	-	^
ass		fl
 2 5 5	200	.,
LUUU		$\mathbf{}$

		_		
Register	73.1	 247	Line and Miles	100
Number	1 10			1.7 - 5

	FIRST REVISION EXAL			KI - ZUZ3		
Tim	e Allowed . 5.00 Hours	CIENC	E	[Max	. Marks: 75	
		PART - I				
l.	Answer all the questions: akwaacade	emy.bio	ogspot.com		12x1=12	
1. If the earth shriniks to 50% of its real radius its mass remaining the same weight of						
	the earth will.					
	a) decrease by 50% b) increase by 5	50% c)	decrease by 25%	d) increase t	by 300%	
2.						
	a) resistivity b) conductivity	c)	electrical energy	d) electrical	power	
3.	Power of a lens is -4D, then its foca length	n is				
	a) 4 m b) -40 m		- 0.25 m	d) -2.5 m		
4.	Which of the following represents 1 amu?	and the same				
	a) mass of a C-12 atom		mass of a hydrog	en atom		
	c) 1/12th of the mass of a C-12 atom	d)	mass of 0-16 ator	n.		
5.	group contains the member fo halog					
	a) 17 th b) 15 th		18 th	d) 16 th		
6.	TEM in soaps represents content	in soap				
	a) mineral b) vitamin		fatty acid	d) carbotydr	ates	
7.	Which is formed during anaerbic respiration	on.				
	a) Carbohydrate b) ethyl alcohol		Acetyl CoA	d) Pyruvate		
8.	A patient with blood group was injured in				up of blood	
	should be used by a doctor, for transfusion					
	a) O group b) AB group		A or B group	d) All blood	groups	
9.	According to mendel alleles hane the follow					
	a) Pair of genes		Responsible for cl	haracter		
	c) Production of gametes	d)	Recessive factors			
10.	Birds have evolved from mammals. (True	or false	e).			
	DNA fingerprinting is based on the priniple	5/		ence of DNA.		
	a) Single stranded b) Mutated					
12.	Commen energy source in village is					
-	a) electricity	b)	coal		*	
	c) biogas		wood and animal	duna		
	1	PART - II	the street it,			
11.	Answer any seven questions. Q.No. 2	2 is con	npulsory.		7x2=14	
	What is power of accommodation of eye?					
	What is the role of the earth wire in dome		iits?			
	Match:		The state of the s			
	a) Co - 60 - (i) Age of fossil					
	b) I - 131 - (ii) Function of H		Land State of the Control of the Con		. 12. 14	
	c) Na - 24 - (iii) leukemia	17.21				
	d) C - 14 - (iv) Thyroid disea	ase				
16	Fill in					
. 10.	i) The chief ore of Aluminium is					
	ii) Iron is chiefly extracted from	OFA				
	ii) iion is chieny extracted iron	OIG.				

- 17. What are the factors influencing the rate of a reaction?
- 18. How is diastema formed in rabbit?
- 19. Define reflex arc?
- 20. Why are thyroid hormones refered as personality hormone?
- 21. What are transgenic organisms?
- 22. Give the structural formula for
 - (i) Cyclobutane
- (ii) Benzene

PART - III

III. Answer any seven questions .Q.No: 32 is compulsory.

7x4 = 28

- 23. Explain the types of inertia with examples.
- 24. i) What is co efficient of cubical expansion?
 - b) State Boyle's law. akwaacademy.blogspot.com
- 25. Distinguish between sound waves and light waves.
- 26. State any four postulates of modern atomic theory.
- 27. (i) What is aqueous and non aqueous solution? Give and example.
 - (ii) The aquatic animals live more in cold region.
- 28. Differentiate soaps and Detergents.
- 29. Explain the male reproducture system of rabbit with a labelled diagram.
- 30. a) What is the need of contraception?
 - b) What is colostrum?
- 31. Mention the importance of Ethnobotany.
- 32. P is a gene required for the synthesis of vitamin A. It is integrated with genome of Q to produce genetically modified plant 'R'.
 - (i) What is P Q and R
 - (ii) State the importance of 'R' in India.

PART- IV

IV. Answer all the questions in detail.

3x7=21

- 33. a) (i) State Joule's law of heating
 - (ii) An alloy of nickel and chromium is used as the heating element. Why?
 - (iii) How does a fuse wire protect eletricial appliances.

(OR)

- b) What is nuclear reactor? Explain its essential parts with their functions.
- 34. a) (i) Give any 4 features of 'Modern atomic theory'.
 - (ii) Calculate the number of moles in
 - (a) 27g of Al (b) 1.51x10²³ moleales of NH₄ Cl

(OR)

- b) (i) What are called thermolysis reactions?
 - (ii) Differentiate hygroscopic and deliquescent substances?
- 35. a) (i) Explain the structure of chromosome?
 - (ii) Regular physical exercise is advisable for normal functioning of human body. What are the advantages of practicing exercise?

(OR)

- b) (i) Define the following:
 - (a) Addiction (b) Drug dependence
 - (ii) What is the importance of rain water harvesting?