

# **HOLIDAYS' HOMEWORK [2019-20]**

## **CLASS – IX**

**The School will reopen on 26.06.2019**

Dear Students ,

Enjoy your holidays! Summer Vacation is the best time for recreation. Try to utilize your time. Spend some time in reading story books, newspapers and watching interesting and informative programmes. Do the given homework neatly & present it well.

**ENGLISH : Do the given work in Writing Skill Note Book (Register) :**

- (a) Write five quotes on "Environment" and "Sports & Games". (b) Write Biography of Dr. A.P.J. Abdul Kalam. (c) Write an article on the topic : Books – Our Best Companions (d) Write the meaning of following phrasal verbs / idioms and make sentences : (1) once in a blue moon (2) fish out of water (3) In hot water (4) neck and neck (5) keep your eye on the ball (6) the ball is in your court (7) let down (8) break the ice (9) build castle in the air (10) speak your mind (11) slipped my mind (12) in the same boat. (e) Revise the work done in the class.

**HINDI : (1)** अपनी व्याकरण पुस्तक से अपठित गद्यांश पृष्ठ संख्या 26 पर दो गद्यांशधारित प्रश्नोत्तर एवम् पृष्ठ संख्या 50 , 51 पर दो अपठित काव्यांश पढ़कर प्रश्नों के उत्तर अपनी व्याकरण पुस्तिका कॉपी में लिखो।

(2) संवाद लिखो – (क) ताजमहल की सैर को लेकर दो मित्रों के बीच संवाद लिखो। (ख) अपने जन्मदिन पर आमंत्रित करते हुए एक मित्र को दूसरे मित्र से बातचीत पर संवाद लिखो। (3) निम्न पर 250–300 शब्दों में निबंध लिखो – (क) समय का महत्व (ख) मेरा भारत महान (4) कोई दो विज्ञापन समाचार पत्र से देखकर बनाइए। (5) संत कबीर , रहीम या तुलसीदास द्वारा रचित कोई आठ: दोहे अर्थ सहित A4 शीट पर लिखें एवं याद करें।

नोट – उपरोक्त प्रश्न – 1 से 4 तक के कार्य व्याकरण उत्तर पुस्तिका (कॉपी) पर करने हैं।

**SANSKRIT : (1)** शब्द रूप – लता , रमा, अस्मद् के लिखो व याद करो। (2) धातु रूप – कृ (पाँचों लकारों में) , अस् , पठ् (लोट् व विधिलिङ लकारों में) लिखो व याद करो। (3) अपठित गद्यांश संख्या – 1 , 2 , 3 को लिखकर उसके उत्तर लिखो। (4) चित्र संख्या – 1 , 2, 3 के चित्र चिपकाकर संस्कृत में पाँच वाक्य लिखो। (5) शब्द कोष (सचित्र) A4 sheet पर बनाओ।

नोट – उपरोक्त 1 से 4 तक सभी कार्य व्याकरण उत्तर पुस्तिका (कॉपी) में करो।

**SCIENCE : Do the given question on A4 size sheets :**

- Q1.** Draw labelled diagram of the following (any four) : (a) Inter conversion of the three states of matter. (b) Separation of immiscible liquids. (c) Plant Cell (d) Animal Cell (e) Types of Muscles fibres (f) Neuron **Q2.** Do Activity 8.9 & 8.10 (Ch. – 8 Motion) of NCERT. **Q3.** Draw graphs for following : (a) Distance – Time Graph - (i) Body at rest (ii) Uniform Motion **Q4.** Read Ch. – 1 ,2,5,6, and 8 thoroughly from NCERT. **Q5.** Answer the following questions : (i) Why are some substances found in the solid state, some in the liquid state and others in the gaseous state? (ii) Why doctors advise to put strips of Wet cloth on the forehead of a person having high fever? (iii) Differentiate between Boiling and Evaporation. (iv) Ice at 0°C appears colder to the mouth than water at 0°C. Why? (v) 2ml of Dettol is added to a beaker containing 500ml of water and stirred. State four observations that you make. (vi) Why do sclerenchyma cells have a narrow lumen? Where are these tissues present and why? (vii) Differentiate between Tracheid and Vessel. (viii) What is a meristematic tissue? State its different types & functions. (ix) Why is Parenchyma called a permanent tissue? Name two special types of parenchyma. Mention their specific roles in plants. (x) Differentiate between striated and unstriated muscles. (xi) Draw a velocity versus time graph of a stone thrown vertically

