## SRI BALAJI VIDHYALAYA MATRIC HIGHER SECONDARY SCHOOL

SUBJECT : SCIENCE CLASS-10	FULL PORTION TES	T TIME – 3 HRS MARK -75
I. Choose the correct answer.		12×1=12
1. 1 kilogram force equals to		
a) $9.8 \text{ dyne}$ b) $9.8 \times 10_4 \text{ N}$ c)	$98 \times 10_4 \text{ dyne}$ d) 980 dyne	
2. Charles's law is also called as		
a) the law of temperature b) the	-	
c) the law of volume d) the	_	
3. When a sound wave travels thro	-	
a) vibrate along the direction of the		
b) vibrate but not in any fixed dire		
c) vibrate perpendicular to the dire	ction of wave motion	
d) do not vibrate		
4. The atomicity of chlorine is		
a) 1 b) 4 c) 8 d) 2	anting agreed by	
5. Photolysis is a decomposition re	•	
a) heat b) electricity c) light		C. H. The share of the common of the
_		s $C_3$ $H_6$ . The class of the compound is
a) alkane b) alkene c) alkyne		
7. Dark reaction occurs in of	_	
a) stroma b) cristae c) matrix d		and
8. Which one of the following sour	rce correct composition of bi	ood
<ul><li>a) plasma - blood + lymphocyte</li><li>b) serum - blood + fibrinogen</li></ul>		
c) lymph - plasma + RBC + WBC	7	
d) blood - plasma +RBC + WB		
9 Is found abundantly in	-	
	ibberellin d) ethylene	
10. Oestrogen is secreted by	d) ethylene	
a) anterior pituitary b) primary	follicle	
c) Graafian follicle d) Corpus l		
11. The theory of natural selection		by
a) Charles Darwin b) Gregor		o y
	ptiste Lamarck	
12. Which type of cancer affects by	_	
a) carcinoma b) sarcoma c) leuk	-	
a) caremona o) sarcoma e) leak	deima d) lymphoma	
II. Answer any seven questions. Q. I	No 22 is compulsory.	7×2=14
13. What are the causes of myopia		
14. What is a longitudinal wave?		
15. What are called thermolysis re	action?	
16. Define - Corrosion.		
17. Name the simplest Ketone and	give its structural formula.	
18. Why should the light depender	_	ght independent reaction.
19. What is the importance of valv		-
20. Make the correct statement as.		
a) If both A and R are true and R i	s correct explanation of A.	
b) if both A and R are true but R i	-	of A
c) A is true and R is false	-	
d) Both A and R are false		
Assertion.(A) Pituitary gland is ref	erred as "Master gland".	

Reason. (R) It controls the functioning of other endocrine glands.

- 21. What are okazaki fragments?
- 22. The degenerated wing of a kiwi is an acquired character. Why is it an acquired character?

## III. Answer any seven questions. Question number 32 is compulsory.

 $7 \times 4 = 28$ 

- 23. a) Define One calorie.
  - b) State the law of volume.
- 24. Distinguish between the resistivity and conductivity of a conductor.
- 25. Give appropriate reasons for alloying.
- 26. a) What is aqueous and non-aqueous solution? Give an example.
  - b) Define the term Solution.
- 27. How is a cancer cell different from normal cell?
- 28. What is the importance of rain water harvesting?
- 29. What is Transpiration? Give an importance.
- 30. What are the effects of hybrid vigour in animals?
- 31. List out the functions of thyroid hormones.
- 32. 88 Ra <sup>226</sup> experiences three alpha decay. Find the number of neurons in the daughter element.

## IV. Answer all the questions. Draw diagram wherever necessary.

 $3 \times 7 = 21$ 

33. A. Describe rocket propulsion.

(Or)

- B. What is an echo? (i) State two conditions necessary for hearing an echo.
  - (ii) What are the medical applications of echo?
  - (iii) How can you calculate the speed of sound using echo?
- 34. A. (i) Calculate the number of water molecule present in one drop of water which weighs 0.18 g.
  - (ii) Find out atomicity of the following H<sub>2</sub>O, CH<sub>4</sub>
  - (iii) What is gram atomic mass?

(Or)

- B. How is ethanol manufactured from sugarcane.
- 35. A. What are the phases of menstrual cycle? Indicate the changes in the ovary and uterus.

(Or)

B. Explain the structure of a chromosome.