# O.P Jindal School, Savitri Nagar, TamnarSummer Holiday Homework: 2023-24 

## Class - IX

| $\begin{aligned} & \text { S.No } \\ & 1 . \end{aligned}$ | Subject <br> ENGLISH | Do the given Homework in A4 size paper and submit. <br> (1) Read the Newspaper (English) daily and write only one news article in 20-30 words under the given headings - National/ International - Science, Literature, Sports, Glamour, Business. <br> (2) Read the Editorial column in a Newspaper in English (daily). <br> (3) Find and write a minimum of 40 Verbs \& 40 Adjectives, and their meaning in your Homework Assignment File. <br> (4) Prepare a write-up in 100 to 150 words on how did you spend your Summer Vacation. <br> (5) Refer to a dictionary and write the full forms of a minimum of 20 abbreviations used in the dictionary. Eg. Fem-feminine, prep-prepositions. |
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| 2. | Hindi | 1 हिंदी के अखबार का पठन और पाँच मुख्य समाचार को ए-4 साईज पेपर में लिखेंगे। <br> 2 फणीश्वर नाथ 'रेणु' जी की लाल पान की बेगम,संवदिया और पंचलैट को खोजकर पढ़िए। <br> 3 बिहारी,केशवदास,भूषण और रत्नाकर, इन कवियों की कुछ काव्य पंक्तियों का संकलन कर उनमें निहित अलंकारों <br> की पहचान कीजिए। <br> 4 सोने से पूर्व अपने दिनभर के अनुभवों को ड़ायरी शैली में लिखिए। |
| 3. | Sanskrit | 1) सं. व्या. *पाठ - 6*, ( शब्दरूप - प्रकरणम् ) बालकः, कवि:, साधु:, पितृ, अस्मद् और ( किम् शब्दरूप, तीनों लिंगों मे ) <br> 2) सं. व्या. *पाठ-7*, ( धातुरूप - प्रकरणम् ) पठ् , गम् , वद् , भू , कीड् , नी , दृश् , अस् , और सेव् धातु ( सभी धातुओं को पाँचों लकारों मे ) <br> 3) सं. व्या. *पाठ-10*, ( संख्याः ज्ञानम् ) (1-100) कंठस्थ करना है। \# *उपरोक्त सभी कार्य संस्कृत कॉपी में लिखकर कंठस्थ करना है*। <br> 4) *शेमुषी* पाठ्यपुस्तक से <br> पाठ-5 (सूक्तिमौक्तिकम् ) के ल्नोकों को कंठस्थ करना है। <br> 5) *अभ्यासार्थ*- अपठित गद्यांश: , पत्रलेखनम्, चित्रवर्णनम् और अनुवाद के लिए कार्यपत्रक दिया जाएगा। |
| 4. | Maths | P*Learn the tables up to 30 . <br> *Practice 5 questions daily by NCERT and R. S Aggrawal. <br> *Solve the worksheet on A4 sheet paper. <br> Choose the correct answer. <br> Q1. When $21 \sqrt{15}$ is divided by $3 \sqrt{3}$, find the quotient. <br> a) $3 \sqrt{5}$ <br> b) $7 \sqrt{3}$ <br> c) $7 \sqrt{5}$ <br> d) $5 \sqrt{3}$ <br> Q2. Can we write 0 in the form of $\mathrm{p} / \mathrm{q}$ ? <br> a) Yes <br> b) No <br> c) Cannot be explained <br> d) None of the above <br> Q3. In between any two numbers, there are: |