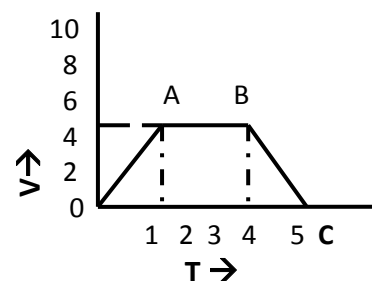
upwards and then coming downwards after attaining the maximum height. **(xii)**

Velocity – time graph for the motion

of a body is shown below :

**Answer the following questions :**

- (i) Which part of the graph show accelerated motion? Also calculate the acceleration?  
 (ii) Which part of the graph shows retarded motion? Also calculate the retardation.



(iii) Calculate the distance travelled by the body in first 4 seconds of the journey.

**(xiii)** An object starts linear motion with a velocity 'u' and under uniform acceleration 'a' it acquires a velocity 'v' in time 't'. Draw velocity – time graph. From this graph obtain the following equations : **(a)**  $v = u + at$  **(b)**  $s = ut + \frac{1}{2} at^2$  **(c)**  $v^2 - u^2 = 2as$  **(xiv)** Define Uniform circular motion. Is it an accelerated motion? If yes, what is the direction of the acceleration? Give an example of this type of motion. **(xv)** Name the physical quantities denoted by : **(a)** the slope of distance – time graph **(b)** the area under velocity time graph. **(c)** the slope of the velocity time graph.

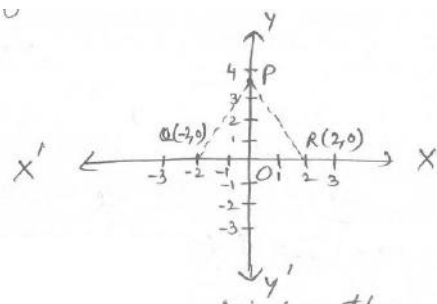
## MATHS : Do H.H.W. in Assignment Register.

