

R.E.D. Group of Schools Summer Holidays Homework Framework SESSION: 2023-24

CLASS – 11th Subject: English

Text Book: - N.C.E.R.T. (Hornbill, Snapshot) and BBC Compacta

1. Syllabus Covered up to MAY END

Book: Hornbill

- o Chapter No.-1 Chapter Name- The Portrait of a Lady
- Chapter No.- 2 Chapter Name- We are not Afraid to Die
- o Poem No.- 1 Poem Name- A Photograph
- Poem No.-2 Poem Name- The Laburnum Top

Book: Snapshots

o Chapter No.- 1Chapter Name- The Summer of the Beautiful White Horse

2. List of all new concepts taught up to MAY END (Writing Skills)

- Reading Comprehension
- o Note Making and Summarization
- o Advertisements
- Speech Writing

3. Tools required for doing Homework:

- Reader Book
- Notebook
- Scrap Book
- Resources as per activity

4. Date of Submission of Homework: 3rd July, 2023

5. Formative Assessment based Homework:

o Section-A-Reading and Vocabulary Homework

≻ Each student will read –

Fictional work: The Centerville Ghost written by Oscar Wilde and

Non-fiction: The Diary of a Young Girl by Anne Frank

Write review of both the works separately using the following steps

Note: - Do the following homework in scrap book

- ✓ Draw creative page as front page
- \checkmark Identify and list the Main characters in the story
- \checkmark Write the summary of the story as follows :—
 - ✤ Beginning
 - Middle
 - End
- \checkmark Write your favourite part of the story
- ✓ Mention anything you disliked about the story
- ✓ Story rating out of 5 and why
- \checkmark If you were the author how will you end the story
- 2. Read any English newspaper once in a week and find out 5 new words from it & frame a sentence from it and present them in the same scrap book

Vocabulary Homework

Make your own dictionary.(Each student will learn 3 new words daily with meanings and write the words in dictionary)

Total 45 words should be included in your dictionary

• Section-B- Speaking Homework

- 1. Students will practice on one of the given topics: -
- Benefits and challenges of living in a joint family.
 OR
- Build a conversation of eight to ten sets of exchange, with your grandmother discussing the incidents that happened in your school that day.

OR

- Every member contributes to form a happy family. Share your views for a minute or two Students will prepare speaking activity video on any one of the above topics and share with English teachers on WhatsApp group
- Section-C-Creative Writing Homework

<u>Creative Writing Homework</u> (Do any two creative writing topic)

> Travelogue writing:

There are many tourist attractions. They are popular for many reasons. Some places are popular for their natural beauty whereas others are for their historical and religious importance. Write the names of the places that you would like to visit in our country: Naturally beautiful places, places of historical and religious importance. Have you ever visited such places on your holidays? Write down the places you have visited so far. Write detailed description of a visited place in the form of a paragraph.

- Character portrait/ sketch writing of your favorite character from the movie "A Little Dream" on A4 size sheet.
- > **Review writing :**

Discuss and explain the movie 'The Jungle Book' with the help of the following points.

- Classic element.
- Fantasy.
- Photorealism
- Blending of emotions
- Section-D- Learning and Pre reading Homework
 - 1. **Pre reading** Snapshot (Ch-2 The Address), Hornbill (Ch-3 Discovering Tut: The Saga Continues)
 - > Learning Ch 1 The Portrait of a Lady, Ch 2 We are not Afraid to Die

Poem 1 A Photograph, Poem 2 The Laburnum Top

Ch. 1, The Summer of the Beautiful White Horse

• Section-E- Project work

Prepare a student portfolio and include the following details: -

- Personal details
- > What I understand by portfolio
- > My goals/ Aim in life for future
- > My achievements till now
- > The areas I need to work to achieve my goal

Following projects can be given for Grammar Topic covered in the month of April and May:-

2. 12 tenses formula with examples

OR

Verb project chart

OR

Parts of speech and application

3. Grammar flip book with Transformation of Sentences (Narration/Voice)

OR

Draw your favorite fiction-character from any one work of the writer Ruskin Bond and describe it

using 10 adjectives.



Summer Holidays Homework

SESSION: 2023-24

 $CLASS - 11^{th}$

Text Book: S. L. Arora, NCERT

Subject: PHYSICS

1. Syllabus Covered upto MAY END

- Chapter No.- 0 Chapter name Mathematical tool
- Chapter No.- 2 Chapter Name Unit and measurement
- Chapter No.- 3 Chapter Name Motion in straight line
- Chapter No.- 4 Chapter Name Motion in Plane

2. List of all new concepts taught upto MAY END

- o Concept of unit and dimensional formula
- o Concept of scalar quantity, vector quantity and there algebra
- o Concept of uniform motion and non uniform motion
- Motion of partical in a plane

3. Formative Assessment based Homework:

- Section-A-Creative Project/ Working model/ Inquiry based project.
- Section-B-Diagram and Labeling assessment activity.
- Section-C-Experiment based activity.
- Section-D- Derivations.
- 4. <u>Summative Assessment based Homework:</u> • Section-E- Chapter-wise Assignments

Section-E- Chapter-wise Assignment Tools required for doing Homowork;

- 5. <u>Tools required for doing Homework:</u>
 - NCERT Text Book, S.L. Arora book

• A₄Sheets, Internet

o Notebook

- Resources as per activity
- 6. Instruction/Guidelines for Formative Assessment based Homework:

• Section-A-Creative Project/ Working model/ Inquiry based project.

<u>Topic</u>	<u>Roll No.</u>
To Make A Simple Newton's Cradle	1 to 10
To make a balancing scale	11 to 20
To make a Balloon hovercraft	21 to 30
To make a electro magnetic	31 to 40

I (Roll no 1 to 10) Topic: To To Make A Simple Newton's Cradle

Materials Required: Jumbo Craft Sticks, (6) Marbles, String, Scissors, Glue, Tape, Pencil Hot Glue Gun/Glue

Steps to prepare:

- Glue (4) craft sticks together at the corners to make a square. Repeat with (4) more crafts sticks. Let dry. These will be the sides of the frame.
- Cut string into (6) equal pieces approximately 8" longHot glue a marble to the center of one of the pieces of string. Repeat to end up with (6) separate marbles, each glued to the center of a string.
- Make (6) marks along two craft sticks every ½". Make sure the marks are centered on the sticks. Tape one end of the strings with marbles attached along one of the craft sticks at each mark. Set aside.

II (Roll no 11 to 20) Topic: To make a balancing scale

Materials required: two identical paper plates, string, pencil, tape, glue, a pair of scissors, and a cloth hanger. Punch three holes in both the paper plates. Make sure the holes are close to the outer boundary of the plates

Steps to prepare:-

- Out six pieces of string that are equal in length. The length of each string should be approximately equal to 2 ft.
- Attach one end of each string to the individual holes punched in the plates. Hold one of the paper plates and take the three strings attached to the holes grooved into it. Properly stretch the strings and tie them

together in a single knot. Perform the same procedure with the other plate.

III (Roll no 21 to 30) Topic :- To make a Balloon hovercraft

Material Required :- CD/DVD, a bottle cap, a balloon, glue or tape, and a pair of scissors. Steps to prepare:-

- Groove a small hole right in the middle of the bottle cap. The diameter of the hole should be approximately equal to the diameter of a regular plastic straw.
- Stick the bottle cap in the centre of the CD/DVD with the help of glue or tape. Inflate the balloon, pinch it from the opening side to hold the air inside, and fix it to the boundary of the bottle cap in such a way that the air present inside the balloon can escape through the hole in the bottle cap easily.

IV (Roll no 31 to 40) Topic :- To make a electro magnetic

Material required: battery, an iron nail, a switch, and insulated copper wire.

Steps to prepare:-Connect one terminal of the switch to one end of the copper wire. Connect a battery between the free ends of the wire and the switch. Now, if you push the switch and move the nail near ferromagnetic materials, the object gets attracted and stick to the nail.

Hot Glue Gun/Glue

motion

o Section-B- Diagram and Labeling assessment activity.

- Draw well labelled diagrams of the following:
 - Flow chart of Seven fundamental units
 - > Distance time graph for uniform motion.
 - > Position time graph for uniform acceleated
- Velocity time graph for accelerated motion
 - Velocity time graph for uniform motion

• Section-C-Experiment based activity.

• One activity which can be performed at home with parental supervision.

Name of the Activity: Marble Roller Coaster: Converting Potential Energy to Kinetic Energy Material Required: insulation Glass, marbles, Utility knife, Masking tape, table stop watch **Procedure:** Cut the foam pipe insulation in half (the long way) to make two U-shaped channels.

- 1. The illustration below shows the foam pipe insulation, end-on. The insulation comes with one partial cut along the entire length. Complete this cut with the utility knife (yellow circle in the illustration above)To make a roller coaster track, tape two (or more) lengths of the foam U-channel together, endto-end. The joint between the two pieces should be as smooth as possible.
- 2. In order to measure the velocity of the marble, you'll need a way to measure how much distance the marble travels during a measured time interval Use the stopwatch to measure the time it takes for the marble to travel a certain length along the Masonite track.
- 3. Measure the height of the starting point for the track.
- 4. Measure the mass of the marble.
- 5. Calculate the gravitational potential energy of the marble at the starting point.
- 6. Run a single marble down the track 10 separate times.
 - a. For each run, use your striped measuring stick and stopwatch to measure the velocity of the marble as it completes the track.
 - b. Calculate the average of your 10 measurements.
 - c. More advanced students should also calculate the standard deviation.
- 7. From your velocity measurement and the mass of the marble, calculate the kinetic energy of the marble.
- 8. Repeat the velocity measurement at various points on the track by cutting the track and allowing the marble to continue on in a straight line on a smooth surface. Use your striped measuring stick and stopwatch to measure the velocity of the marble.
 - > Observation:
- \succ Conclusion:

 \triangleright Precautions:

Section-D- Derivations 0

Learning Homework:

- **Derivations:**
 - 1) Derivation of dimensional formula of force, Workdone, Garavitional constant and dielectric constant
 - 2) Equation of trajectory of horizontal projectile
 - 3) Equation of trajectory of Angular projectile
 - 4) Derive the three equation of motion with calculus method
 - 5) Derive the Formula of distance traveled in nth time in a uniform motion
- Section-E-Revision assignment.



