(4)

Note: Attempt any THREE questions. All questions carry equal marks. Find out formula mess of NPLH-PO, in a.m.u and also express it into grams? Draw the atomic structure of: 236 U 15 CL 14 C and 12 C. Q.13 (a) Which group is known as Boron family in periodic table? Write the names of elements present in this group? What is the role of electronegativity in the formation of bonds? (a) Calculate the initial pressure of a sample of gas that is changed from 7.55dm2 to Q.14 14.3dm3 at 300 mm of Hg. (b) Differentiate between saturated and super saturated solution with the help of (4) example. What is the purpose of sodium vapour lamp and desulphurization? (3) Q.15

What are three main components of dry cell?

Q.1

0.2

Q.3

Q.4

Q.5

0.8

0.7

0.8

Q.9

Q.11

(0)

Alcohol in Water

Mercury Amaigam

Sterling Silver

Time	e: 15 Min SE	CTION-A CMarks: 12
1)	The number of protons is	n chlorine atom is:
2)	The relative atomic mass	of oxygen atom is:
	● 15.998 amu	. 016.998 amu
	O 14.998 amu	○ 17.998 amu
3)	The f-subshell can accom	nmodate a maximum of:
	• 14 electrons	○ 10 electrons
	O 06 electrons	
4)		s contains incomplete s-subshell?
		I-A Group III-A Group IV-A
5)		ule. How many electrons are in its
	valance shell:	
7		3 04
6)		elements will form ionic borid;
_		a Caland Cl Cl and C
7)	Mobility of particles in so	alid, liquid and gas depends on:
	• Kinetic energy	Diffusion
	Density	Volume
8)		ger amount in a solution is called;
0)		Solution Solvent
3)		down at bottom on standing for some
	time:	No. 11 to 12
10)		Colloids Suspension
101		acts as oxidizing agent in the given
	reaction? Br ₂ + H ₂ S \rightarrow 2H	
	● Br ₂ ○ H	
	Reduction of alkali metal	
	O Anode O Walls of cell	O Battery Cathode
12)	Elements above calcium	in IIA of periodic table with symbol
	and atomic number is:	UN MAN
	O Na=11 Mg=12	C=13 ON=14
	Wanga	

1)	Tune of all William Sections A Colomarks: 12
71	the state of the s
	Gadgiter cents:
21	Mitoses Meiosis Meiosis-I Anaphase-I
2)	in the presence of enzymes, chemical reactions proceed at a
	Slower rate
-1	Constant rate Medium rate
3)	thon
	the products will be;
	○ AMP+Pi+7.3Kcal ● ADP+Pi+7.3Kcal
	OATP+Pi+7.3Kcal OADP+7.3Kcal
4)	Very intense light is:
	O Useful for chlorophyll Increase photosynthesis
	Uamages chlorophyll Help chlorophyll formation
5)	which of the given vitamin is needed for the growth and repair
	or non's tizznezi.
	Vitamin A Vitamin B Vitamin C OVitamin D
6)	Lungs are responsible for adding oxygen to the deoxygenated
	Groot triat triey receive from the contract of
	O Hepatic artery Renal artery
	Coronary artery Pulmonary artery Pulmonary artery
7)	The study of form, shapes and structure of organisms is;
	Morphology Anatomy Histology Physiology
8)	Collected data is analyzed by using;
	O Biological method Statistical method
	O Mathematical method O Ecological method
9)	Which of the given is an example of Protista?
	O Penicillium O Mosses O Smut Euglena
10)	Mathias Schleiden claimed that;
	O Nucleus is spherical body in plant cell
	O All plants are made up of cells
	All living organisms are made of cellular tissues
	Every cell comes from a cell
11)	Which substance is present in higher concentration of the
	is present in figher concentration after the
	0-8910100
fe	ood is digested in small intestine? Glucose Oz Glycogen
	Glucose Q2 OCO2 OGlycogen
) Ir	which of the given phase, neurons cells remain for indefinite
	eriod of time?
	G 1-Phase G 2-Phase G 0-Phase G-Phase

SECTION-B

Q2: Attempt any EIGHT parts. Each part carries FOUR marks.

1) Give correct sequence of biological organization?

Write the names of two mammals and two fish species which are over hunted in Pakistan?

3) Briefly explain smooth endoplasmic reticulum?

- 4) Briefly write the structure and function of fibrous connective tissue?
- 5) Explain the role of mitosis in growth of organism with an example?

6) Define necrosis. How it causes inflammation?

- 7) Briefly explain activators. Give TWO examples as well?
- 8) Define electron transport chain in aerobic respiration.

9) Write the components of saliva and gastric juice.

10) How does the high and low solute concentration in stemata affect the rate of transpiration?

11) Define the "Dubb" sound produced in the heart emphasizing on the opening and closing of different valves.

SECTION-C Marks: 24

Note: Attempt any THREE questions. All questions carry equal marks.

- Q3: (a) Ratio and proportion are used in solving biological problems. Briefly explain.
 - (b) Define classification. Write the taxonomic hierarchy of man (human being).
- Q4: (a) What is cytoplasm? Write down its TWO functions.

(b) List THREE events that occur in anaphase-1.

Q5: (a) Explain induced fit model with the help of diagram.

(b) Explain the role of chlorophyll in photosynthesis.

Q6: (a) Write causes and symptoms of Anaemia.

(b) Write down the steps of translocation of food in plants.

Ans	wer any EIGHT parts. Each part carries FOUR marks.		
Q.1	How many grams are present in 4 moles of Potassium and 3 moles oaf Magnesium?		
Q.2	Salar did by Abortand's stomic model need to be replaced?		
Q.3	alkali and alkaline earth metals with reference to their location in periodic table.		
Q.4	Which rule is followed by Oxygen and Helium to complete their valence shall also will also willi	y do so	
Q.5	With the bein of dot cross structure show the formation of Crt4 and 1973.		
Q.6	in the second state of the second sec		
6.0	The temperature is raised to 52°C. Calculate new volume of Halium.		
Q.7	Identify the types of solution in the following examples:		
WI.1			
	(i) Alcohol in Water (ii) Sterling Silver		
	(iii) Mercury Amalgam		
	(lv) Hydrogen gas absorbed at Palladium		
Q.8	What molarity to KNO, needed to make from 2 molar solution from 0.1 molar in 500mi.		
Q.9	Write chemical reaction for ionization of Brine. Also write overall reaction when electro	des	
	are connected to battery in Nelson's Cell.		
Q.10	Explain the chamical reaction of electroplating. 0.077	600	
Q.11	0 001	UIN	
	(b) What do you know about Nobel metals?		
		rks: 21	
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		
Note:	Attempt any THREE questions. All questions carry equal marks.		
Q.12	(a) Find out formula mass of NH4H2PO4 in a.m.u and also express it into grams?	(3)	
	(b) Pray the stornic structure of: 235 U, 35 Cl 14 C and 12 C.	(4)	
		(3)	
Q.13	(a) Which group is known as Boron family in periodic table? Write the names of	(-)	
	elements present in this group?	(4)	
	(b) What is the role of electronegativity in the formation of bonds?		
2.14	(a) Calculate the initial pressure of a sample of gas that is changed from 7.55dm³ to 14.3dm³ at 300 mm of Hg.	(3)	
	(b) Differentiate between saturated and super saturated solution with the help of example.	(4)	
2.15	(a) What is the purpose of sodium vapour lamp and desulphurization?	(3)	
	(b) What are three main components of dry cell?	(4)	
	(a) This do and them compensation of all the contract of the c	250	