KARNAL SHER KHAN CADET COLLEGE SWABI

CODE NO.

Not for Candidate

Invigilator Sign: _____

ENTRY TEST FOR CLASS – 11th 2023-24

Roll Number (In Figures): _____ Date: _____Apr 2023

Name: _____ Paper/Subject: **CHEM & PHY**

Father's Name: _____ Exam Center: KSKCCS

KARNAL SHER KHAN CADET COLLEGE SWABI

CODE NO.

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PAPER: CHEM & PHY

Maximum Marks: 50

Time: 60 Minutes

Q.NO	CHEMISTRY					O.M (50)	PHYSICS					O.M (50)	Sign of Scrut
	1	2	3	4	5		1	2	3	4	5		
Marks													
Signature of Checkers													

INSTURCTIONS

1. **Use ball point only.**
2. Write Roll Number, name and center in the above mentioned spaces on the answer book.
3. Writing Roll number or any suspicious mark, sign etc on answer book will lead to the cancellation of paper.
4. Deposit the answer book to the Supervisor before leaving the exam Hall.
5. No part of this answer book is to be torn out.
6. Electronic dictionary, mobile phones are strictly prohibited inside the hall.
7. Sharing of calculators or any other materials are not allowed during the paper.
8. No overwriting, cutting, or use of ink remover is allowed.

DO NOT WRITE ON THIS PORTION

PAPER – CHEMISTRY

Q-1: Choose the correct option. **Marks: 20**

(i) Which of the following is not a molecule?

(a) Co_2 (b) H_2O (c) NaCl (d) CH_4

(ii) Which one of the following is oxidizing agent?

(a) F (b) Na (c) Ca (d) Al

(iii) The example of weak Acid is _____.

(a) HCl (b) CH_3COOH (c) HNO_3 (d) H_2So_4

(iv) Which of the following is least reactive?

(a) Propane (b) Ethene (c) Ethyne (d) Propyne

(v) Night blindness is a disease which is caused due to the deficiency f:

(a) Vitamin D (b) Vitamin C (c) Vitamin E (d) Vitamin A

(vi) Which of the following is reducing agent?

(a) F (b) O (c) Na^{+1} (d) Na

(vii) How many covalent bonds are present in carbon dioxide?

(a) 02 (b) 03 (c) 04 (d) 01

(viii) Which of the following is inorganic compound?

(a) $C_6H_{12}O_6$ (b) $NaHCo_3$ (c) CH_3oH (d) CH_3CooH

(ix) All of the following are saturated compound except:

(a) C_3H_8 (b) CH_3OH (c) C_2H_4 (d) $CH_3 – O – CH_7$

(x) Cellulose is an example of _____.

(a) Fats (b) Nucleic Acid (c) Protein (d) Carbohydrate

(xi) Which of the following is ionic compound?

(a) HCl (b) H_2O (c) NaCl (d) CH_4

(xii) Which one of the following is metal?

(a) F (b) Na (c) Ca (d) Both B & C

(xiii) The example of weak Acid is _____.

(a) HCl (b) CH_3COOH (c) HNO_3 (d) H_2So_4

(xiv) Which of the following is Saturated Hydrocarbon?

(a) Propane (b) Ethene (c) Ethyne (d) Propyne

(xv) Night blindness is a disease which is caused due to the deficiency f:

(a) Vitamin D (b) Vitamin C (c) Vitamin E (d) Vitamin A

(xvi) Electrons in its ground state does not
(a) Spin (b) Revolve (c) Radiate energy (d) Reside in orbit

(xvii) L shell has sub shell
(a) S (b) S and p (c) S, p and d (d) S, p, d and f

(xviii) Which of the following element is in the same family as fluorine?
(a) Silicon (b) Antimony (c) Iodine (d) Arsenic

(xix) Shielding effect is due to
(a) neutron (b) Proton (c) Proton and neutron (d) Electron

(xx) Spontaneous mixing of particles is called:
(a) evaporation (b) sublimation (c) diffusion (d) boiling

Q–2: Fill in the blanks with suitable words and formulas. **Marks: 10**

i. The unsaturated Hydrocarbon are identified by a test known as _____ test.

ii. The molecular mass of glucose is _____.

iii. The dielectric constant of water at 18C° is _____.

iv. The functional group of Ether is _____.

v. The chemical formula of potash alum is _____.

vi. Triglyceride is the building blocks of _____.

vii. The PH of Acid rain is less than _____.

viii. Water gas is mixture of carbon monoxide and _____.

ix. The raw material used for the preparation of ammonia are carbon dioxide and _____.

x. An element have the valency x^{+2}. So it belongs to ____ group in periodic table.

