

# ARMY PUBLIC SCHOOL, JALANDHAR CANTT

## HOLIDAY HOMEWORK

### CLASS IX

#### ENGLISH

1. Complete the exercises given on page 118-134 of the Workbook.
2. Read part I and II of the novel Gulliver's Travels and write the character sketches of:  
Lemuel Gulliver  
Emperor of Lilliput  
King of Brobdingnag
3. Make a bookmark for the Text book. (2'x6')
4. Complete the following:  
Exercise B6, C8 of Unit 2 (Adventure)  
Exercise B4 of Unit (Environment)
5. Draw a poster on Energy Efficiency.

#### MATHEMATICS

1. Solve worksheets of chapters 1,2,3 and 13.
2. Make an assignment on solid figures of ch-13 (areas and volumes).

#### Foundation of Information Technology

##### Q1. Create a table in Ms –Word with following features

- Picture
- Symbols
- Subscripting, superscripting
- Borders/Table Design

- Merge Cell
- Text Alignment

**Q2. Use the Smart Art feature in Ms-Word to prepare a chart on any topic.**

ਪੰਜਾਬੀ

- (ੳ) ‘ਸਫ਼ਾਈ ਦੀ ਮਹੱਤਤਾ’ ਉੱਤੇ ਪੋਸਟਰ ਬਣਾਓ।
- (ਅ) ਤੁਹਾਡੇ ਚਾਚੇ ਦਾ ਮੁੰਡਾ ਵਿਦੇਸ਼ ਜਾ ਕੇ ਉੱਥੇ ਵਿਆਹ ਕਰਵਾ ਚੁੱਕਾ ਹੈ। ਪਰ ਉਹ ਭਾਰਤ ਆ ਕੇ ਦਾਜ ਲਈ ਇਕ ਹੋਰ ਕੁੜੀ ਨਾਲ ਵਿਆਹ ਕਰਵਾ ਉਣਾ ਚਾਹੁੰਦਾ ਹੈ। ਤੁਸੀਂ ਉਸ ਨੂੰ ਇੰਜ ਕਰਨ ਤੋਂ ਰੋਕਣ ਲਈ ਇਕ ਪੱਤਰ ਲਿਖੋ।
- (ੲ) ਵਿਦੇਸ਼ਾਂ ਵਿੱਚ ਜਾਣਦਾ ਰੁਝਾਣ ਕਿਉਂ ਵੱਧ ਰਿਹਾ ਹੈ? **200** ਸ਼ਬਦਾਂ ਵਿੱਚ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।
- (ਸ) ਸਵੈਚਿਤ (ਆਪਣੀ ਲਿਖੀ ਹੋਈ) – ਛੋਟੀ ਕਹਾਣੀ ਜਾਂ ਕਵਿਤਾ
- (ਹ) ਟਰਮ ਵਨ ਦੀ ਵਿਆਕਰਨ ਯਾਦ ਕਰੋ।
- (ਕ) ਮਿੱਠੀ ਬਾਣੀ ਸਭ ਨਾਂ ਨੂੰ ਕਾਬੂ ਵਿੱਚ ਕਰ ਲੈਂਦੀ ਹੈ ਤੇ ਸੁੱਖਸ਼ਾਂਤੀ ਦਾ ਆਧਾਰ ਹੁਮਦਿ ਹੈ। ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।

## SOCIAL SCIENCE

- 1) Prepare a project report of 10-15 pages on any of the human made/ natural disaster with reference to case study covering the introduction, causes, effect and safety measures.
- 2) Practice map work of Ch-1 and 2 of geography in the regular notebook.
- 3) Prepare ch-1 of history and ch-1 of geography for periodic test.

## SCIENCE

### BIOLOGY

Answers need to be answered after reading the chapter “tissues” from the book

Q1. Briefly describe the following

- a. Ligament b. tendon c. Neuron

Q2. What is apical meristem? Where is it located and what are its function?

Q3. Give an example of fluid connective tissue? What are its composition and functions?

Q4. What is cartilage and how is it different from bone?

Q5. What is connective tissue? List its different types. Give the characteristics of bone.

Q6. Which tissue makes up the husk of coconut?

Q7. Name the various elements of phloem and xylem respectively. State their function in the plant.

Q8. Where is areolar connective tissue found and state its function?

Q9. Diagrammatically show the difference between the three types of muscle fibres.

Q10. Draw detailed diagram of a neuron and what is its function?

Q11. What is the function of collenchymas in plants?

Q12. Make a model on any of the following:-

- a. Plant cell / animal cell
- b. Structure of neuron
- c. Various types of simple tissues / complex tissues (xylem and phloem) refer pg no 71 and 73 from book.
- d. Different types of epithelial tissues.