Revision Assignment - 1

Class: 11th

Ch. Name.: Mathematical Tools

Subject: Physics Ch. No. 0

For recapitulation & solving the assignment the students should refer to their NCERT BOOK, SL Arora Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no.

Case Study-1

Measurement of any physical quantity involves comparison with a certain basic, arbitrarily chosen, internationally accepted reference standard called unit. The units for the fundamental or base quantities are called fundamental or base units. The units of all other physical quantities can be expressed in terms of fundamental units and are thus named as derived units. In SI system units of seven base quantities are taken as the fundamental units. The nature of a physical quantity is described by its dimensions. All the physical quantities can be expressed in terms of a physical quantity are thus the powers to which the base quantities are raised to represent that quantity

Q1 Which of the following is not a fundamental unit ?

(a) Current	(b) meter	(c) second	(d) kilogram	
.Q2. Which one of the follow	wing is a dimensionles	ss quantity?		
(a) Mass	(b) Weight	(c) Specific weight	(d) Reynold's number	
Q3.If the unit of force and l	ength are doubled, th	e unit of energy will l	De	
(a) 1/2 times	(b) 2 times	(c) 4 times	(d) 1/4 times	
Q4. Which of the following physical quantity is dimensionless?				
(a) angle	(b) specific gravity	(c) strain	(d) all of these	
Q5. Give that the displacem	ent of a particle is given	ven by x = A sin kt, w	here t denotes the time. The unit	
of k is				
(a) radian	(b) metre	(c) hertz	(d) second	

Part-2

Subject Specific conceptual definitions & Application based Questions

Q.4. Define the following terms:-

- (i) intercept
- (ii) slope
- (iii) differentiation
- (iv) definite integration

Q.5. Differentiate the following:-

- i) mass and weight
- ii) definite integration and indefinite integration
- iii)slope and intercept
- iv) derivative and integration

Q.6. **Application based Questions**

1.). Solve the following equation $3x^2 - 8x + 5 = 0$ for the value of x.

2) A particle starts from origin with uniform acceleration. Its displacement after t seconds is given in metres by the relation $A = 5 t^2 + 4t + 8$ Calculate the magnitude of its

(i) initial velocity (ii) velocity at t = 4 s (iii) displacement at t = 5 s

Q.7. Assertion and reason

Directions: These questions consist of two statements, each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following four responses.

(a)If both Assertion and Reason are correct and the Reason is a correct explanation of the Assertion.

(b)If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion.

(c)If the Assertion is correct but Reason is incorrect.

(d)If both the Assertion and Reason are incorrect.

Q1.Assertion: Force cannot be added to pressure.

Reason: Because their dimensions are different.

Q2.Assertion: Parallax method cannot be used for measuring distances of stars more than 100 light years away.

Reason: Because parallax angle reduces so much that it cannot be measured accurately.

Q3.Assertion: Rate of flow of a liquid represents velocity of flow.

Reason: The dimensions of rate of flow are [M0L1T-1]

Q.8. Conceptual and Mental Ability Based Type Questions

1. Make the graph for equations:

(i)
$$x^2 = ky$$

(ii)
$$x^2 + y^2 = a^2$$

2. Evaluate the following

(i)
$$((999)^{\frac{1}{3}}$$

- (ii) $(101)^{\frac{1}{2}}$
- 3. Find the values of:

(i) $Sin (270^{\circ})$

- (ii) $\cos(120^{\circ})$
- (iii) $\tan(150^\circ)$
- 4. Find slope & intercept of following equations:-

(i)
$$10y + 5x = 15$$
,
(ii) $-y + 4x = 2$

5. Differentiate the following functions with respect to x. (ii) x^7 (iii) $\cos x^2$ (i) sin 3x.

(iv) 4x tan x

6. Solve the given integrations:

(i)
$$\int_{1}^{2} (x+2)^2 dx$$
 (ii) $\int_{1}^{2} e^{3x} dx$ (iii) $\int_{0}^{2} e^{3} dx$ (vi) $\int_{0}^{\pi} \sin 3x dx$



Revision Assignment - 2

Subject: Physics

Ch. Name: Unit and measurement

Ch. No. 2

For recapitulation & solving the assignment the students should refer to their NCERT BOOK, SL Arora

Part-1

(Case Study Question/Activity based Question) Instruction: Read the following passage and answer the question no.

Case Study- 1

Before learning the dimensional formula, let us recall what is dimension. Dimension in maths is a measure of the length, width, or height extended in a particular direction. By dimension definition, it is a measure of a point or line extended in one direction. Every shape around us has some dimensions. The concept of dimension in maths does not have any specific dimensional formula. Dimension of any physical quantity is the power to which the fundamental units are raised to obtain one unit of that quantity. Let us learn about the dimensional formula with a few examples in the end.

(1) $[ML^{-1}T^{-2}]$ is the dimensional formula of

- (a) force(b) coefficient of friction(c) modulus of elasticity(d) energy
- (2) The dimensional formula of coefficient of viscosity is (a) $[MLT^{-1}]$ (b) $[M^{-1}L^2T^{-2}]$ (c) $[ML^{-1}T^{-1}]$

 T^{-1}] (d)

(d) none of these

- (3) The dimensions $[MLT^{-2}A^{-2}]$ belong to the
 - (a) Magnetic flux(b) Self inductance(c) Magnetic permeability(d) Electric permittivity

(4) Plane angle and solid angle have

- (a) Unit but no dimensions (b) Dimensions but no units
 - (c) No units and no dimensions (d) both units and dimensions

(5) Which of the following is a dimensional constant

(a) Refractive index(b) viscosity(c) force(d) Work done

Part-2

Subject Specific conceptual definitions & Application based Questions

Q.4. Define the following terms:-

- (i) One Parsec
- (ii) One Light year
- (iii) Derived unit.
- (iv) Fundamental units
- (v) Electromagnetic force
- (vi) Gravitational force

Q.5. Differentiate the following:-

- i) Fundamental and derived units
- ii) SI unit and MKS units
- iii) Dimensional constant and dimensional variables .
- iv) Physical quantity and non- physical quantity.

Q.6. Application based Questions

- Q1 (i) .In what way is the knowledge of the dimensions of a physical quantity useful?
 - (ii) Write limitations of Dimensions analyses?
- Q2. (i) How is a dimensional formula different from a differential equation?
 - (ii) Write dimensions of work, force and pressure?
- Q3.(i) Distinguish between the dimensions and unit of a physical quantity.
 - (ii) Write SI unit of Acceleration, force and energy?
- Q4 (i) Derive the formula of centripetal force which depend on mass .velocity and radius of circular path.(ii) Derive the formula for time period of oscillation of simple pendulum. Depends upon mass of the bob, length of pendulum and acceleration due to gravity.

Q.7. Assertion and reason

Directions: These questions consist of two statements, each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following four responses.

(a) If both Assertion and Reason are correct and the Reason is a correct explanation of the Assertion.

(b) If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion.

- (c) If the Assertion is correct but Reason is incorrect.
- (d) If both the Assertion and Reason are incorrect.

Q1.Assertion: Dimensional constants are the quantities whose value are constant.

Reason: Dimensional constants are dimensionless.

Q2.Assertion: When we change the unit of measurement of a quantity, its numerical value changes. **Reason:** Smaller the unit of measurement smaller is its numerical value.

Q3.Assertion: In the relation $f = \frac{1}{2l} \sqrt{T} / m$ where symbols have standard meaning, m represent linear mass density.

Reason: The frequency has the dimensions of inverse of time

Q.8. Conceptual and Mental Ability Based Type Questions

- 1. What is a physical unit?
- 2. Write the relationship between numerical value of a quantity and the size of the unit.
- 3. Does the magnitude of a physical quantity change with the change in the system of units.
- 4. Define light year and express it in meter
- 5. Define one astronomical unit.
- 6. By the use of dimensional analysis show that following equation are dimensionally correct

(a)
$$v^2 - u^2 = 2aS$$

- (b) work done = $\frac{1}{2}$ (mv²) +mgh
- (c) time period = $2\pi (L/g)^{1/2}$

