P.A.K.PALANISAMY HIGHER SECONDARY SCHOOL PRE REVISION EXAMINATION - II

Std: X

20. Answer in a word:-

SCIENCE PART - I Time: 3 hours Marks: 75 12X1=12

1. Choose the correct answer:- 1. Temperature is the average of the molecules of a substance a) difference in K.E and P.E d) difference in K.E and T.E				e) difference in T.E and P.E	
2. Kilowatt hour is the u	mit of	ity	electrical energy	d) electrical pov	ver
3. The ratio of the poten	tial difference esistivity	c) conductan		ectric power	
4group contains the member of halogen family. a) 17th b) 15th c) 18th 5is an important metal to form amalgam c) Mg				d) 16 th	
				d) Al	
6. Which of the following is the universal solvent. b) Benzene c) water				c) alcohol	
7. During transpiration there is loss of a) carbon dioxide b) oxygen c) water				c) none of above	
8. The wall of human heart is made up of a) Endocardium b) Epicardium c) myocardium 9. Which one of the following hormones is naturally not found in plant				d) all of the above	
9. Which one of the followar) 2,4-D	wing hormone b) GA3	es is naturally c) Gib	berallin	d) IAA	Y
10. Which one is referred	d as "Master g	land"? uitary gland	c)thyroid gland	d) adrenal gla	nd
11. Estrogen is secreted by				d) spermatogonia	
a) helicase	b) DNA polyi	nerase	c) RNA primer	d) DNA ligase	2
		PART	<u>- II</u>		
nswer any 7 questions: (Q. No. 15 is Compulsory)				*	7x2=14
3. Define one calorie 4. State ohm's law					
5. Calculate the current of 6. Fill in	a 100w, 200v	electric bulb	in a electric circuit.		
a) but is the longer b) The scientist who					
17. What is non-aqueous so	olution? Give a	n example.			
18. Match the following:-					
1. Blue Vitriol		. 2H ₂ 0 /			
2. Gypsum	- CaO	- THE			
3. Deliquescence 4. Hygroscopic	- CusO	4.5H20 ∽ I			
19. Why is sinoartial node			art?		

a) Which hormone is secreted during emergency situation in man?

b) Which hormone is known as time messenger?

- 21. State whether the following statements are true or false correct false statement.

 - a) Stalk of ovule is called pedicle b) seeds are the product of asexual reproduction.
- 22. What do you mean by phenotype and Genotype?

PART - III

Answer any 7 questions: (Q.No. 24 is Compulsory)

- 24 An electric iron consumes energy at the rate of 420W, When heating is at the maximum rate.

 180W When heating is at the minimum rate. The applied voltage is 220V. What is the current in each 23. Distinguish between ideal gas and real gas. case?
- 25. a) What is rust?
 - b) Give the equation for formation of rust.
 - c) State two conditions necessary for rusting of iron.
- 26. a) What happens when MgSo4 is heated.
 - b) Write the appropriate equation.
- 27. Give the importance of transpiration (any four points)
- 28. Enumerate any four functions of blood.
- 29. Write any four physiological effects of gibberellins. Su 42 E 1 F1 by F1
- 30. a) Identify the parts A,B,C, D,
 - b) What are the four phases of menstrual cycle?



- 31. a) What are Okazaki fragments?
- 32. A pure tall plant (TT) is crossed with pure dwarf plant (tt). What would be the F1 and F2 generations. b) Draw the structure of a chromosome. Explain.

PART - IV

Answer all in details

3x7 = 21

7x4 = 28

33., a) State the fundamental laws of gases.

(or)

- b) (i) What is meant by electric current?

 - (iii) Which instrument is used to measure electric currents? How should it be connected in a circuit?
- 34. a) Write the physical properties of metal

(or)

- (i) Write notes on saturated solution and unsaturated solution.
 - (ii) In what way hygroscopic substances differ from deliquescent substances?
- 35. a) Why are leucocytes classified as granulocytes and granulocytes? Name each cell and mention its functions.
 - b) How is the structure of DNA organized? What is the biological significance of DNA?