



PATHANIA PUBLIC SCHOOL, ROHTAK
CLASS – XI-MED/NON-MED (HOLIDAYS HOMEWORK 2019-20)
SUMMER BREAK FROM 27th MAY TO 23rd JUNE 2019

Note : All Written & Project Files are to be completed as instructed in Class.

English :

1. Make two posters of your choice. (A3 Sheets)
2. Write two articles of your choice. (Holiday Home Work Note Book)
3. Write two letter of your choice. (Holiday Home Work Note Book)
4. Make 5 classifieds of your choice.
5. Cut at least 10 classifieds from Newspaper and paste then in your note book.
6. Write 2 notices of your choice.

Answer these questions in Holiday Home Work Note Book

- (a) Comment on the relationship between the grand mother and the author till he went abroad. (120-150)
- (b) Explain 'Terribly Transient feet'. (50 words)
- (c) How does the story 'We are not suggest that optimism helps to endure 'The direst stress'?(120-150)
- (d) In ancient Egypt, the kings lived and died in splendour. Illustrate your answer with facts from tut's grave. (120-150)
- (e) What does the phrase barred face identity mask' mean ? (50 words)
- (f) Both boys in the story are adventure lovers discuss. (120-150)
- (g) War brings drastic changes in life and damage to people. Discuss with reference to the address. (120-150)

Biology :

- 1) Prepare Practical file.
- 2) Write dental formula of human being and define following terms
a) Diphyodont b) Heterodont c) Thecodont
- 3) Draw and write internal structure of Intestine
- 4) Where do you find Goblet and Bruner's gland? Write their function.
- 5) What are Crypts of Liberkuhn ?
- 6) Write the function of following –
a) Hydrochloric acid in stomach
b) Saliva in buccal cavity
c) Bile juice
d) Pancreatic juice
e) Intestinal juice
- 7) Write complete digestion of CBH in Human digestive system.
- 8) Write complete digestion of protein.
- 9) Write complete digestion and absorption of Fat.
- 10) How do fat is absorbed in our intestine.
- 11) Write absorption of glucose and amino acids.
- 12) Write complete mechanism of breathing.
- 13) Explain transport of CO₂.
- 14) Explain transport of O₂.
- 15) Explain oxygen dissociation curve.
- 16) Write complete structure of Alveolar surface through which diffusion of gases takes place.
- 17) Write the characteristics of diffusing surface.
- 18) Write the respiratory part of following animals – Amoeba , Earthworm , Grasshopper , frog etc.
- 19) Write various steps of coagulation of blood.

- 20) Write various events of cardiac cycle.
21) Comment on Rh blood grouping.

Physics :

Sec-A

- Q1 Give two examples of non-dimensional variables.
Q2 Which of the following length measurement is most accurate and why?
a) 2.0 cm
b) 2.000 cm
Q3 what does slope of position time graph represent for uniform motion?
Q4 Is $i-j$ is a unit vector? Explain.
Q5 Is the Rocket in flight is an illustration of projectile?

Sec-B

- Q6 What are the assumptions made in the study of projectile motion?
Q7 What are the angles made by vector $A = i + \sqrt{3}j$ with x-axis and y-axis?
Q8 A ball is released from the top of a tower height H meter it takes t seconds to reach the ground what is the position of the ball in $t/3$ seconds?
Q9 What are the characteristics of uniform motion?
Q10 Draw position-time graph of uniform motion for two objects having zero relative velocity.