### A. CHAPTER- 2 (POLYNOMIALS)

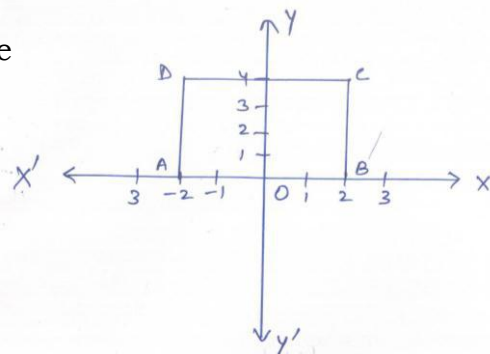
- Q1.** Find the value of  $a^3 - 8b^3 - 36ab - 216$  when  $a = 2b+6$ .  
**Q2.** If  $a + b + c = 9$  and  $ab + bc + ca = 26$ , find value of  $a^2 + b^2 + c^2$ .  
**Q3.** If  $x + \frac{1}{x} = 7$  find value of  $x^3 + \frac{1}{x^3}$ .  
**Q4.** If  $x^3 + mx^2 - x + 6$  has  $(x - 2)$  as a factor and leaves remainder n when divided by  $(x - 3)$  find the values of m and n.  
**Q5.** If  $ax^3 + bx^2 + x - 6$  has  $x+2$  as a factor and leaves remainder 4 when divided by  $x - 2$ , find the values of a and b.  
**Q6.** Simplify :  $\frac{(a^2-b^2)^2 + (b^2-c^2)^2 + (c^2-a^2)^2}{(a-b)^2 + (b-c)^2 + (c-a)^2}$   
**Q7.** Factorize :  
 (i)  $x^2 + 3\sqrt{3}x + 6$  (ii)  $2x^3 - x^2 - 13x - 6$   
 (iii)  $2x^2 + \frac{y^2}{49} + 3z^2 + 2\sqrt{6}zx - \frac{2\sqrt{3}}{7}yz - \frac{2\sqrt{2}}{7}xy$  (iv)  $2x^3 - 3x^2 - 17x + 30$   
 (v)  $x^2 + \frac{1}{x^2} + 2 - 2x - \frac{2}{x}$   
**Q8.** The polynomials  $ax^3 + 3x^2 - 3$  and  $2x^3 - 5x + a$  when divided by  $(x - 4)$ , leave remainder  $R_1$  and  $R_2$  resp. Find the value of 'a' if  $2R_1 - R_2 = 0$ .  
**Q9.** If  $P(x) = x^3 - x^2 + x + 1$  then find the value of  $\frac{P(1)+P(-1)}{2}$   
**Q10.** Find the value of P for which  $(x - 3)$  is a factor of polynomial  $p^2x^3 - px^2 + 3px - p$ .

### CHAPTER – 3 (CO-ORDINATE GEOMETRY)

- Q1.** Write the Co-ordinates of a point 'A' where perpendicular distance from x-axis is 5 units and perpendicular distance from y-axis is 3 units and the point lies in II quadrant. Write abscissa and ordinate of the point A.  
**Q2.** In the given figure , PQR is an equilateral triangle with co-ordinates of Q and R as  $(-2,0)$  and  $(2,0)$  respectively. Find the co-ordinates of the vertex P.



- Q3.** Plot the points A(-3,2), B(-5, -4), C (-2, - 4) and D (0,2). What figure do you get on joining the points in order?
- Q4.** Plot the points (-1,0) (1,0) (1,1) (0,2) and (-1,1). Join then in order. What figure do you get?
- Q5.** On Plotting the points O(0,0) A(5,0) B(5,6) and C(0, 6) the quadrilateral OABC is obtained. What type of quadrilateral OABC is?
- Q6.** Plot the points A (-3,2) B(-7,-3) C(6,-3), D(2,2) on Cartesian plane. Identify the figure obtained by joining these points. Also find its area.
- Q7.** Plot the points (-4,4) (-6,0) (-4,-4) and (-2, 0) on the graph. Identify the figure formed by joining these points. Also find its area.
- Q8.** In the given figure O is the midpoint of AB. Find the Co-ordinates of A, B, C and D. Identify the figure. Also find area of figure.



- Q9.** Write the mirror images of the following points with respect to x – axis and y –axis. (2,2) (-2,3) (3, -5) (-4,-3) (0,3) (0,-4) (-4,0) (2, 0)
- Q10.** Write the perpendicular distance of the following points from x – axis and y –axis. (3,2) (-3,3) (3, -6) (-4, -2) (0, 5) (0, -2) (-2, 0) (4,0)

**B. Make a beautiful folder and name it Portfolio and keep your Project & Formula sheet in it.**

**Project : Prepare the following projects on A4 size sheets according to Serial No. :**  
**S. No. 1 to 10 (I) , S. NO. 11 – 20(II) , S. No. 21 -30 (III) , 31 Onwards (IV)**

- I.**  $\pi$ - World's most mysterious number. Is  $\pi$  a rational or irrational number. Justify your answer with reason?
- II.** Prepare 5 mathematical crossword puzzle.
- III.** Construct square root spiral of  $\sqrt{8}, \sqrt{12}$  and give the explanation of the same.
- IV.** Search of various historical aspects of number and write development of number system with their needs.

