## UNIT TEST - I

	STANDA	ARD – X	Reg.No.	
Time: 45 min.	SCIEN	CE		Marks: 25
inform the H 2. Use Blue o Note: 1. This question	all supervisor in or Black ink to von paper contain calculator is per	nmediately. Write and pencil Three section s.	rinting. If there is to draw diagrams	•
Note: i) Answer all the qu	estion.			5×1=5
ii) Choose the corre	ect answer from	n the alternative	es given in the b	rackets
1. The inheritance of cha	racteristics throu	gh generation is ca	alled "heredity". In	ı Mendel's Pisum
sativum plant, the gen	etic material pres	ent is	_•	
i)DNA	ii) RNA	iii) Protein	iv) Cytopl	asm
2. Identify the incorrect star	tement about ider	ntical twins.		
i) developed from a si	ngle zygote	ii) alwa	ys of the same sex	
iii) look alike in many	aspects	iv) differ in the	ir blood groups	
3. Some people can roll their downant character. It A child who can roll their	RR R	Non-roller = TX	all V1.	, COM
rollers. If both the pare	ents are rollers, th	ne genotypes of the	eir parents would b	oe
i) RR x RR	ii) Rr x Rr	iii) RR	x rr iv	) rr x rr
4. Which of the following is in	heritable?			
i) an altered gene in sp	oerm	ii) an altered ger	ne in liver cells	
iii) an altered gene in	skin cells iv) an	altered gene in uc	lder cells	
5. Bio technologically synthes	sized	is used to cure per	rnicious anaemia.	
i) Vitamin B12	ii) vitamin C	iii) Vitamin D	iv) vitamii	ı K
	SECTION	N –B		
<ul> <li>II. Answer any TEN question</li> <li>6. The inheritable characters</li> <li>Name the variation in the are varied as blue, black,</li> <li>i)This is called as</li> <li>The dentition in the ii) This is called as</li> <li>7. What are variations? Ment</li> <li>8. What are monoclonal antib</li> </ul>	s vary in different following cases brown, green, et variation.  rabbit and the e variation their types.	to. The eye colour act.  I dephant are not the action	among the human	

9. Find out who I am?				
i)I am organic and present in citrus fruits and I give immunity.				
ii)am the paste enzyme that joins segments of DNA.				
10. Find the unmatched pairs:				
Nif genes - Nitrogen Fixation				
tt - Alleles				
Bio-chips - Biological computer manufacturing				
Interferon - Antiproteins of Bacteria				
stem cells - Unspecialised mass of cells				
11. For the experimental research Dr.Ian Wilmut used the nucleus of the udder cell from six				
year old Finn Dorset white sheep and preserved the diploid nucleus (2n). Hetook an ovum				
from the ovary of another sheep. The haploid ovum was removed. The diploid nucleus of				
the udder cell was injected into the cytoplasm of the enucleated ovum. Then the diploid				
nucleus ovum was implanted into the uterus of the surrogate mother sheep. The diploid				
ovum developed into a young one, named "Dolly".				
i) Why did Wilmut select the udder cell?				
ii) Define the terms haploid and diploid.				
12. In dogs, the barking trait is dominant over the silent trait. Using Punnet Square work out the possible puppies born to two barking parents with genotype (Rr)				
13. Sequentially arrange the different species of man from primitive to modern man.				
(Neanderthal man, Homo habilis, Homo erectus, Homo sapiens)				
14. What is evolution?				
15. In persons suffering from insulin-dependent diabetes, the cells of pancreas				
are degenerated.				
i)Alpha ii) Beta iii) Gamma iv) Delta				
<b>16.</b> Here are certain important hereditary jargons. Fill in the blanks by choosing a				

suitable one from the list given. (allele, variation, speciation, gene, allelomorphs)

i)\_\_\_\_\_ are the factors which form the physical basis of inheritance

ii)\_\_\_\_\_ is the alternate forms of the same gene.

iii)\_\_\_\_\_ are the expressions of contrasting pair of alleles.

17. what is cloning?