Revision Assignment - 3

Class: 11th

Class: 11th Ch. Name: Motion in straight line Subject: Physics Ch. No.: 3

For recapitulation & solvi	ng the assignment the	e students should refer to the	eir NCERT BOOK,MTG		
	Part-1				
(Case Study Question/Activity based Question)					
Instruction: Read the following passage and answer the question no. 1, 2 & 3.					
Case Study- 1					
If an object moving along t	he straight line covers	equal distances in equal interv	vals of time, it is said to be in		
uniform motion along a str	aight line. Distance an	nd displacement are two quar	ntities that seem to mean the		
same but are different with	different meanings and	d definitions. Distance is the	measure of actual path length		
travelled by object. It is so	calar quantity having S	SI unit of metre while displa	cement refers to the shortest		
distance between initial and	l final position of objec	ct. It is vector quantity. The m	agnitude of the displacement		
for a course of motion may	be zero but the corresp	onding path length is not zero			
Q.1. Can path length be zer	to for motion of body f	rom one point to other point?			
(a) Yes	(b) No	(c) Sometimes possible	(D)none of these		
Q.2. For rectilinear motion	displacement can be				
(a) Positive only	(b) Negative only	(c) Can be zero	(d) All of these		
Q.3. equation of motions at	re applicable to motion	with			
(a) uniform acceleration	on	(b) non uniform acceleration	1		
(c) constant velocity		(d) none of these			
Q.4. The area under velocit	ty time graph gives				
(a) Displacement over	given time interval	(b) Acceleration			
(c) Velocity		(d) None of these			
Q5. Slope of velocity time	graph gives				
(a) Acceleration	(b) Velocity	(c) Distance	(d) Displacement.		
		Part-2			
Subject S	pecific conceptual def	finitions & Application based	d Questions		
Q.4. Define the following	terms:-		··· (i) ···· ··· ··· ··· ··· ··· ····		
(1) Distance	(11) Reference point	(111) One dimensional motio	n (iv) point object		
0.5 Differentiate the fe	llowing				
Q.5. Differentiate the lo	nowing:-				
i) unstance and unspirition	acement				
iii) uniformaaaalarat	y. tion and variable accel	protion			
in) Average velocity	ion and variable accele				
iv) Average velocity	and instantaneous ve	locity			
0.6 Application based	Questions				
Q.0. Application based	Questions	acceleration. Its displacement	y after t seconds is given in		
1. A particle starts fit	on $x = 5^{\perp}$	$_{-6t} \pm 7t^2$	x after t seconds is given in		
Calculate the magn	itude of its (i) initial ve	-0t + 7t	iii) uniform acceleration and		
(iv) displacement a	t t = 5 c	$\frac{1}{2} = \frac{1}{2} = \frac{1}$			
(iv) displacement a	$t t = J \delta$.		4 ³ 4 ²		
2. The mass of a body	is 2.5 kg. It is in motio	on and its velocity v after time	et is $v = \frac{i}{3} + \frac{i}{3} + 1$		

Calculate the force acting on the body at the time t = 3s.

- 3. What is the relative velocity of two bodies having equal velocities?
- 4. A 400m long railway train, is going from New Delhi railway station to Kanpur. Can we consider a railway train as a point object?

Q.7. Assertion and reason

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q1.<u>Assertion</u>: The magnitude of the displacement for a course of motion may be zero.

<u>Reason</u> : The path length for the corresponding course of motion is zero.

<u>Q2.Assertion</u> : The speedometer of an automobile measure the average speed of the automobile. **<u>Reason</u>** : Average velocity is equal to total displacement per total time taken.

<u>O3. Assertion</u> : The average speed of an object is greater than or equal to the magnitude of the average velocity over a given time interval.

<u>Reason</u> : The two are equal only if the path length is equal to the magnitude of distance.

Q.8. Conceptual and Mental Ability Based Type Questions

- Q1. Poaition of patrical is given by $X=18t+5t^3$.calculate:
 - 1. Instantaneous velocity at t=2sec
 - 2 .Average velocity between 1 second and 3 sec.
 - 3. Instantaneous acceleration at t= 2sec
- Q2. A body travels A to B at 40 m/sec and from B to A at 60 m/sec calculate average speed and zverage velocity.
- Q3. A body start from rest, what is ratio of distance travelled by body during 4th and 3rd second?
- Q4. A ball is thrown upward with a velocity of 200 m/sec.It will reach the ground after how much time.
- Q5. A body moves along a curved path of a quarter circle .calculate ratio of distance to displacement.
- Q6. The velocity of the bullet becomes one third after it penetrates 4 cm in a wooden block. Assuming that bullet is facing a constant resistance during its motion in the block. The bullet stops completely after travelling at (4 + x) cm inside the block. What is the value of x ?
- Q7. For the velocity time graph shown in the figure below, the distance covered by the body in the last two seconds of its motion is what fraction of the total distance travelled by it in all the seven seconds?



- Q8. A ball is thrown vertically upwards with a velocity of 20ms-1 from the top of a multi storey building. The height of the point where the ball is thrown 25 m from the ground. How long will it be before the ball hits the ground? Take g= $10ms^{-2}$.
- Q9. A ball thrown vertically upwards with speed 'u' from the top of a tower reaches the ground in 9 s. Another ball is thrown vertically downwards from the same position with speed 'u', takes 4 s to reach the ground. Calculate the value of 'u'. (Take $g=10ms^{-2}$)



Revision Assignment - 4

Subject: Physics

Ch. No.: 4

Class: 11th

Ch. Name: Motion in Plane

For recapitulation & solving the assignment the students should refer to their NCERT BOOK,MTG Part-1 (Case Study Question/Activity based Question) Instruction: Read the following passage and answer the question no. 1, 2 & 3. Case Study-1 Projectile motion is a form of motion in which an object or particle is thrown with ucosθ some initial velocity near the earth's surface and it moves along a curved path under the action of gravity alone. The path followed by a projectile is called its trajectory, $u \sin \theta$ g which is shown below. When a projectile is projected obliquely, then its trajectory is as shown in the figure below. Here velocity u is resolved into two components, we get (a) $u \cos\theta$ along OX and (b) $u \sin\theta a \log OY$. (i) The example of such type of motion is (a) motion of car on a banked road (b) motion of boat in sea (c) a javelin thrown by an athlete (d) motion of ball thrown vertically upward (ii) The acceleration of the object in horizontal direction is (a) constant (b) decreasing (c) increasing (d) zero (iii) The vertical component of velocity at point H is (a) maximum (b) zero (c) double to that at O (d) equal to horizontal component (iv) A cricket ball is thrown at a speed of 28 m/s in a direction 30° with the horizontal. The time taken by the ball to return to the same level will be (a) 2.0 s (b) 3.0 s (c) 4.0 s (d) 2.9 s (v) In above case, the distance from the thrower to the point where the ball returns to the same level will be (a) 39 m (b) 69 m (c) 68 m (d) 72m Part-2 Subject Specific conceptual definitions & Application based Questions Q.4. Define the following terms:i) Projectile motion ii) Uniform circular motion iii) Angular displacement (iv) Frequency Q.5. Differentiate the following:i) Linear velocity and angular velocity. ii) Scalar product and vector product. iii) Linear acceleration and angular acceleration. iv) Position vector and displacement vector. Q.6. **Application based question:-**A particle is moving in x-y plane on a straight line its x and y coordinates are given as $x = (2t^2+4)$ m and Y = (23x)**Q1** +8) m and t is in second. The acceleration of the particle will be? Under what conditions will the vectors A = 3i-5 j+5k and 5i-j+bk be perpendicular to each other? Find the **O2** value of |b|? **O3** Find out the magnitude of resultant of two displacement vectors, each having a y-component of 10 km, are added together to form a resultant that forms an angle of 600 from the +x-axis. ($\sin 600 = 0.87$, $\cos 600 = 0.5$) Q4 A point size body is moving along a circle at an angular velocity of 2.8 rads–1. If the centripetal acceleration of the body is 7 ms-2, then its speed is: **Q 5** If $\vec{A} = \hat{i} + 2\hat{j} + \hat{k}$, $\vec{B} = 2\hat{i} + 3\hat{k}$ and $\vec{C} = -2\hat{i} + 4\hat{k}$ then find magnitude of vector $\vec{A} + \vec{B} - \vec{C}$. **Q. 6.** If a unit vector is represented by 0.5i + 0.8j + ck then find value of c. Q.7. Assertion and reason questions: (i) Assertion (A): In the motion of projectile the horizontal component of velocity remains constant Reason (R): The force on the projectile is the gravitational force which acts only in the vertically downward direction (a) Both Assertion and reason are true and reason is correct explanation of assertion (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.

- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

(ii)

- Assertion In the motion of projectile the horizontal component of velocity remains constant
- Reason-The force on the projectile is gravitational force which acts only in vertically downward direction
- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false
- (iii) Assertion If net force on a rigid body is zero, it is either at rest or moving with a constant linear velocity. Nothing else can happen.

Reason - Constant velocity means linear acceleration is zero.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q.8. Conceptual and Mental Ability Based Type Questions)

- 1. A cricketer can throw a ball to a maximum horizontal distance of 100m how much high above the ground can the cricketer throw the same ball?
- 2. The position of a particle is given by

$$(3ti-2t^{2}j+4k)$$

Where t is in seconds and the coefficients have the proper units for r to be in metres.

- a) Find the v and a of the particle.
- 3. At what point of projectile motiona) Potential energy is the maximum?b) Kinetic energy is the minimum?
 - b) Kinetic energy is the minimum?
- 4. A cyclist starts from the centre O of a circular park of radius 1km1, reaches the edge P of the park, then cycles along the circumference, and returns to the centre along QO as shown in Fig. 4.21. If the round trip takes 10min, what is the
 - a) Net displacement?
 - b) Average velocity?
 - c) Average speed of the cyclist?
- 5. Rain is falling vertically with a speed of 30m/sA woman rides a bicycle with a speed of 10m/sin the north to south direction. What is the direction in which she should hold her umbrella?



- 7. A bullet fired at an angle of 30° with the horizontal hits the ground 3.0 km away. By adjusting its angle of projection, can one hope to hit a target 5.0 km away? Assume the muzzle speed to be fixed, and neglect air resistance.
- 8. The ceiling of a long hall is 25 m high. What is the maximum horizontal distance that a ball thrown with a speed of 40 m/s can go without hitting the ceiling of the hall?
- 9. A person observes a birds on a tree 39.6 m high and at a distance of 35.2 m. With what velocity the person should throw an arrow at an angle of 45° so that it may hit the bird?

(Section-B)

Lab Manual work.

Experiment-1 <u>https://youtu.be/R0vxwQ9YpQc</u>

Experiment-2 https://youtu.be/_NbQV9OEsoQ

Experiment-1 To find diameter of calorimeter using vernier calliper.

Experiment-2 To find thickness of wire using screw gauge.





