes place when vari	ation occurs with		
		1	mood changes			
		2	2. death of an organi	ism		
		3	3. changes due to ac	cidents		
		4	l. geographical isola	tion		
					Answer:	4
Question	14:	Number of ch	iromosomes in a hu	man male is		
			1 00			
			1. 23			
			2. 23 pairs	37		
			3. 22 pairs + X	.Y		
			4. 22 pairs			
					Answer:	3
Question	15:	By studying a	analogous structure	s we look for		
	1. simil	larities in appe	earance and functio	n but different in structur	e	
	2. simil	larities in appe	earance bur differen	nces if functions		
		larities in orga				
		larities in cell				
					Answer:	1

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CLASS: X NC	HEREDITY AND EVOLUTION	PAGE: 4	ŀ
Question 16:	was a predecessor of Darwin's and developed the acquired characteristics.	theory o	of
	1. Weismann		
	2. Mendel		
	3. Malthus		
	4. Lamarck		
		Answer:	4
Question 17:	Which of these is not a living fossil?		
	1. Archaeopteryx		
	2. Duck-billed platypus		
	3. Lungfish		
	4. Frog	١	1
Question 18:	Which of the following are not examples of analogous struct 1. Wings of bat and butterfly	Answer: ures?	1
	2. Wings of bat and forelimb of cattle		
	3. Thorn and spine		
	4. Tendril of Lathyrus and tendril of Gloriosa		
	-	Answer:	2
0			
Question 19:	The scientist who cut off the tails of mice of successive gene prove Lamarck's theory wrong was	rations t	0
	1. Weismann		
	2. Haeckel		
	3. Darwin		
	4. Wallace		
	A	Answer:	1
Question 20:	Human being belongs to the species of		
	1. Homo erectus		
	2. Homo habillis		
	3. Homo sapiens		
	4. Hominidae		_
	P	Answer:	3
Question 21:	Links between organisms that show branching pattern of evrelationships are shown by	olutiona	ıry
	1. living fossils		
	2. comparative embryology		
	3. phylogenetic trees		
	4. two fossil layerss		
	A	Answer:	3

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CLASS: X NO	CERT (CBSE)	BIOLOGY: For Class 10	Page:5)
Question 22:	Speciation is	HEREDITY AND EVOLUTION the evolutionary process by which		
	1. a nev	v gene pool is formed		
	2. evolu	tionary paths of species converge		
	3. hybri	ds species form		
	4. Show	s up differences in physical traits		
			Answer:	1
Question 23:	Non geograph	nic speciation can be found in		
		1. parapatric speciation		
		2. peripatric speciation		
		3. allopatric speciation		
		4. sympatric speciation		
			Answer:	1
Question 24:	Evidences of	evolutionary relationships is found in		
		1. atmosphere		
		2. fossils		
		3. ocean beds		
		4. rocks		
			Answer:	2
Question 25:	In dogs the cl present in the	hromosome number is 78. How many chromo e dog sperm?	somes are	<u>,</u>
	1.78			
	2.39			
	3. canno 4. varial	ot determine from this information ble		
			Answer:	1
Question 26:	Homologous called	chromosomes which are similar in both the se	exes are	
		1. sex chromosomes		
		2. autosomes		
		3. allosomes		
		4. androsomes		
			Answer:	2

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