OR

Derive second equation of motion

- Q11 Name of quantity is represented by dimensional formulae
a) $[ML^2T^{-1}]$ b) $[ML^2T^{-2}]$ c) $[ML^{-3}T^0]$
Q12 Check the correctness of the relation
a) $v = \sqrt{GM/R}$ b) $f = (\sqrt{T/m})/2l$
Where v is the velocity, M is mass of Earth, f is frequency, T is tension and m is mass per unit length.
Q13 Discuss the importance of graphical studies of uniform motion open object in One dimension
Q14 Define and explain the term acceleration. Derive the velocity time relation of body moving under constant acceleration?
Q15 A stone is dropped from a balloon at an altitude of 300 metre. How long will the stone take to reach the ground
a) the balloon is ascending velocity 5 m/s
b) descending with velocity 5 m/s
c) balloon is stationary
Q16 A car travelling at 36 kilometre per hour due north. Turns West in 5 seconds, and maintains the same speed. What is the acceleration of the car?

Q17 Three vectors a b c are such that $a = b + c$ and their magnitude are 5, 4 and 3 respectively. Find the angle between a and c .

Q18 Explain angular acceleration. Derive Its relation with linear acceleration.

Or

A grasshopper can jump a maximum horizontal distance 20. 4 centimetres. If its spends negligible time on the ground, what is the speed of its travel along the road take g is equal to 10 metre per second square.

Q19 Determine the sin of angles between the vectors $2i+3j-4k$ and $i-2j+2k$.

Q20 What do you understand by position vector and displacement vector

Q21 Explain the differences between dot product and cross product of vectors.

Q22 Define radian and steradian in detail.

Q23 Sarika's brother was trying to observe sun. Sarika immediately covered his eyes.

- a) what are the values shown by Sarika
- b) what is the technical reason behind this

Q24 Explain what is meant by dimensions of a physical quantity its dimensional formula and dimensional equation.

OR

What do you understand by errors of measurement? Discuss briefly the various types of errors.

Q25 Find time of flight, maximum height, and horizontal range of projectile projected with Speed v making an angle θ with the horizontal.

OR

- a) What is the Centripetal acceleration?
- b) Find its magnitude and direction in case of uniform circular motion of an object

Q26 Explain in detail various types of methods for indirect measurement

OR

Write properties of scalar and vector product of vectors for indirect measurement.

Computer Science With Python :

1. Write a program In Python calculate Simple Interest.
2. Write a python script, to display a poem 'Humpty Dumpty'.
3. Write a program to swap (interchange) two values without using third variable.
4. Write a program to find the area and circumference of a circle by using the given formulas.
Area of circle = $3.14 \times r^2$
Circumference of circle = $2 \times 3.14 \times r$
5. To write a user defined function to print a right angled triangle.
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6. Write python program that accepts marks in 5 subjects and outputs overage marks.
7. Write program to generate the table of a number using for loop.
8. Program to calculate and display the factorial of an inputted number.
9. Write a program to perform the following task according to users choice using menu.
 - a) Addition
 - b) Subtraction
 - c) Multiplication
 - d) Division
10. Write a program to display first n prime numbers.

Physical Education :

1. History
2. Latest general rules of Badminton
3. Important Tournaments
4. Sports Personalities
5. Fundamental skills of Badminton
6. Proper sports gears & their importance.
7. Specific exercise of warming up and conditioning.
8. Terminology related to Badminton
9. Common sport injuries & their preventions.
10. Sports awards.

Note : All the work should be done in scrapbook with photos.

Arts :

Projects :-

- **All are compulsory**
- 1) Make one project of Fabric Painting.
 - 2) Decorate one Pot with waste material.
 - 3) Make one P.O.P Mask and decorate with colour or Beads.
 - 4) Make one lamp with any material.
 - 5) Submit one Photograph of Any view or any theme on A4 print.
 - 6) Make ten tattoo designs on A3 sheet.
 - 7) Make two hand of mehandi design on A3 sheet with Black colour.
 - 8) Make one black and white illusion.
 - 9) Make one doodle design on A3 sheet.
 - 10) Make one scroll of 6 Sheets (vertical) (Paper Mural)
 - 11) Make one Poster on (Blood donation) (Education for every one)

Music

Definition & Introduction of all the mentioned things.

- i) Sangeet
- ii) Shruti
- iii) Naad
- iv) Dhvani