R.E.D. GROUP OF SCHOOLS Summer Holidays Homework SESSION: 2023-24

CLASS – 11th Subject: Chemistry

Text Book: NCERT Book

1. Syllabus Covered up to MAY END

- o Chapter No.-1 Chapter Name Some basic concepts of chemistry
- o Chapter No.- 2 Chapter Name- Structure of Atom
- o Chapter No.- 3 Chapter Name- Classification of Elements and periodicity in properties

2. List of all new concepts taught up to MAY END

- o Mole concept
- Concentration Terms
- $\circ \quad \text{Stoichiometry and limiting reagent}$
- Bohr's Model of atom
- o Hydrogen Spectrum

3. Formative Assessment based Homework:

- Section-A-Creative Project/ Working model/ Inquiry based project.
- Section-B-Diagram and Labeling assessment activity.
- Section-C-Experiment based activity.
- Section-D- Learning and Pre-reading homework.

4. <u>Summative Assessment based Homework:</u>

• Section-E-One assignment for each chapter from the syllabus covered before holidays

5. Tools required for doing Homework:

- NCERT Text Book, Pradeep book
 A4Sheets, Internet
- Notebook

- _____
- Resources as per activity

6. Instruction/Guidelines for Formative Assessment based Homework:

Sr. No.	Торіс	Roll No.
1	Shape of s- orbitals	1 to 10
2	Shape of p-orbitals	11 to 20
3	Electronic configuration of elements with atomic no.	21 to 30
4	Shape of d-orbitals	31 to last roll no.

<u>Section-A-Creative Project/ Working model/ Inquiry based project.</u>

<u>Topic 1</u> :	Shape of s- orbitals
	Materials Required: A4 sheets, folder, NCERT book, notes and help book
	Steps to prepare: Understand the concept and explain it on A4 sheets.
<u>Topic 2</u> :	Shape of p- orbitals
	Materials Required: A4 sheets, folder, NCERT book, notes and help book
	Steps to prepare: Understand the concept and explain it on A4 sheets.
<u> Topic 3</u> :	Electronic configuration of elements with atomic no. 21 to 30
	Materials Required: A4 sheets, folder, NCERT book, notes and help book
	Steps to prepare: Understand the concept and explain it on A4 sheets.

- Quantum numbers
- Electronic configurations
- Mendeleev's Periodic table
- Modern periodic table

<u>Topic 4</u> : Shape	Shape of d- orbitals				
Mater	rials Required: A4 sheets, folder, NCERT book, notes and help book				
Steps	Steps to prepare: Understand the concept and explain it on A4 sheets.				
o Section-B- Diagram	and Labeling assessment activity.				
• Draw well labell	• Draw well labelled diagrams of the following:				
Spectral series	es of hydrogen atom				
Rutherford a	lpha scattering model				
Shapes of or	bitals				
• Section-C-Experime	ent based activity.				
Name of the Activity	To observe how eggshell is protected by tooth paste and learn how tooth				
	reacts to acids and stain.				
Material Required:	Egg, toothpaste, coca cola and vinegar.				
Procedure:	Take four eggs and wash it carefully coat two plain eggs with good amount of				
	toothpaste evenly. And the rest two eggs remain as it is. That means we are not				
	coating these eggs with any other material. Pick one plain egg and one toothpaste				
	coated egg and drop them in coke filled glasses respectively wait for 24 hours to				
	see the outcomes.				
Observations :	Egg shell is the rich source of calcium carbonate where as Coca-Cola is acidic in				
	nature. When the plain egg dropped in the coke, the acidic contents immediately				
	start reacting with calcium carbonate and forms stains. On the other hand, the				
	eggs coated with toothpaste, when dropped in the coke and the fluoride in				
	toothpaste build a protective layer between the eggshells and acidic.				
Conclusion:	Fluoride in toothpaste makes the eggshell stronger and protects it from reacting				
Precautions [.]	to acture contents of coke. Wash the egg carefully so that it does not break				
 Section-D-Learning 	and Pre-reading homework.				

- **Learning Homework:** Learn chapter 1, 2 and 3 along with NCERT questions.
- **<u>Pre-Reading Homework:</u>** Read Page no. 85 to 95 of NCERT BOOK.

• Section-E-Revision assignment.



R.E.D. Group of Schools Revision Assignment 1

Subject: Chemistry

Ch. No.: 1

Class: 12th

Ch. Name: Some basis concepts of chemistry

Part-1

(Case Study Question/Activity based Question)

Instr	uction:	Read t	he following pa	assage and answer th	he question no. 1, 2 & 3.	
Case	Study-	· 1				
	6.022 const an ex	214179 : tant in l xplicit u	× 10 ²³ , a funda honor of Italian unit of "per mo	amental constant na n scientist Amedeo A le," a conveniently n	amed Avogadro's numbe Avogadro. This constant i rounded version being 6.	er (NA) or the Avogadro is properly reported with 022×10 ²³ /mol. Consistent
	with its definition as an amount unit, 1 mole of any element contains the same number of atoms					
	as 1 mole of any other element. The masses of 1 mole of different elements, however, are different,					
	since the masses of the individual atoms are drastically different. The molar mass of an element					
	(or compound) is the mass in grams of 1 mole of that substance, a property expressed in units of					
	gram	ıs per m	nole (g/mol).			
Q.1.	The	mass of	oxygen gas wh	ich occupies 5.6 lite	rs at STP could be	
	(a) gr	am ator	nic mass of oxy	gen	(b) one fourth of the gra	am atomic mass of oxygen
	(c) do	ouble the	e gram atomic r	nass of oxygen	(d) half of the gram atom	mic mass of oxygen
Q.2.	Wha	t is the	mass of one mo	olecule of yellow pho	osphorus? (Atomic mass o	of phosphorus = 30)
	(a) 1.	993×10^{-10}	0^{-22} mg		(b) $1.993 \times 10^{-19} \text{ mg}$	
	(c) 4.	983×10^{10}	0 ⁻²⁰ mg		(d) 4.983×10^{-23} mg	
Q.3.	Whic	ch of the	e following con	tains same number	of carbon atoms as are in	n 6.0 g of carbon (C-12)?
	(a) 6.	0 g Etha	ane		(b) 8.0 g Methane	
	(c) 21	1.0 g Pro	opane		(d) 28.0 g CO	
Q.4.	Any	charged	l particle is cal	led:		
	(a) A	tom			(b) Molecule	
	(c) Io	m			(d) Mixture	
Q.5.	5. Which has maximum number of atoms?					
	(a) 24	4 g of C	(12)		(b) 56 g of Fe (56)	
	(c) 27	7 g of A	1 (27)		(d) 108 g of Ag (108)	
				Part-	<u>2</u>	
			Subject Speci	fic conceptual defini	tions & Application base	d Questions
Q.6.	Define	e the fol	lowing terms:	-		
	i) Mo	ole		ii) Avogadro's no	iii) gram atomic mass	iv) Mole fraction
	v) lin	niting re	eagent	vi) strength	vii) Normality	viii) Molarity
	ix) E	mpirical	l formula	x) Normality		
Q.7.	Diffe	rentiate	e the following	: -		
	i)	Comp	pound and mixtu	ure		
	ii)	law o	f definite propo	rtion and law of mult	iple proportion	
	iii)	Empi	rical Formula a	nd Molecular Formul	a	
	iv)	Mola	rity and Molalit	У		
	v)	equiv	alent weight and	d gram equivalent we	eight	
Q.8 .	Appl	ication	based question	1: -		
	1.	In the	ree moles of etl	hane (C ₂ H ₆), calcula	te the following:	
		(i)	Number of m	oles of carbon atoms.		
		(ii)	Number of m	oles of hydrogen ator	ns.	
		(iii)	Number of m	nolecules of ethane.		

- 2. Calcium carbonate reacts with aqueous HCl to give CaCl₂ and CO₂ according to the reaction, CaCO₃(s) + 2HCl(aq) \rightarrow CaCl₂(aq) + CO₂(g) + H₂O(l)
 - What mass of CaCO₃ is required to react completely with 25 mL of 0.75 M HCl?
- 3. Calculate the mass percent of calcium, phosphorus and oxygen in calcium phosphate Ca₃(PO₄)₂.
- 4. If 4 g of NaOH dissolves in 36 g of H₂O, calculate the mole fraction of each component in the solution. Also, determine the molarity of solution. (specific gravity of solution is 1g mL⁻¹).
- 5. Define the law of multiple proportions. Explain it with two examples. How does this law point to the existence of atoms?

Q.9. Assertion and reason questions:

i)

- Assertion: The empirical mass of ethane is half of its molecular mass.
 - **Reason**: The empirical mass of ethane is half of its molecular mass.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false
- Assertion: One atomic mass unit is defined as one twelfth of the mass of one carbon-12 atom.
 Reason: Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as standard.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false
- iii) Assertion: Significant figures for 0.200 is 3 whereas for 200 it is 1.
 - **Reason**: Zero at the end or right of a number are significant provided they are not on the right side of the decimal point.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false
- iv) Assertion: Combustion of 16 g of methane gives 18 g of water.
 - **Reason**: In the combustion of methane, water is one of the products.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false

Assertion: Equal moles of different substances contain same number of constituent particles.
 Reason: Equal weights of different substances contain the same number of constituent particles.
 (a) Both Assertion and reason are true and reason is correct explanation of assertion

- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q.10. Conceptual and Mental Ability Based Type Questions)

Answer the following questions in one word or a sentence.

- 1. The empirical formula and molecular mass of a compound are CH₂O and 180 g respectively. What will be the molecular formula of the compound?
- 2. What will be the molarity of a solution, which contains 5.85 g of NaCl(s) per 500 mL?
- 3. What is the mass percent of carbon in carbon dioxide?
- 4. One mole of oxygen gas at STP is equal to ____.
- 5. What will be the mass of one atom of C-12 in grams?
- 6. What is the symbol for SI unit of mole? How is the mole defined?