## Physics

| 5. | Science | Physics <br> 1.A ball is thrown vertically upwards from the ground from point A upto highest point B at a height 20 m. After reaching highest point it returns to the same point A. Find the net displacement and distance travelled by the ball? <br> 2. (i) When displacement becomes equal to distance? <br> (ii) A person is walking on square track of side 60 m . Calculate the distance and displacement after completing ten and half rotation. <br> 3. A body is moving with a uniform velocity of $10 \mathrm{~m} / \mathrm{s}$. What will be the velocity after 20s ? <br> 4. (a) Identify the kind of motion in the following cases: <br> (i) A car moving with constant speed turning around a curve. <br> (ii) An electron orbiting around nucleus. <br> (b) An artificial satellite is moving in a circular orbit of radius $36,000 \mathrm{~km}$. Calculate its speed if it takes 24 hours to revolve around the earth. <br> 5. (a) Define average speed. <br> (b) A bus travels a distance of 120 km with a speed of $40 \mathrm{~km} / \mathrm{h}$ and returns with a speed of $30 \mathrm{~km} / \mathrm{h}$. Calculate the average speed for the entire journey. <br> 6. A car travels from stop A to stop B with a speed of $30 \mathrm{~km} / \mathrm{h}$ and then returns back to A with a speed of $50 \mathrm{~km} / \mathrm{h}$. Find <br> (i) displacement of the car. <br> (ii) distance travelled by the car. <br> (iii) average speed of the car. <br> 7. (a) Define uniform acceleration. What is the acceleration of a body moving with uniform velocity? <br> (b) A particle moves over three quarters of a circle of radius $r$. What is the magnitude of its displacement? <br> 8. A bus accelerates uniformly from $54 \mathrm{~km} / \mathrm{h}$ to $72 \mathrm{~km} / \mathrm{h}$ in 10 seconds Calculate <br> (i) acceleration in $\mathrm{m} / \mathrm{s} 2$ <br> (ii) distance covered by the bus in metres during this interval. <br> Chemistry <br> 1.Write difference between three states of matter in tabular form. <br> 2.It is a hot summer day, Priyanshi and Ali are wearing cotton and nylon clothes respectively. Who do you think would be more comfortable and why? <br> 3. You want to wear your favourite shirt to a party, but the problem is that it is still wet after a wash. What steps would you take to dry it <br> 4. Comment on the following statements:- <br> (a) Evaporation produces cooling. <br> (b) Rate of evaporation of an aqueous solution decreases with increase in humidity. <br> (c) Sponge though compressible is a solid. <br> 5. Why does the temperature of a substance remain constant during its melting point or boiling point? <br> Biology <br> 1. Why are lysosomes known as‘suicide-bags' of a cell? <br> 2. Do you agree that "A cell is a building unit of an organism". If yes, explain why? <br> 3. Why is endocytosis found in animals only? <br> 4.Name any cell organelle which is non membranous. <br> 5. What is Cell theory? <br> 6.Draw well labeled diagram of plant cell and animal cell. |
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|  | Social <br> Science | Time calculation (Note Book) <br> Q1. What is the local time at a place A $80^{\circ} \mathrm{E}$, when it is 10:00 a.m. local time at a place B $40^{\circ} \mathrm{W}$ ? <br> Q2. What will be the local time at Dacca $90^{\circ} \mathrm{E}$ longitude when it is noon at Greenwich? <br> Q3. Find out the location of place a where local time is 11:00 a.m. while the local time of place be situated at $20^{\circ}$ east longitude is $10 \mathrm{a} . \mathrm{m}$. <br> Q4. When it is noon at Cairo $30^{\circ} \mathrm{E}$ the local time at New York $75^{\circ} \mathrm{W}$ is 5.00 a.m. <br> Q5. The longitude of New York is $74^{\circ}$ West and that Bombay is $20^{\circ}$ east .what will be the local time at Bombay ,when it is $4: 00$ p.m. at New York. |

$\left.\begin{array}{|l|l|l|}\hline \text { Map work:- } \\ \text { 1. Draw a labelled diagram of different Physical features of India.(Chat paper) } \\ \text { Project work:- } \\ \text { Q. Visitor a nearest village and take a interview of farmers on following topics:- } \\ \text { 1. Production of grain } \\ \text { 2. Modern method of farming } \\ \text { 3. Impact of weather on crop production. } \\ \text { 4. Marketing strategy of selling crops. } \\ \text { 5. Types of soil \& vegetation. } \\ \text { 6. Sources of livelihood in the village. } \\ \text { History:- } \\ \text { Presence of Hitler in second world war (250 word war) }\end{array}\right]$

