HYM

HALF YEARLY EXAMINATION - 2024

10 - Std

SCIENCE

			1	1
	Ma	rk	S:	75

Time: 3.00hrs.

Note : i) Answer all the Questions

17. Write the dental formula of rabbit.

PART - I

	Note it if it is			12 V 1 - 12				
I	CHOOSE THE C	ORRECT ANSWI	ER.	12 X 1 = 12				
1.	Inertia of body d	epends on						
a) Weight of the object c) mass of the object			b) acceleration due to gravity of the plant					
			c) Both a & b					
2.	One horse power	r (hp) =	_ Watt.					
	a) 764	b) 746	c) 647	d) 674				
3.	iso	tope is used for t	a - u Miskal					
	a) Radio Iodine	b) Radio Cobalt	c) Radio Carbon	d) Radio Nickel				
4.	gro	up contains the n	nember of halogen family.					
	a) 17th	b) 15 th	c) 18 th	d) 16				
5.	The number of	components in a l	oinary solution is					
	a) 2	b) 3	c) 4	d) 5				
6.	Which is the fur	ntional group of al	dehyde?					
	a) -OH	b) - CO -	c) - CHO	d) - COOH				
7.	Kreb's cycle take	es place in						
	a) Chloroplast	b) Mitochondria	al Matrix					
	c)Stomata	d) inner mitoch	iondrial membrane					
8.	The part of the root that absorbs water from the soil is							
	a) root hair	b) cortex	c) pericycle	d) endoderm				
9.	ic	a major conducting	ng centre for the brain.					
	a) Thalamus	b) Pons	c) Cerebellum	d) Hypothalamus				
10.	Which is known as plant's stress hormone?							
	a) Auxins	b) Abscisic acid	c) Ethylene	d) Gibberellins				
11.	Himairi is disea:	se resistance varie	ety of					
	a) Sugarcane	b) Paddy	c) Cow pea	d) Wheat				
12.	World "No Toba	cco Day" is obser	ved on					
	a) May 31	b) June 6	c) April 22	d) July 6				
			PART - II					
	ANGWED ANY	SEVEN OUESTI	ONS : O.No. 22 IS COME	PULSORY. $7 \times 2 = 1$				
II	ANSWER ANY SEVEN QUESTIONS: Q.No. 22 IS COMPULSORY. 7 X 2 = 1 Why does the sky appears in blue colour?							
13.								
14.	State Boyle's Law.							
15.		State True or False. If false give the correct statement. i) The volume occupied by 1 mole of a diatomic gas at S.T.P. is 2.24 litre.						
-			e or a diatornic gas at 3.1.1	. 13 2.27 11.10.				
	ii) Molar mass o		reactin increase on raising	the town				
16	Why does the r	eaction rate of a	reactin increase on raising	the temperature?				

b) Chromium Respiratory System c) Cadmium Nervous System d) Mercury Kidney and Liver 21. What is Sprite? 22. Find the amount of urea which is to be dissolved in water to get 500g of 10% w/w aqueous solution. PART - III III ANSWER ANY SEVEN QUESTIONS : Q.No. 22 IS COMPULSORY. 7 X 4 = 28 23. What are the types of inertia? Give an example for each type. 24. Differentiate natural and artificial radio activity. 25. a) Define atomicity. b) Define Hydrated Salt. 26. What is called homologous series? Give any three of its characterisitcs? 27. a) What is collateral vascular bundle? b) Draw the structure of chloroplast and label its parts. 28. a) Define reflex arc. b) Draw and label the human sperm cell. 29. Enumerate the function of blood. 30. Define Ethnobotany and write its importance. 31. Enumerate the importance of forest. 32. a) Calculate the velocity of a moving body of mass 5Kg whose linear momentum is 2.5 Kg ms-1. b) Calculate the amout of energy released when a radio active substance undergoes fusion and results in a mass defect of 2 Kg. PART - IV IV ANSWER ALL THE QUESTIONS. $3 \times 7 = 21$ 33. a) Differentiate the eye defect Myopia and Hypermetropia. b) Define electrical resistivity. (OR) a) What are the factors that affect the speed sound in gases. b) Complete the equation i) α decay $_{92}$ U²³⁸ -----> ____ + ___ ii) β decay $_{15}$ P³² -----> ____ + ___ 34. a) Give salient features of modern atomic theory (Any Five) b) What is Amalgam. (OR) Explain the factors influencing the rate of a reaction. 35. Explain with an example the inheritance of dihybrid cross. a) What are the effects of hybrid vigour in animals (Any Three) b) What precautions can be taken for preventing heart diseases? HYM 10 SCIENCE PAGE - 2

18. Why are thyroid hormones refered as personality hormone?19. Why is Archaeopteryx considered to be a connecting link?

Health Effects

Asthmatic Bronchitis

20. Match the following E- Waste

a) Lead