Class: 12th

R.E.D. Group of Schools

Revision Assignment – 2

Subject: Chemistry

Chapter -2 **Chapter Name- structure of atom**

(D) $2 \rightarrow 1$

For recapitulation & solving the assignment the students should refer to their NCERT textbook of Science

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study-1

Electron moves around the nucleus in circular orbitals in fixed energy paths. As far as electron moves in these orbits neither energy is absorbed nor liberated. But when electron move from lower energy level to higher energy level energy is absorbed while when it comes back from higher energy level to lower energy level energy is liberated in the form of photon & a spectral line is formed. Corresponding to different possible transitions different lines are formed which form the particular series viz. Lyman, balmer, paschen, bracket, pfund, Humphery etc. Suppose e- in hydrogen atom is present in 10th excited state, then answer the following questions based on paragraph:

- (i) If electron present in 10th excited state liberate one visible quanta then next quanta liberated will correspond to following transition –
- (A) $10 \rightarrow 2$ (B) $11 \rightarrow 2$ (C) $11 \rightarrow 1$ Total number of spectral lines which can be obtained during the transition to ground level-(ii)
- (A) 45 (B) 55 (C) 66 (D) 36
- Minimum value of wavelength that can be obtained during the transition (Where R is (iii) **Rydberg constant.**)
- (A) 121/120R (B) 11/10R (C) 100/99R (D) 10/9R The wave-numbers decrease from (iv) (A) Lyman to Pfund series (B) pfund to Lyman series (D) none of above
 - (C) Balmer series to Brackett series

Part-2

(Subject Specific conceptual definitions & Application based Questions)

Define the following terms: -

ii) Electromagnetic waves i) Electron iii) wavelength iv) Amplitude v) frequency vi) quantum no. vii) Black body viii) Isotopes ix) Isobars x) photoelectric effect xi) Radiation

Q. 2 Differentiate the following: -

0.1

i) Orbit and orbitals ii) Electromagnetic wave and Matter wave iii) Particle and wave

Q. 3 **Application based question:**

- We don't see a car moving as a wave on the road. Why? i)
- Why is the energy of 1s electron lower than 2s electron? ii)
- What are quantum no? Explain them with examples. iii)
- What are degenerate orbitals? Name some of them. iv)
- Out of electron and proton which will have higher velocity to produce matter waves of same v) wavelength? Explain

Q.4 Assertion and reason questions:

i) Assertion: All isotopes of a given element show the same type of chemical behaviour. Reason: The chemical properties of an atom are controlled by the number of electrons in the atom.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion.
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false.
- **ii)** Assertion: The position of an electron can be determined exactly with the help of an electron microscope.
 - **Reason**: The product of uncertainty in the measurement of its momentum and the uncertainty. In the measurement of the position cannot be less than a finite limit.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false
 - iii) Assertion: The radius of the first orbit of hydrogen atom is 0.529Å.
 - **Reason:** Radius of each circular orbit (rn) -0.529Å (n2/Z), where n = 1, 2, 3 and Z = atomic number.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion.
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false.
- iv) Assertion: It is impossible to determine the exact position and exact momentum of an electron simultaneously.

Reason: The path of an electron in an atom is clearly defined.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion.
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false.
- v) Assertion: Black body is an ideal body that emits and absorbs radiations of all frequencies. The frequency of radiation emitted by a body goes from a lower frequency to higher frequency with an increase in temperature.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion.
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false.

Q. 5 Conceptual and Mental Ability Based Type Questions)

- Answer the following questions in one word or a sentence.
- **1.** How many spherical nodes are present in 3p orbital?
- **2.** Explain Hund's rule of maximum multiplicity.
- 3. In which region does the spectral lines of hydrogen atom lies?
- **4.** Write the difference between ground state and excited state.
- 5. What is value of Planck's constant in SI unit?

Section-B

(Lab Manual work)

Links from You Tube: https://youtu.be/sAhzUUcEKME https://youtu.be/6L2fe6_vooY https://youtu.be/orDN6nj3Fls Experiment-1 Experiment-2 Experiment-3 (Do this work in Practical file)

NOTE: Holiday Homework will not be accepted after the assigned date.



Summer Holidays Homework

SESSION: 2023-24

CLASS - 11th

Subject: Biology

Text Book: NCERT BOOK, MTG

- 1. Syllabus Covered upto MAY END
 - o Chapter No.- 1 Chapter Name- The Living World
 - o Chapter No.- 2 Chapter Name- Biological Classification
 - o Chapter No.- 3 Chapter Name- The Plant Kingdom
 - o Chapter No.- 4 Chapter Name- The Animal Kingdom

2. List of all new concepts taught upto MAY END

- o Stobili o SPOROPHYLL.
- Viroid and Prion 0
- Coralloid Root in Gymnosperm 0

- Taxonomy 0
- 0 Orthotropus ovule Cytogenetic
- o Haplontic and Diplomatic life cycle o Sporophyte

- o Diatomaceous earth 0 3. Formative Assessment based Homework:
 - o Section-A- Make a Herbarium
 - o Section-B- Archegonium: Draw and Label
 - **o** Section-C-Expariment based activity: Potato osmometre.
 - **o** Section-D- Learning and Pre-reading homework : Learn Ncert Questions from chapter 1,2,3,4 and read them
- 4. Summative Assessment based Homework:

o Section-E- Chapter-wise Assignments

- 5. Tools required for doing Homework:
 - o NCERT Text Book, MTG book
 - o Notebook

- o A₄Sheets, Internet
- o Resources as per activity
- 6. Instruction/Guidelines for Formative Assessment based Homework:
 - Section-A-Creative Project/ Working model/ Inquiry based project.

Topic	<u>Roll No.</u>
Preparation of a Herbarium sheet	1 to 10
Tracing of Phylogeny regarding plant kingdom from algae to angiosperm on chart paper along with unique characteristics	10 to 20
Agriculture of Mushroom on organic matter instead of Biological classification of organisms and its features	21 to 30
Phylogeny of Animals from porifera to Chordate	31 to 37

(Roll No. 1 to 10) Topic: Preparation of a Herbarium sheet I.

□ □ **Materials Required:** Chart paper, Markers, Eraser, Different types of plant leaves, glue etc.

Steps to prepare:

- □ Collection of different types of plant leaves.
- □ Pasting of leaves on the different A4 size sheets.
- □ Taxonomical description of plants.

(Roll No. 11 to 20) Topic: Tracing of Phylogeny regarding plant kingdom from algae to II. angiosperm on chart paper along with unique characteristics

□ <u>Materials Required:</u> Chart paper, Markers, Eraser etc.

□ Steps to prepare:

- □ Reading and collection of information regarding phylogeny of plant kingdom.
- □ Differentiation of unique characteristics of plant kingdom
- □ Represent all the characters on a chart paper.

III. (Roll No. 21 to 30) Topic: Agriculture of Mushroom on organic matter instead of Biological classification of organisms and its features

- Materials Required: Organic matter, fungus (Agaricus)
- □ <u>Steps to prepare:</u>

- □ Preparation of organic matter with the help of house kitchen waste.
- □ Growing mashroom in the organic matter
- □ Taking picture of growth and development of agaricus.
- □ Record the observation and represent it on a chart paper along with collection of sample.

IV. (Roll No. 31 to 37) Topic: Phylogeny of Animals from porifera to Chordate

- Materials Required: Chart paper, Markers, Eraser etc.
- □ <u>Steps to prepare:</u>
 - Reading and understanding of the content regarding phylogeny of animal from porifera to chordate from various sources.
 - Represent all the characters of different phylum on the chart paper.

Section-B- Diagram and Labeling assessment activity. 0

- Draw well labelled diagrams of the following:
 - □ Archegonium and Antherozoid
 - □ Mycelium

0

□ Dinoflagellate

Sponge

Section-C-Experiment based activity.

- One activity which can be performed at home with parental supervision.
 - □ Name of the Activity: To study osmosis with the help of Potato.
 - Material Required: Fresh Large Potato, 20% Sucrose Solution, Beaker, Water, Scalpel/Blade, Petri Dish, Bell Pin Needle labeled with a Waterproof Ink
 - □ Procedure:
 - o Take a large and fresh potato and slice the potato tuber into two equal halves with the help of a scalpel or a blade.
 - Peel off the outer skin and slice the halves into squares.
 - o Scoop off the potato from the mid-region of the tuber to form a tiny cavity of a square or a circular shape.
 - The cavity prepared should have a minimum thickness at the base.
 - o Now, fill up the cavity with the freshly prepared 20% sugar solution halfway.
 - Fix a pin in the cavity in a way that the mark is in the same line as the layer of the sucrose solution.
 - o Set up the prepared osmometer in a Petri Dish/Beaker filled with water such that 75% of the potato osmometer is immersed in water.
 - The setup should be kept uninterrupted for up to 1 hour.
 - o Keep a note of the sugar solution in the osmometer towards the end of the experiment
 - o Lastly, carry out the same experiment with water in the cavity and the sucrose solution in the petri dish/beaker.
 - Observations:
 - The sugar solution rises and is seen colored within the osmoscope after an interval of time. 0
 - The rise in the level of sugar solution in the cavity of the potato tuber indicates that the sugar solution has absorbed water from the petri dish.
 - The two regions are separated from each other by a large number of cells. 0
 - Cell membranes of different cells serve as one unit of a selectively semipermeable membrane. 0 □ Conclusion:
 - The level of sucrose solution is increased in the osmometer due to the entrance of water 0 through endosmosis from the beaker.
 - Cytoplasm of the cells of the tuber that lie between the sugar solution and the water of the petri dish act as a single semipermeable membrane.
 - Water enters the sugar solution through the tissues of the potato serving as a selectively permeable membrane.
 - □ Precautions:
 - The cavity should be vertical and deep so as to leave only a thin layer of tissue at the base.
 - Peel off the skin of the tuber from the base and sides. 0
 - Make a flat base so as to keep the potato tuber intact in water in the petri dish. 0
 - The sugar solution should have a higher osmotic concentration as compared to the cell sap of 0 the tuber cells.
 - Marking of level with pin should be done carefully. 0

Section-D-Learning and Pre-reading homework. 0

- Learning Homework: Learn Q. No.1 to ...10. Page No. ...44-45. of NCERT BOOK, MTG.
- **Pre-Reading Homework:** Read Page no. ...63.... to81.... of NCERT BOOK, MTG.
- Section-E-Revision assignment.



R.E.D. Group of Schools Revision Assignment-1

Subject: Biology

Ch. Name: The Living world

Ch. No.: 1

For r	ecapitulation & solvi	ng the assignment the stude	nts should refer to their NCF	ERT BOOK, MTG
		Part-	1	
		(Case Study Question/Act	tivity based Question)	
Instru	iction: Read the follo	wing passage and answer th	ne following question.	
Q.1.0	Case Study- 1 From ba	cteria to elephants, amoeba to	o sharks, small herbs to tall tre	es -the diversity of the
living	world is amazing. Th	ese diverse forms of living or	rganisms love in every possibl	e habitats such as cold
moun	tains, deciduous forest	s, Oceans, fresh water, lakes	etc. Such a vast era of innume	rable living organisms
on ear	th compel us to think	about the core of the life that	distinguishes loving beings fro	om non living objects.
(i) A	group of plants and	animals with similar traits o	of any rank is	
(a) Taxon	(b) Species	(c) Genus	(d) Order
(ii) W	hich is less general in	n characters as compared to	enus?	
(a) Family	(b) Division	(c) Class	(d) Species
(iii) V	What is the correct see	quence?		
(a	(a) Genus-species-order-kingdom (b) Species-order-phylum-kingdom			
(c	(c) Species-genus-order-phylum (d) Kingdom-phylum-class-order			order
(iv) N	letabolism refers to			
(a) Release of energy		(b) Gain of energy	
(c) Catabolism		(d) Gain or release of energ	У
(v) B i	nomial nomenclatur	e was given by		
(a) Linnaeus	(b) Hugo De Vries	(c) John Ray	(d) Huxley
		<u>Part-</u>	2	
	<u>Subject S</u>	pecific conceptual definition	as & Application based Quest	tions
Q.2.	Define the following	terms:-		
	i) Taxonomy	ii) coorelated characters	iii) Identification	iv) Zoological park
Q.3.	Differentiate the fo	llowing:-		
	i) Genus and Species	8		
	ii) living and Non liv	ving		
	iii) Monophyletic an	d polyphyletic taxa		
	iv) Categories and T	axon.		
Q.4.	Application based	question:-		
	i) .Name a few botanical gardens in India. Also, name the largest botanical garden in the world.			

- ii) Define a monograph
- iii) If a habitat contains 20 animal species and 20 plant species, is it "diversity" or "biodiversity"?
- iv) What are the Taxonomic keys?

Q.5. Assertion and reason questions:

i) Assertion : Study of internal structure is called anatomy.

Reason : It is useful for phylogentic study.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false
- ii) Assertion : Chemotaxonomy is classifying organisms at molecular level.

Reason : Cytotaxonomy is classifying organisms at cellular level.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.

(c) If assertion is true but reason is false.

(d) If both assertion and reason are false

iii) Assertion: Living organisms are regarded as closed systems.

Reason: Energy of living organisms can not be lost or gained from external environment.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q.6. Conceptual and Mental Ability Based Type Questions)

Answer the following questions in one word or a sentence.

- 1. Keys
- 2. Herbarium
- 3. zoological museum
- 4. Order
- 5. Family

(Section-B) Lab Manual work

Links from You Tube: https://youtu.be/94A0dr4R9mI

Experiment-1 To find the starch in potato

Experiment-2 Study of distribution of stomata on the upper and lower surfaces of leaves.

(Do this work in Practical file)

NOTE: Holiday Homework will not be accepted after the assigned date.



Revision Assignment-2

Class: XI **Ch. Name: Biological Classification** **Subject: Biology** Ch. No.: 2

For recapitulation & solving the assignment the students should refer to their NCERT BOOK,MTG Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the following question.

Q.1. Case Study- 1 Since the down of civilization, there have been many attempts to classify living organisms. Aristotle was the earliest to attempt a more scientific basis of classification. He used simple morphological characters to classify plants into trees, shrubs and herbs. He also divided animals into two groups, those which had red blood and those that did not.

The art of identifying distinctions among organisms and placing them into groups that reflect their most significant features and relationship is called biological classification. The purpose of biological classification is to organize the vast number of known plants and animals into categories that could be named, remembered and studied.

(i) ICBN stands for _____.

(ii)

- (a) International Code of Botanical Nomenclature (c) Indian Congress of Biological names
- Genome of Tobacco Mosaic Virus are ____
 - (a) Double-stranded RNA
 - (c) Double-stranded DNA

(b) Single-stranded RNA (d) Proteinaceous

(b) Indian Code of Botanical Nomenclature

(d) Indian Congress of Botanical Nomenclature

The protists have which of the following? (iii)

- (a) Free nucleic acid aggregates
- (b) Nucleoprotein in direct contact with the rest of the cell substance
- (c) Membrane-bound nucleoproteins within the cytoplasm
- (d) Nucleoproteins condensed together in a loose mass
- Phylogenetic classification is based on (iv) (a) Overall similarities (b) Habit of plants (c) Common evolutionary descendants (d) All of these
- **(v)** African Sleeping Sickness is caused by _____. (b) T. Tangela
 - (a) Trypanozoma cruzi
 - (c) T. rhodesiense

Dont ?

(d) T. gambiense

		<u>1 al</u>		
	Subject Speci	fic conceptual definition	ons & Application bas	sed Questions
Q.2.	Define the following terr	ms:-		
	i) Dikaryotic phase	ii) Karyogamy	iii) Mycobiont	iv) Phycobiont
Q.3.	Differentiate the follow	ving:-		
	i) Viroids and Prions			
	ii) Eubacteria and Archa	ebacteria		
	iii) Ascomycetes and Ba	sidiomycetes		
	iv) Zoospore and Aplane	ospore		

Q.4. Application based question:-

- i) What is the nature of the cell wall in diatoms?
- ii) Why do polluted water bodies have an abundance of Nostoc and Oscillatoria?
- iii) What similarities do a virus and non-living objects share?
- iv) Why are cyanobacteria used in agricultural fields for crop improvement?

Q.5. Assertion and reason questions:

- i) Assertion : Gram-negative bacteria do not retain the stain when washed with alcohol.
 Reason: The outer face of the outer membrane of gram-negative bacteria contains lipopolysaccharides, a part of which is integrated into the membrane lipids.
 - (a) Both Assertion and reason are true and reason is correct explanation of assertion
 - (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
 - (c) If assertion is true but reason is false.
 - (d) If both assertion and reason are false
- ii) Assertion : Escherichia coli, Shigella sp. and Salmonella sp. are all responsible for diarrhoeal diseases.

Reason : Dehydration is common to all types of diarrhoeal diseases and adequate supply of fluids and electrolytes should be ensured.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

iii) Assertion : Sand fly transmits Kala-azar.

Reason : In Kala-azar, the parasite damages the brain.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q.6. <u>Conceptual and Mental Ability Based Type Questions</u>)

Answer the following questions in one word or a sentence.

- 1. plasmodium
- 2. Zooflagellates
- 3. Pseudomycelium
- 4. coenocytic
- 5. Plasmogamy

(Section-B)

Lab Manual work

Links from You Tube: <u>https://youtu.be/MJvIcn8YI5Y</u>

Experiment-1 Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.

Experiment-2 Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).

(Do this work in Practical file)

NOTE: Holiday Homework will not be accepted after the assigned date.



Revision Assignment-3

Class: XI Ch. Name: The Plant Kingdom Subject: Biology Ch. No.: 3

For recapitulation & solving the assignment the students should refer to their NCERT BOOK, MTG Part-1 (Case Study Question/Activity based Question) Instruction: Read the following passage and answer the following question Q.1. Case Study-1 Plantae is the plant kingdom that contains all plants on the earth. They are multicellular eukaryotes. Characteristically, they contain a rigid structure that surrounds the cell membrane known as the cell wall. Plants also have a green-colored pigment known as chlorophyll that is quite vital for photosynthesis. Hence, they have an autotrophic mode of nutrition. A plant kingdom is a massive group; hence, the kingdom is further categorized into subgroups. The best way to study plants is to 'first recognize how the classification takes place within Kingdom Plantae. Once you know the simple stuff, it then becomes easier to be familiar with in detail about each plant. i. Angiosperms are the dominant flora because of (a) Domestication by man (b) Power of adapting in diverse habitats (d) Property of producing a large number of seeds (c) Self-pollination property ii. Pteridophytes differ from mosses in (a) Independent gametophyte (b) Dependent gametophyte (c) Flagellate antherozoids (d) Independent and dominant sporophyte iii. Which one is not an exception in angiosperms? (a) Double fertilization (b) Secondary growth (c) Presence of vessels (d) Autotrophic nutrition iv. Most primitive vascular plants? (a) Mosses (b) Cycads (c) Kelps (d) Ferns v. A plant that has seeds but no flowers and fruits? (a) Bryophytes (b) Gymnosperms (c) Mosses (d) Pteridophytes Part-2 Subject Specific conceptual definitions & Application based Questions Q.4. Define the following terms:i) Joker of plant kingdom ii) Antheridium iii) Archegonium iv) Gametophyte **Q.5**. Differentiate the following:i) Prothallus ii) Lichen and Mycorrhiza iii) Root And Rhizoids iv) phaeophyceae and Chlorophyceae **O.6**. **Application based question:**i) Describe the life cycle and nature of a fern prothallus

ii) Discuss the phylogenetic relationship of Cycas with any other group of plants.

iii) How far does Selaginella fall short of seed habit?

iv) Does heterospory have some evolutionary significance in the plant kingdom?

Q.7. Assertion and reason questions:

i) Assertion: The colour of brown algae varies from olive green to brown. Reason: In brown algae, fucoxanthin is responsible for colour variation.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

ii) Assertion: Plant body is usually grass green in colour in Chlorophyceae.

Reason: Members of Chlorophyceae possess chlorophyll a, c, carotenoids and xanthophyll.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

iii) Assertion: Chlorella and Spirulina are used as a food supplement by space travellers.Reason: These are unicellular algae.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q.8. Conceptual and Mental Ability Based Type Questions)

Answer the following questions in one word or a sentence.

- 1. Sporophylls
- 2. Strobili
- 3. Orthotropous ovule
- 4. Thallus
- 5. Fucoxanthin

(Section-B)

Lab Manual work

Links from You Tube: <u>https://youtu.be/ZssDTX3O6_4</u>

Experiment-1 Test for presence of bile salts in urine.

Experiment-2 Parts of a compound microscope.

(Do this work in Practical file)

NOTE: Holiday Homework will not be accepted after the assigned date.



Revision Assignment-4

Class: XI Ch. Name: Animal Kingdom Subject: Biology Ch. No.: 4

For r	For recapitulation & solving the assignment the students should refer to their NCERT BOOK, MTG				
	Part-1				
		(Case Study Question/Ac	ctivity based Question)		
Instr	uction: Read the follo	wing passage and answer t	the question no. 1, 2 & 3.		
Case anima anima others plants food chara	Case Study- 1Animals are eukaryotic, multicellular, species belonging to the Kingdom Animalia. Every animal has its own unique characteristics. They obtain their energy either by feeding on plants or on other animals. There are millions of species which have been identified, few share similar characteristics while others differ drastically. Animals are classified based on their characteristics. They are eminent from algae, plants, and fungus where rigid cell walls are absent. Some are also heterotrophic, in general, they digest their food within the internal chambers which again distinguish them from algae and plants. Another elite character of these species is that they are motile, except in certain life stages.				
Q1.	Identify the charact	eristic of acoelomates			
	(a) Absence of meso	lerm			
	(b) Absence of brain				
	(c) Coelom that is ind	completely lined with a meso	derm		
	(d) Solid body without	ut a cavity surrounding interr	nal organs		
Q.2.	Flame cells are the	excretory structures for			
	(a) Annelida	(b) Coelenterates	(c) Platyhelminthes	(d) Echinodermata	
Q.3.	Phylum Porifera is	classified based on			
	(a) Branching	(b) Symmetry	(c) Spicules	(d) Reproduction	
Q.4.	The canal system in	n sponges develops due to			
	(a) Porous walls		(b) Gastrovascular system		
	(c) Reproduction		(d) Folding of inner walls		
Q.5.	Select the correct p	air			
	(a) Arthropoda- silv	er fish	(b) Pisces- jelly fish		
	(c) Echinodermata-	cuttle fish	(d) Mollusca- star fish		
0.4	<u>Part-2</u> <u>Subject Specific conceptual definitions & Application based Questions</u>				
V.T.	Denne the ronowing				

i) Larva ii) Flame cell iii) Choanocytes iv) Amphibia

Q.5. Differentiate the following:-

i) chordates and Non chordates

ii) Amphibia and Reptilia

iii) Protostomy and Deuterostomy

iv) Platyhelminthes and Aschelminthes

Q.6. Application based question:-

- i) Provide a technical term for the following:
 - (a) Blood filled cavity in arthropods
 - (b) A stinging organ of jellyfish
 - (c) Free-floating form of Cnidaria
 - (d) Lateral appendages in aquatic annelids
 - (e) Mention the role of the radula in Molluscs.

ii) The radula helps in scraping and scratching the food and creates depressions in the rocks. Molluscs use rocks as their habitat.

- iii) What do you understand by metagenesis? Give an example.
- iv) What is bioluminescence? Give an example.

Q.7. Assertion and reason questions:

i) Assertion : Sponges belong to Porifera.

Reason : Sponges have canal system.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

ii) Assertion: Sponges exhibit cellular level of organization.

Reason: In sponges, cells are arranged as loose cell aggregates.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

iii) Assertion: In ctenophores, digestion is chiefly extracellular.

Reason: Digestive tract is incomplete in ctenophores.

- (a) Both Assertion and reason are true and reason is correct explanation of assertion
- (b) Both Assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true but reason is false.
- (d) If both assertion and reason are false

Q.8. <u>Conceptual and Mental Ability Based Type Questions</u>)

Answer the following questions in one word or a sentence.

1. Coelom 2. Symmetry 3. Notochord 4. Triploblastic 5. Segmentation

(Section-B)

Lab Manual work

Link from YouTube https://youtu.be/wvzn1p3oPs1

Experiment-1 Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

Experiment-2 Test for presence of sugar in urine.

(Do this work in Practical file)

NOTE: Holiday Homework will not be accepted after the assigned date.

R.E.D. GROUP OF SCHOOLS



Summer Holidays Homework (Session: 2023-24)

Class-XI

Subject- Phy. Education

Text Book: Phy. Education (Ratnasagar)

"Learning is the only thing the mind never exhausts, never fears and never regrets"

The long awaited Summer Vacation is here. It allows you to rejuvenate and catch up on hobbies and other interests that are best pursued with time. However, it is important to strike balance between leisure and learning. To enhance your learning, we have planned Home Assignment, to keep your skill sharp and concepts clear. It will help you develop vital skills such as independent research.

As it is well recognized that R.E.D. Sr. Sec. School not only focuses on academics but lay equal importance on Co-Scholastic Competencies. The school also desires you to adhere to the following guidelines for a fulfilling break:

- Read newspapers and magazines to gather knowledge of different processes used in physical educationrelated industries and technological applications.
- Develop process-skills and problem- solving abilities and application of physical education
- The Holidays home work must be done in a very neat and presentable manner. Questions must be done in the given sequence.
- The child will be assessed for the presentation, neatness, completion of all the given questions and timely submission.
- Make sure that all syllabus done till June must be revised thoroughly as you begin your Pre-Mid from July.
- The revision assignments will help you prepare for Pre-Mid in the month of July.
- For the project work, wherever it is mentioned, strictly adhere to the instructions.
- Holiday Home work is a part of Internal Assessment and Practical Exam Assessment.

Syllabus Covered:

- Chapter 1: Changing Trends and career in Physical Education
- Chapter 2: Olympism
- Chapter 3: Yoga

Chapter – 4: Physical education and sports for (CWSN) Divyang

Daily Time to be spent for doing H.W (Hours per day): 45 minutes.

Tools Required

Physical Education Book, Notebook, Pen, Chart, Pencil.

Home Work Assessment by Parents

Parents will match the quantity of homework given with the index of student's homework notebook and certify it on the last page.

Date of Submission: 03-07-2023

Checkpoints for the Assessment of Home Work:

Sr. No.	Checkpoints for Assessments of Home work	Remarks
1	Index	Updated /Not updated
2	Quality of Handwriting presentation	Good /Avg./ Poor
3	Quality of creative writing	Good /Avg./ Poor
4	Quality of Project work	Good /Avg./ Poor
5	Quality of Reading & Comprehension skills	Good /Avg./ Poor
6	Whether Learning work done or not	Done/ Not done
7	Whether H.W is fully Completed	Yes/ No
8	Whether H.W is partly Pending	Yes/ No

	R.E.D. GROUP	OF SCHOOLS		
	Holiday Homewor!	k Assignment – 1		
Cla	ss: XI		Subject: Phy. Edu.	
Ch.	Name: Changing trend and career in Physical Edu	ucation	Ch. No.: 1	
Ger	ieral Instruction:			
1.	All questions are compulsory.			
2.	The assignment consists of 14 questions and all are con	npulsory.		
Э. Л	Question 1-8 carry 1 mark each and are multiple thou Operations 9 corry 2 marks each and shall not averad 4	Ice Questions.		
- 1 . 5	Questions 9 carry 2 marks each and shall not exceed 4	0-00 words. ed 80 -100 words		
5. 6.	Questions 12 carry 4 marks each and shall not exceed	100-150 words.		
7.	Ouestions 13 - 14 carry 5 marks each and shall not exceed	ceed 150-200 words.		
8.	Summer Holiday work should be written in a fair Note	e book.		
	Section	n – A		
1.	What is the Aim Of Physical Education?			
	(a) To make a Cricketer	(b) Development of Mind		
	(c) To Wholesome development of an individual	(d) Development of Body		
2.	Khelo-India is a programme			
	(a) State level (b) National level	(c) District level	(d) Zonal level	
3.	Which one of these is not a career option in physical	education?		
	(a) Dancer	(b) Professional sports per	son	
	(c) Umpiring	(d) Sports medicine		
4.	Who Launched the Fit India Programme.			
	(a) Governor of India	(b) Prime minister of India	a	
	(c) President of India	(d) Sports minister of Indi	a	
5.	Which one of the following in not the objective of ph	sysical education?		
	(a) Mental Development	(b) Physical Development		
	(c) Healthy Development	(d) Emotional Developme	nt	
6.	How much money did government of India approved	for the session 2017-2018	to 2019-2020?	
	(a) 1756 Core (b) 5478 Core	(c) 7898 Core	(d) 6578 Core	
7.	Who said that "The World is the greatest gymnasium	where we come to make o	urselves strong?"	
	(a) Aristotle (b) Plato	(c) Swami Vivekananda	(d) All of the above	
8.	When was the Fit India Movement Launched?			
	(a) 29 Aug. 2012 (b) 29 Aug. 2012	(c) 29 Aug. 2012	(d) 29 Aug 2019	
9.	Which of the following tournament played on Clay c	ourt?	-	
	(a) Australian Open (b) Us Open	(c) French Open	(d) The Wimbledon	
	Section	n – B		
10.	What do you mean by Physical Education and what i	s the aim of Physical educa	tion?	
	Section	n – C		
11.	Give the list of career option in physical education.			
12.	Explain any three teaching career in Physical education	on.		
	Section – D			
13	Explain about Tara Chand and All India council of S	ports committees in brief.		
Section – E				
14.	Explain the Objective of Physical Education in brief.			
15.	What is Fit India program me? Explain the Objective	of Khelo-India program m	e.	

R.E.D. GROUP OF SCHOOLS

Holiday Homework Assignment – 2

Cla	ass: XI	-		Subject: Phy. Edu.		
Ch	. Name: Olympism	Ch. No.: 2				
Ge	neral Instruction:					
1.	All questions are compulsory.		_			
2.	The assignment consists of 14	questions and all are c	ompulsory.			
3. ⊿	Question 1-8 carry 1 mark each	ch and are Multiple Ch ab and shall not avaaad	40.60 words			
4 . 5.	Questions 9 carry 2 marks ear Ouestions 10-11 carry 3 mark	s each and shall not exceed	40-00 words. ceed 80 -100 words.			
6.	Questions 12 carry 4 marks ea	ach and shall not excee	d 100-150 words.			
7.	Questions 12 - 14 carry 5 marks each and shall not exceed 150-200 words.					
8.	Summer Holiday work should	l be written in a fair No	ote book.			
		Sec	tion – A			
1.	Who is the Father of Modern	Olympic?				
	(a) Pierre-de-coubertin	(b) Plato	(c) Aristotle	(d) None of these		
2.	The Ancient Olympic Games	s started in which year				
	(a) 396 BC	(b) 776 BC	(c) 1894	(d) 1896		
3.	How many rings are there in	the Olympic symbol?				
	(a) 4	(b) 5	(c) 6	(d) 7		
4.	What is the meaning of Forti	us?				
	(a) Faster	(b) Higher	(c) Stronger	(d) Unite		
5.	When was the Fit India Move	ement Launched?				
-	(a) 29 Aug. 2012	(b) 29 Aug. 2012	(c) 29 Aug. 2012	(d) 29 Aug 2019		
6.	Which of the following tourn	nament played on Clay	court?			
7	(a) Australian Open	(b) Us Open	(c) French Open	(d) The Wimbledon		
1.	who Launched the Fit India	Programme.	(b) Duinne minister of	T., 4'-		
	(a) Governor of India		(d) Sports minister of	India		
Q	(c) President of mula Which one of the following i	n not the objective of	(u) Sports minister of	India		
0.	(a) Mental Development	ii not the objective of j	(b) Physical Develop	ment		
	(c) Healthy Development	· · ·	(d) Emotional Develo	nment		
	(c) Heating Development	Section	(\mathbf{u}) Emotional Develo	pinent		
0	What are the rules of engint	Olympics?				
9.	what are the rules of ancient	Orympics?	_			
	Section – C					
10.	Write any four function of IC)C.				
11.	What are the objectives of O	lympic Games?				
	Section – D					
12	12 Write short note on Olympic ceremony and Olympic value					
12. Write short note on Orympic ceremony and Orympic value.						
10	Section $-E$					
13.	15. Explain the fundamental principles of olympism.					
14.	14. Discuss about ancient and modern Olympics in briefs.					
1						

		R.E.D. GRO	UP OF SCHOOLS	8	
	and the second se	Holiday Home	work Assignment –	3	
Cla Ch	ss: XI Name: Yoga			Subject: Phy. Edu. Ch. No.: 3	
Gei	neral Instruction:				
1. 2. 3.	The assignment consists o Question 1-8 carry 1 mark	ory. f 14 questions and all a k each and are Multiple	re compulsory. e Choice Questions.	$\frown \diamond$	
4. 5.	Questions 9 carry 2 marks Ouestions 10-11 carry 3 m	s each and shall not exc larks each and shall no	t exceed 80 -100 words.		
6.	Questions 12 carry 4 mar	ks each and shall not ex	cceed 100-150 words.		
7.	Questions 13 - 14 carry 5	marks each and shall n	ot exceed 150-200 words.		
8.	Summer Holiday work sh	ould be written in a fai	r Note book.		
1	On which date is the inte	rnational voga Dav cel	ebrated every year?		
1.	(a) 15 August	(b) 21 June	(c) 26 January	(d) 21 July	
2	Which of the following is	(b) 21 Julie	(c) 20 January	(d) 21 July	
2.	(a) Vairasana	(b) Podmosono	(a) Shavasana	(d) Comukhasana	
2	(a) vajiasana Which krive holne in nee	(b) I admasana	(C) Shavasana	(u) Oomuknasana	
5.	(a) Vasti		(a) Nauli	(d) Dhauti	
4	(a) vasu	(b) Neu	(c) Nauli	(u) Dhauti	
4.	Which kriya leads to the	radiance of the head?			
~	(a) Kapalonati	(b) Irataka		(d) Neti	
5.	Which kriya improves the	e power of concentrati	on and cures poor vision?		
	(a) Vasti	(b) Nauli	(c) Neti	(d) Trataka	
6.	Which kriya cleanses the	large intestine?			
	(a) Vasti	(b) Kapalbhati	(c) Dhauti	(d) Neti	
7.	Which is the initial step of	of deep concentration of	or samadhi?		
	(a) Pratyahara	(b) Dhyana	(c) Dharana	(d) Samadhi	
8.	This means deep thinking	g without distraction.			
	(a) Dhyana	(b) Pratyahara	(c) Samadhi	(d) Dharana	
Section – B					
9.	Differentiate between Dh	ar <mark>an</mark> a & Dhyana.			
 Section – C 10. Explain the three categories of Asana on the basis of their effects, with one example of each category. 11. Explain the importance of Yoga. 					
12	Section – D 12 What do you understand by Shat Karma Explain any 3 Kriva with its Procedure and bonefits				
12.	12. What up you understand by Shat Karma, Explain any 5 Knya with its Procedure and benefits. Section – E				
13. 14.	What do you understand Briefly explain the Ashta	by Pranayama? Explai nga Yoga.	n any 4 Pranayama with its	Procedure and benefits.	

R.E.D. GROUP OF SCHOOLS					
	Moliday Homewo	ork Assignment – 4			
Cla	ass: XI	8	Subject: Phy. Edu.		
Ch.	h. Name: Physical Education & Sports for CWSN)	Ch. No.: 3		
Ger	eneral Instruction:				
1.	All questions are compulsory.				
2.	The assignment consists of 14 questions and all are	compulsory.			
3.	Question 1-8 carry 1 mark each and are Multiple C	hoice Questions.			
4. 5	Questions 9 carry 2 marks each and shall not exceed	1 40-60 words.			
5. 6	Questions 10-11 carry 5 marks each and shall not exce	Acced 80 -100 words.			
0. 7	Questions 12 carry 4 marks each and shall not exce	evceed 150-200 words			
8.	Summer Holiday work should be written in a fair N	ote book.			
	Sect	ion – A			
1.	What should we do before extending aid to a perso	on with special need?			
	(a) Assume they need our help (b) Get their consent			
	(c) Show excessive concern	d) none of these			
2.	What is the first step in showing disability etiquet	e?			
	(a) Speaking in sign language	b) Use terms like "Handicappe	ed & Retarded"		
	(c) Use terms like "Person with blindness"	d) none of these			
3.	A child with intellectual disability will show limit	ations in which of the followin	ig areas?		
	(a) Conceptual skills	b) Social skills	0		
	(c) Practice skills (d) All of these			
4.	A child falls in the severe intellectual disability ca	tegory if the IQ is between	·		
	(a) 35 and 55	b) 20 and 40			
	(c) 10 and 20 (d) 55 and 75			
5.	Which of the following does not broadly define di	sability?			
	(a) Blindness and low-vision (b) Leprosy-Cured			
	(c) Mental retardation and illness (d) Leukoderma-cured			
6.	What is the name for the condition under which	a person has difficulty in co	omprehending written text,		
	spelling and writing accurately?				
	(a) Spina bifida	b) Epilepsy			
	(c) Dyslexia (d) Arthritis			
7.	Which day ever year is celebrated as world disabil	ity day?			
	(a) December 3 (b) December 4			
	(c) December 5 (d) December 6			
8.	Which professional works with CWSN to evaluat	e their existing skill set and p	otential to design a suitable		
	instructional method and alter general education le	essons to make these accessible	e to them?		
	(a) Counselor (b) Physiotherapist			
	(c) Special educator (d) Speech therapist			
	Sect	ion – B			
9.	How do you define "disability"? Explain with exa	mples.			
	Sect	ion – C			
10.	•. What are the causes of physical disability? Write a	bout any two in detail.			
11.	. What are the objectives of adapted physical educa	tion?			
	Sect	ion – D			
12.	. Describe the concept of disability and disorder in a	letail.			
10	Section – E				
13.	. Make a table on the types of disability, its causes a	ind its nature.			
14.	. write note on how the following can help students $(x) = \frac{1}{2} $	with special needs:	0 101 /		
	(a) Special Education counselor (b) Occu	pational therapist (c)	Special Educator		
	(d) Physical education teacher (e) Physical	otherap1st			