**FORMULA SHEET : Write the formulas / Important Points/ Identities of Chapter 1 to 3 each on A4 size sheet.**

**SOCIAL SCIENCE :** (1) Make a project on “Disaster Management”. It should include the following : Acknowledgement ; Content ; Introduction ; Topic – Earthquake , Landslide , Drought, Global Warming (any 1) [Its causes , Mitigation strategy, Effects , Preventive Measures], Bibliography] **Note : Project should be made on A4 size sheets in a folder or spiral.** (2) In map Book do the Pgs : 14, 15, 23, 24, 33, 34, 55, 57 (3) Collect the weather report of 15 days and do it on the A4 size sheets **OR** Make a poster on any one Topic : (a) River Pollution (b) Depletion of Forest and Ecological Imbalance (4) **Read the following chapters and make 15 objective type of Question of each in classwork :** Hist.- L – 1 , Geo.-L-1 , Eco L – 1 , Pol. Sci L – 2

**PERSONALITY DEVELOPMENT :** This year our school give the opportunities for student to serve for nation by their knowledge. We all know about “EACH ONE TEACH ONE” program. Let start with in Our real life :

**Instructions :** (a) Students will select one individual for activity and their age group should not less than 10 yrs. (b) The individual should belong to vulnerable groups meaning of vulnerable [The person aband from the society like child labour, maid's kid, maid, elderly , street children etc.] (c) Students will teach them for one month on regular bases. (d) Students will provide them elementary education (basic education). (e)

Students will not only focus their academy studies but as well as they also create co-curricular activities like sports, music, art , dance, craft etc. **(f)** For evidence students create notebooks with date wise and click the pictures with their individuals. **(g)** Student you should also think or made a layout about a game which related by education but it will be based on fun by education.

## **SUBJECT : PHYSICAL EDUCATION**

**Project : Make a project on : (4 pages)**

Helping homeless children or Swachh Bharat Swachh Vidyalaya

**Activity :**

1. Do 15 minutes jogging daily for warm up your body.
2. Do 15 Aerobics exercise for good health.
3. Exercises : “Neck , Hand , Leg”
4. Stretching : “Leg , Thigh , Waist”
5. **Yoga : Practice the following Yogasanas :**

### **Halasana**

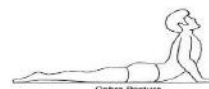
**Benefits : (a)** It helps excretory system starts working efficiently and Blood Circulation remains appropriate.



### **Bhujangasana**

**Benefits : (a)** It cures the diseases of liver.

**(b)** It cures the disorder of urinary bladder.



### **Vajrasana**

**Benefits : (a)** It helps to improve concentration and enhances memory power.

### **Ardhrachakrasana**

**Benefits : (a)** It helps to make ankles , thigh , shoulder , chest , spine , abdomen stronger.



**“Keep calm and stay healthy”**

## **DRAWING :**

**Art : Draw and colour : (i) Landscape (Pg. 30) (ii) Birds (Pg. 39)**

**Craft : Make A3 size Designer Envelope from handmade or pastel sheets OR Make useful 3D Craft from waste C.D.**

## **WORK EDUCATION**

1. Prepare any one painting for Drawing room.

### **Do in Work Education Folder. (ANY ONE)**

- (i) An introduction to the FoxPro (Introduction to DBMS, Features of FoxPro, Database Creation, Adding Records, Opening & Closing Tables) (3 Pages)
- (ii) Identification of Seasonal Flowers and Seeds of seasonal flowers. (2 Pages)

**I.T. :** Create a Document (3-4 pages) “Input & Output Devices”.

**ECO-CLUB :** Without the involvement of younger generation in the conservation of local bio-diversity we can't achieve the aim of environment conservation. Form a group of your friends and take care of any park near your home plant saplings , water them , maintain cleanliness in the park. Your such action will encourage others too. Take pictures and make a collage.