# GOVT BOYS HR SEC SCHOOL, UTHIRAMERUR—603406.

Std:10	SCIENCE (Bio-L	:17-23) R	evision Test:4	Nov:2019.	Marks:50	Time:1.30 Hrs.
I .Choose the correct answer.						6X1=6
1.The e	ssential parts of	f a flower a	re			
a) C	alyx and Corolla	b) C	alyx and Andro	ecium		
-	orolla and Gynoe	•		•		
2.Male g	ametes in angiosp	perms are fo	rmed by the divis	ion of	· ·	X
a) G	enerative cell	b) V	egetative cell		A	
c) M	licrospore mothe	er cell d)	Microspore			
3.The nu	ımber of chromos	omes found	in human beings	are	·	
a) 22	2 pairs of autoso	mes and 1 <sub>J</sub>	pair of allosome	s. b) 22 a	utosomes and	d 1 allosome
,	autosomes			rs autosomes a	-	
4.DNA f	ingerprinting is ba	ased on the	principle of iden	tifying	sequences	s of DNA
a).sir	ngle stranded	b). mutated	l c) polymorpl	nic d). repet	itive	
5.Tobaco	co consumption is	known to st	imulate secretion	n of adrenaline.	The compone	ent causing this
could be	2					
a) Nicot	ine b) Tan	nic acid	c) Curcumin	d) Leptin		
6.Globa	l warming will cau	use				
a)ra	ise in level of oc	eans	b)melting of	glaciers		
c)sinking of islands			d)all of these			
II. Answer any 5 questions			(QNo: 8 is Compulsory)			5X2=10
7. Fill i	n the blanks					
i). A ca	apacity of 100 lit	res solar h	eater can save u	pto	units of electr	ricity per year.
. <b>ii) .</b> The	world's largest			situated in	<del></del>	
62	8.D	raw and Id	entify the parts			
6						
9. True	or False, if fals	se write th	e correct state	ment		
-	ar energy is a re					
•	kemia both WBC					
	t precautions can					
	the applications of	_				
	: do you understar	•		a genotype?		
13.Write	e a short note on	editor and	its types?			

**14.Assertion:** Hybrid is superior than either of its parents.

Reason: Hybrid vigour is lost upon inbreeding

- a. Assertion is correct and reason is wrong
- b. Reason is correct and the assertion is wrong
- c. Both assertion and reason is correct
- d. Both assertion and reason is wrong.

## III. Answer any 5 questions (Q No 16 is compulsory)

5X4=20

- 15. With a neat labelled diagram describe the parts of a typical angiospermic ovule.
- 16.Explain the Types of Chromosomes based on the position of Centromere
- 17. Why is Archaeopteryx considered to be a connecting link?
- 18. Match the following
  - a). Sonalika -- Phaseolus mungo
  - b) IR 8 -- Sugarcane
  - c). Saccharum -- Semi-dwarf wheat
  - d). Mung No. 1 -- Ground nut
  - e). TMV 2 -- Semi-dwarf Rice f). Insulin -- Bacillus thuringienesis
  - g). Bt toxin --Beta carotene
  - beta carotene
  - h).Golden rice first hormone produced using rDNA technique
- 19. Name any three foods that are to be avoided and included in the diet of a diabetic patient. Why should it be followed?
- 20. What are the advantages of using biogas?
- 21. How does rainwater harvesting structures recharge ground water?
- 22. How do you differentiate homologous organs from analogous organs?

### IV. Answer any two

2X7=14

- 23. i). State the importance of biofertiliser.
  - ii) .Suggest measures to overcome the problems of an alcoholic.

#### (OR)

- 24. How is the structure of DNA organised? What is the biological significance of DNA?
- 25. Write the events involved in the sexual reproduction of a flowering plant.
  - i). Discuss the first event and write the types.
  - ii).. Mention the advantages and the disadvantages of that event.
- iii). Why are the human testes located outside the abdominal cavity? Name the pouch in which  $\qquad \qquad \text{they are present} \, .$

(OR)

- 26. i). Organic farming is better than Green Revolution. Give reasons
  - ii) What precautions can be taken for preventing heart diseases?

#### **xxxOxxx**

#### VVR / Utr