## CHEMISTRY

1. Define the following terms:-

- I. Matter
- II. Diffusion
- III. Kinetic energy
- IV. Fluidity
- V. Rigidity
- VI. Density
- VII. Compressibility
- VIII. Aquatic animals
- IX. Pressure
- X. Melting
- XI. Melting point
- XII. Boiling
- XIII. Boiling point
- XIV. Fusion
- XV. Latent heat of vaporization
- XVI. Latent heat of fusion
- XVII. Sublimation

- XVIII.   Liquification
- XIX.    Dry ice
- XX.     Solidification
- XXI.    Condensation
- XXII.   Humidity
- XXIII.   Porous material

2. Mention the activities to show;-

- I.    Particles of matter have space between them
- II.   Particles of matter are continuously moving
- III.  Particles of matter attract each other

3. What is full form of :-

- I.    L.P.G
- II.   C.N.G

4. Write differences between:-

- I.    Solids, Liquids and Gases.
- II.   Boiling and evaporation

5. Draw figs showing:-

- I.    Process of sublimation
- II.   Interconversion of states of matter
- III.  By applying pressure particles of matter can be brought closer.

6. What is the colour and chemical formulae of:-

- I.    Potassium permanganate
- II.   Copper sulphate

7. What are three states of matter?

8. What are characteristics of three states of matter?

9. Why does smell of hot food reaches us several meters away but to get smell of cold food we have to smell it from close?

10. What happens when a solid is heated?

11. What happens when a liquid is heated?

12. During melting and boiling why the temperature reading does not rise for some time?

13. Where is this heat going?

14. What is melting point of ice in Celsius and Kelvin?

15. What is boiling point of water in Celsius and Kelvin?
16. Which produces more severe burns water at 100 degree Celsius or steam at the same temperature? Why?
17. Name some substances which show sublimation.
18. What is dry ice? Why it is called so?
19. How can we liquefy gases?
20. Do gases dissolve in water? Name two such gases. What is the advantage of this phenomenon?

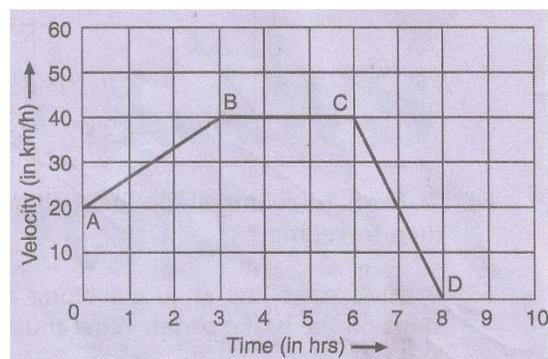
### TASK-2

Make a project file or presentation showing

- I. At least five applications of evaporation in day to day life.
- II. Any five methods of separation of components of a mixture.

### PHYSICS

1. Change the speed of 6 m/s into km/h and cm/s .
2. A body goes around the earth with constant speed in circular orbit. Is the motion uniform or accelerated?
3. Bus X travels a distance of 360 km into 5 hrs and bus Y travels a distance of 476 km in 7 hrs. Which bus travels faster?
4. A motorcyclist start from rest and reaches a speed of 6 m/s after travelling with uniform acceleration for 3 s. what is his acceleration?
5. A bus travelling at 20 m/s is subjected to a steady deceleration of  $5 \text{ m/s}^2$ , how long will it take to come to rest?
6. A body is moving along a circular path of radius R. what will be the distance travelled and displacement of body when it completes half a revolution?
7. Describe the motion of body which is accelerating at a constant rate of  $10 \text{ m/s}^2$ . if a body starts from rest, how much distance will it cover in 2s?
8. Given below is the velocity – time graph for a moving body:
  - (a) velocity of body at point C.
  - (b) Acceleration acting on the body between A and B.
  - (c) Acceleration acting on the body between B and C.
9. A cheetah starts from rest , and accelerates at  $2 \text{ m/s}^2$  for 10 s. calculate :
  - (a) The final velocity
  - (b) The distance travelled.
- a. Draw velocity time graph and determine its type of motion:



Velocity (m/s)	0	5	10	15	20	25
Time (sec)	0	2	4	6	8	10

b.

Velocity	10	10	10	10	10	10
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(m/s)						
Time (sec)	0	2	4	6	8	10

c.

Velocity (m/s)	25	20	15	10	5	0
Time (sec)	0	2	4	6	8	10

### अवकाश कार्य

- 'ईमानदार व्यक्ति की आत्मकथा' तथा 'कामकाजी नारी का एक दिन' विषयों पर अनुच्छेद लिखिए।
- पत्र—
  1. पिताजी को पत्र लिख कर स्पष्ट कीजिए कि इस वर्ष आप ग्रीष्मावकाश में क्या करना चाहते हैं।
  2. अपने छोटे भाई को पत्र लिखकर वरिष्ठ नागरिकों के प्रति सम्मान और सद्व्यवहार की सीख दीजिए।
- पाँच सुलेख लिखिए।
- पाँच भारतीय ऐवरेस्ट पर्वतारोहियों के बारे में जानकारी एकत्रित कर सचित्र उत्तर पुस्तिका में लिखिए।