Note: Attempt any three (3) questions. **(Marks: 20)**

Q-3: Explain the Acid and Base according to the Lewis concept.

Ans: _____

_____

_____

_____

_____

_____

_____

_____

Q-4: Define functional group and write the functional group of.

(a) Alcohol (b) ketone (c) Amine (d) Ether

Ans:

Q-5: Write the equation for the preparation of Ethene from Ethyle Alcohol and Ethyl Chloride.

Ans:

Q-6: How many moles of H_2So_4 are present in 0.500 dm^3 of 0.150 M H_2So_4 solution.

Ans:

PAPER – PHYSICS

Q-1: Choose the correct option. **Marks: 20**

i. Kitab ul Manazir is the name of book written by?

(a) Yaqub Kindi (b) Ibnal Haitham (c) Al beruni (d) None

ii. The unit used for pressure in weather maps is _____.

(a) Atm (b) Pa (c) Bar (d) N/m

iii. In Newton's third law the action reaction pair does not neutralize each other, because they

(a) Act on same body (b) Act on different bodies (c) Act on third body (d) Produce friction

iv. CM is different from CG, when we have non uniform

(a) Shape of object (b) Mass of object (c) Gravitational force (d) None of these

v. The value of 'g' _____ with altitude.

(a)Increases (b) Decreases (c) Gets ZERO (d) remains the same

vi. When a body is moved from sea level to the top of a mountain, there is change in the bodies?

(a)Mass (b) Weight (c) None (d) Both mass and weight

vii. KWh is unit for _____.

(a) Energy (b) Power (c) Efficiency (d) None

viii. 1 hp= _____.

(a) 476 W (b) 550 W (c) 746 W (d) 1 ft.Ib/s

ix. Hira weighing 500 N takes 90 s to reach the top of a hill 18 m high. Her average muscle power is:

(a) 2500 W (b) 100 W (c) 32.8W (d) 3.24 W

x. Which of the following cannot be used to measure pressure

(a) Atm (b) Pa (c) Bar (d) Kg/m^3

xi. The time period of mass attached to a spring will, if the mass of the object reduce four (4) times.

(a) Increase (b) decrease (c) remain same (d) increases and then decrease

xii. The speed of sound will be, if the temperature is 40Ċ?

(a) 335m/s (b) 355m/s (c) 533m/s (d) 535m/s

xiii. Sound due to multiple reflection is known as.

(a) Echo (b) Reverberation (c) Noise (d) magnet

xiv. Which of the following represent one ohm?

(a) VA^{-1} (b) JS^{-1} (c) WA^{-1} (d) JC^{-1}

xv. Kilowatt- hour is equal to_____

(a) 3600 W (b) 1000J (c) 3.6 x10^6 J (d) 0.36N

xvi. Thermistor is____device

(a) Ohmic (b) Non-Ohmic (c) Both A and B (d) none

xvii. If the length and area of the Wire become double the resistance of the wire:

(a) Increase (b) Remain same (c) decrease (d) Infinite

xviii. Kilowatt- hour is unit of:

(a) Mass (b) Force (c) Energy (d) Power

xix. 1 horsepower is equal to:

(a) 750W (b) 720W (c) 742W (d) 746W

xx. Unit of Electromotive force:

(a) Tesla (b) Ohm (c) Joule (d) Volt

Q–2: Fill in the blanks with suitable words and formulas. **Marks: 10**

(i) The unit of Gravitational constant is _____.

(ii) The sound whose frequency is greater than the 20 HZ called _____.

(iii) Speed is the magnitude of _____.

(iv) The unit of the acceleration is _____.

(v) The minimum distance required for an echo to be heard is _____.

(vi) The types of mirror are _____.

(vii) The unit of capacitance is _____.

(viii) The work done on unit positive charge against electric field is called _____.

(ix) The unit of conversational current is _____.

(x) The ability of a body to do work is called _____.

Note: Attempt any three (3) questions. **(Marks: 20)**

Q-3: What is the difference between mass and weight?

Ans: _____

_____

_____

_____

_____

_____

_____

_____

Q-4: Define the following:

(a) Momentum (b) Resistance (c) Current (d) Torque (e) Dynamics

Ans:

Q-5: Show that simple pendulum motion is SHM.

Ans:

Q-6: Calculate the resistance of a wire when the current through it is 2A and the voltage across its ends is 3V.

Ans: