HOLIDAY ENGAGEMENT

2023-2024

Grade- 12A

ENGLISH

INTERNAL ASSESSSMENT -2

Project work -2

Topic choices

- 1. Evolving food tastes in my neighbourhood.
- 2. Corona pandemic and the fallout on families .
- 3. Mental wellness is as important as physical fitness.
- 4. Brand mania and teenagers
- 5. The 21st century and joint families
- 6. Internship a need for teens.
- 7. Impact of OTT platforms on the teens
- 7. Impact of OTT platforms on the teens
- 9. Overuse of digital devices
- 10. Life in children in slum area
- 11. Child labour condition in my city
- 12. Impact of online learning on students (Interview with teachers and students)
- 13. How pandemic changed education (Interview with teachers and students)
- 14. Atrocities against women
- 15. The necessity of homes for orphans or old age people
- 16. Any age appropriate topic.
- 17. The ideas / issues highlighted in the chapters / poems / drama can also be developed in the form of a

Project.

- 18. Investigation on students reading habits on their academic performance in external examinations.
- 19. Pollution & environment : Role of the youth.
- 20. The effect of physical education programmes on the wellbeing of senior secondary students.
- 21. Online shopping mania.
- To be done in total 5 phases = TOPIC \rightarrow PLAN \rightarrow RESEARCH \rightarrow CREATE \rightarrow PRESENT.
- The TOPIC chosen should allow a research / study element & allow listening-speaking opportunities
- RESEARCH to be done by: Interview / Survey / Online investigations / Reading then analyzing
 it
- The Report : Research + Presentation details.

THE PROJECT – PORTFOLIO INCLUDES THE FOLLOWING:

- I. Cover Page Title of Project
- II. School details & detail of students
- III. Statement of Purpose / objectives / goals.
- IV. Acknowledgement
- V. Certificate of completion under the guidance of the teacher.
- VI. Action Plan for the Project
- VII. Questionnaires for interview
- VIII. A 'Report' on the Topic opted for.
- IX. List of resources / bibliography

INCLUSIONS:

Photographs that capture the positive learning experience of the student. (inclusion of yours photos doing research, taking interview and so on.)

Date of submission; 22nd November 2023.

Note: Use Good quality Profile. Cover the project either with color chartpaper or velvet paper. Use words stickers for highlighting the Topic and sub topics.

PHYSICS

Complete the following experiments and activities

Section A

Experiments

- 3. To verify the laws of combination (series) of resistances using a metre bridge.
- 4. To find the frequency of AC mains with a sonometer

Activities

- 1. To assemble the components of a given electrical circuit.
- 2. To study the variation in potential drop with length of a wire for a steady current.
- 3. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

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Section B

Experiments

- 1. To find the focal length of a convex mirror, using a convex lens.
- 2. To find the focal length of a concave lens, using a convex lens
- 3. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation
- 4. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.

Activities

- 1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
- 2. Use of multimeter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order.
- 3. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

CHEMISTRY

Complete the practical file and project work.

BIOLOGY

Diwali Homework for Grade 12 Biology

Biology is a subject that cannot be studied without flowcharts and diagrams. These visual representations help us understand the complicated concepts of living systems easily. So, for this Diwali Holidays draw, practice and remember the functions of each diagram.

Chapter 1: Sexual Reproduction in Flowering Plants

Fig 1: A diagrammatic representation of L.S. of a flower

Chapter 2: Human Reproduction

Fig 2: Schematic representation of Spermatogenesis and Oogenesis

Chapter 3: Reproductive Health

Fig 3: Surgical Methods of Contraceptives

Chapter 4: Principles of Inheritance and Variation

Fig 4: Dihybrid Cross

Chapter 5: Molecular Basis of Inheritance Fig 5: Double-stranded polynucleotide chain

Chapter 6: Evolution

Fig 6: Diagrammatic representation of Miller's experiment

Chapter 7: Human Health and Diseases Fig 7: Structure of an antibody molecule

Chapter 8: Microbes in Human Welfare

Fig 8: A typical biogas plant

Chapter 9: Biotechnology: Principles and Processes

Fig 9: E. coli cloning vector pBR322 showing restriction sites (Hind III, EcoR I, BamH I, Sal I, Pvu II, Pst I, Cla I), ori and antibiotic resistance genes.

Chapter 10: Biotechnology and Its Applications Fig 10: Maturation of pro-insulin into insulin

Chapter 11: Organism and Populations

Fig 11: Representation of age pyramids for human population

Chapter 12: Ecosystem

Fig 12: Energy flow through different trophic levels

Chapter 13: Biodiversity and Conservation Fig 13: Showing species area relationship

MATHEMATICS

Diwali H.W. for grade - 12

Activity: 1- To understand the concept of local maxima, local minima and point of inflection.

Activity: 2- To verify that amongst all the rectangles of same perimeter the square has the maximum area.

Activity: 3- To measure the shortest distance between two skew lines and verify it analytically.

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Physical Education Job Sheet Class-12

Biomechanics And Sports (Ch -8)

Multiple Choice Questions

(c) Efficient movement

(MCQs)

ividitipie Cilo	ee Question		(MCQs)			
Q.1. Endurance Equ	uilibrium position	is ;				
(a) Standing on one foot		(b) Balancing o	(b) Balancing on small ball			
(c) Walking on Hanging Rope		(d) All of these				
Q.2. Low Center of	Gravity helps in;					
(a) Jumping	(b) <u>Balancing</u>	(c) Stability	(d) All of these			
Q.3.Which of the fol	lowing principle i	mproves stability a	nd balance ?			
(a) CG with in base	of support	(b) Widening th	(b) Widening the base of support			
(c) Lowering the CG		(d) All of these	(d) All of these			
Q.4. When the sum are equal to zero that	.	•	sum of the movement acting upon the body			
(a) Equilibrium		(b) Static Equil	(b) Static Equilibrium			
(c) Dynamic Equilibrium		(d) Zero Force	(d) Zero Force			
Q.5. The position of	Centre of Gravity	y changes dependi	ng upon the ;			
(a) Position of force		(b) Position of	(b) Position of the body			
(c) Position of intersection of force		(d) Position of	(d) Position of stability			
Q.6. Centre of Grav	ity is the average	location of the	an object ;			
(a) Weight	(b) Force					
(C) Balance	(d)	Velocity				
Q.7 Biomechanics	is the study of :					
(a) Body system		(b) Physics	(b) Physics			
(c) Biology		(d) <u>Biological</u>	(d) Biological systems during movements			
Q.8 The first of Law	of motion is also	called;				
(a) <u>Law of Inertia</u>		(b) Law	(b) Law of Acceleration			
(c) Law of Action and Reaction		(d) All of	(d) All of the above			
Q.9 Friction is requi	red for ;					
(a) Fast movement (b) Sto		Stopping the object	opping the object			
© Both A & B	(d)	None of these				
Q.10 Bio mechanics	is important for	;				
(a) Understanding n	novement	(b) Forc	(b) Force acting on body			

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(d) All of these

Q.11. The 2 nd Law of	motion is also ca	ilea ;				
(a) Law of Inertia	(b) Law of Ac	(b) Law of Acceleration				
(c) Law of Action and Reaction		(d) None of the	(d) None of these			
Q.12 The 3 rd Law of r	notion is also call	ed				
(a) Law of Inertia		(b) Law of Acceleration				
(c) Law of Action and Reaction		(d) None of these				
Q.13 Spike shoes use	ed for Athlete for	running give adva	antage of	·		
(a) Force (b) Weight	(c) <u>Friction</u>	(d) Stability			
(c) Red Muscle fiber	percentage	(d) All of these				
Q.14. Static Friction r	nake the object to)				
(a) Move	b) <u>Stop</u>	(C) Rest	(d) Roll			
Q15.The Law of Acce	eleration is also k	nown as				
(a) Law of Inertia		(b) Law of Action and Reaction				
(C) Law of Momentum		(d) Boyle's Law				
O 16 Piomochanica h	olo in					
Q.16.Biomechanics h	•	(b) Improving	Docians of Sr	oorte Equipmente		
(a) Improving Techniques		. ,	(b) Improving Designs of Sports Equipments			
(c) Improving perform		(d) All of these				
Q.17. The force of Fri (a) Nature of surface			a) Matarial of	Object in Contact		
(c) Both A & B	or contact	,	(b) Material of Object in Contact(d) None			
Q.18.Acceleration of	an chiect will incr	`	,	donanding on its		
(a) Density	(b) <u>Mass</u>	case as the het it (c) Shar		d) Volume		
•		. , .	`	a) volume		
Q.19. Friction always acts the motion of an object. (a) In same direction as (b) Perpendicular						
(c) Opposite		45 degree	Jaiai			
	` '	· ·	s an example	of which Law of Motion?		
(a) Law of Action and			o) Law of Acc			
(c) <u>Law of Inertia</u>		,	(d) All			
	an object will in i	· ·	,	et force increases depending on		
(a) Density	(b) <u>Mass</u>	(C) Shape	(d) Volume		
Q.22. According to No	ewton's 2 nd Law o	of Motion the grea	iter the move	ment of an object,		
(a) Longer distance w		(b) Stronger will it resist the external forces				
© Speedier it will cover	er the given dista	stable will it re	emain in its motion			

Q.23. Acceleration due to an external force acting on a moving object is technically defined as change in that objects;

(a) Location

(b) Direction

(c) Velocity

(d) Movement

Q.24. Which force will determine the quality of bounce?

(a) Law of Acceleration

(b) Law of Inertia

(c) Law of Action and Reaction

Q.25. Among the following sports, in which Friction plays the least importance role?

(a) Car Race

(b) Football

(c) Hockey

(d) Ice-skating

Q.26. Friction is a;

(a) Magnetic Force (b) None- contact force (c) Contact Force (d) Couple force

27. The measurement of the amount of Friction a surface will generate is called

(a) Calibration

(b) Coefficient

(c) Smoothness

(d) Description

Short Answers

Q.1 – State Equilibrium and its types.

Q.2. State four principles of stability?

Q.3. Write the factors on which the centre of gravity depends with suitable examples.

Q.4. State the factors affecting Projectile?

Q.5. Give examples of Newton's 2nd Law?

Q.6 What do you mean by Centre of Gravity.

Q.7. What do you understand by term biomechanics?

Short answer Question (Type II)

Q.1 Describe Equilibrium and its types?

Q.2. Discuss Newton's Laws of Motion with suitable example from sports.

Q.3. Discuss Frictional Force. What are its advantages and disadvantages?

Q.4. Define Projectile.

Physical Education Job Sheet Class-12

Psychology And Sports (Ch -9)

Multiple Choice Questions

(MCQs)

Q.1. Personality of the individual can be judged through ;

(a) Physical dimensions

(b) Cognitive dimension

(c) Social dimension

(d) All of these

Q.2. Introvert is characterized like;

(a) Friendly, talkative and good social activities

(b) Shy, talk less and self centered

Leadership ability

(d) Less strength and Slim

Q.3.Aggresion types are ;							
(a) Hostile aggression	(b) Instrumental Aggression						
(c) Assertive behavior agression	(d) All of these						
Q.4. Jung's personality has chara	cteristics						
(a) Introvert and Extrovert	(b) Musculatur eStructure						
(c) Calm and even tempered	(d) None of these						
Q.5 refers to forceful behavior our action intended to dominate.							
(a) Stress (b) Aggression Violence in a match by spectators is type of ;	(c) Motivation (d) Anxiety Q.6.						
(a) Hostile Aggression	(b) Instrumental Aggression						
(C) Assertive behavior Aggression	(d) None of the above						
Q.7 . Emotionally unstable anxiety, sadness are attitude of which personality?							
(a) Extroversion (b) N	euroticism						
(c) Agreeableness (d) Openness							
Q.8 Aggressive behavior of sports person is influenced by a ;							
(a) Emotional identification with the team	(b) Tactical Ability						
(c) Goal Orientation	(d) All of these						
Q.9. Traits like Insights, Imagination, Innovation towards new ideas are involve within;							
(a) Openness (b) Conscientiousness (c)	Agreeableness (d) Extroversion						
Q.1. Jung Classified the personality in the following way;							
(a) Introvert and Extrovert (b) Ca	alm and even tempered						
(c) Musculature structure (d) Introvert and Meelancholic							
Q.11. A person who is bold and outgoing is an;							
(a) Introvert (b) Extrovert (c) Ambivert (d) Somatotype							
Q.12.Which of the following is a legitimate behavior?							
(a) Hostile Aggression (b) Instrumental Aggression							
(c) Assertiveness (d) Proactive Aggression							
Q.13. Aggression is displayed in sports through							
(a) Assertion of Views (b) Use of abusive words							
(c) Walking away from the opponent (d) Strictly following the rules							
Q.14. Exercise promotes							
(a) Fun and home activities	(b) Brain activities						
(C) Psychological well-being as well as improves quality of life (d) Risk to life							
Short Answers (Type I)							
Q.1. What is the concept of personality?							

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Q.2. How Jung classified the personality?

Q.3. What are the dimension of big Five Personality Theory?

OR

Ellaborate any three Five Big Theory of Personality.

OR

Enlist Big Five Theory Personalities and describe any three of them while comparing their charachteristics.

- Q4. Define Aggression. What are the types of Aggression.
- Q 5. What are the factors which affects aggression in sports?
- Q.6. Define Aggression. What are its causes and its types?

