



# DELHI PUBLIC SCHOOL, BULANDSHAHR



Session: 2024 - 25

## Holiday Homework

### CLASS IX

S.No.	Subject	Content
1	Social Science	<p>Prepare a project file on any ONE Topic from the following given topics:</p> <ol style="list-style-type: none"><li>1. Types of Natural Vegetation</li><li>2. Analysis of Lok Sabha Election 2024</li><li>3. Strategies for Sustainable Agriculture and Rural Development</li></ol> <p>The project file should include the following:</p> <ol style="list-style-type: none"><li>i. Certificate</li><li>ii. Acknowledgement</li><li>iii. Index</li><li>iv. Content- 10 pages</li><li>v. Bibliography (Reference)</li></ol> <p>Note: 1. Content should be handwritten. 2. Only related images should be pasted in the printed form. 3. Cover page of the project file should be attractive.</p>
2	Maths	<ol style="list-style-type: none"><li>1. Do square root spiral activity.</li><li>2. Show value of pi is 3.14 by taking different circles and relation <math>\pi = \frac{c}{d}</math></li><li>3. Take any five points A, B, C, D and E. Plot these points on cartesian plane write their coordinates. Mark their images A', B', C' D' and E' respectively with respect to x-axis and their images A'', B'', C'' D'' and E'' respectively with respect to y-axis.</li><li>4. On A4 sheets write contribution of two Indian mathematicians of modern era in about 300-350 words.</li></ol>

3

Science

Chemistry

1. Prepare a ppt on States of Matter.
2. Frame 5 MCQs on States of Matter.
3. Write a short note on Regelation by giving examples in real life.
4. Prepare an infographic on relationship between viscosity and diffusion.
5. Mention the contributions of Satyendra Nath Bose in the field of Chemistry.

**Physics-**

6. A body travels a distance of 3 km towards East, then 4 km towards North and finally 9 km towards East.

(i) What is the total distance travelled ?

(ii) What is the resultant displacement ?

7. A moving train is brought to rest within 20 seconds by applying brakes. Find the initial velocity, if the retardation due to brakes is  $2 \text{ m s}^{-2}$ .

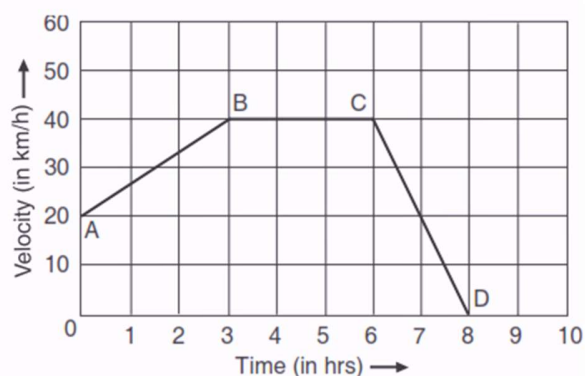
8. Given alongside is the velocity-time graph for a moving body ...

**Find :**

(i) Velocity of the body at point C.

(ii) Acceleration acting on the body between A and B.

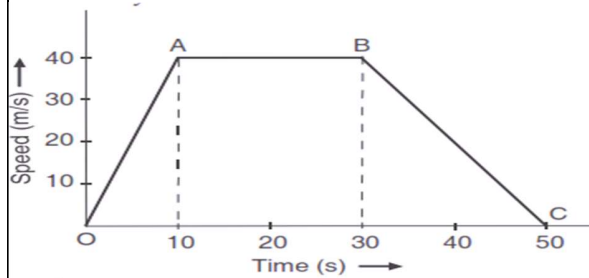
(iii) Acceleration acting on the body between B and C.



9. Study the speed-time graph of a car given alongside and answer the following questions

...

- (i) What type of motion is represented by OA ?
- (ii) What type of motion is represented by AB ?
- (iii) What type of motion is represented by BC ?
- (iv) What is the acceleration of car from O to A ?
- (v) What is the acceleration of car from A to B ?
- (vi) What is the retardation of car from B to C ?



10. Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 10 minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed time. state whether this motion is uniform or non- uniform?

**BIOLOGY-**

1. Draw neat labelled diagram of

- (i) Plant and animal cell.
- (ii) Compound microscope.

2. Give difference between the following

- (i) Prokaryotic and Eukaryotic cell
- (ii) Plant and animal cell
- (iii) Cell wall and Cell membrane.
- (iv) Plasmolysis and De-plasmolysis

3. The following experiment is to be written in the practical file.

- (i) To prepare a stained mount of (a) onion peel
- (b) human cheek cell and to record the observations and draw the labelled diagrams.

		4. Construct a 3D model of a plant or animal cell using material of your choice ( clay / cardboard)
4	English	<p><b><u>1. Book Review</u></b></p> <ul style="list-style-type: none"> <li>● <b><u>HOW TO DO ?</u></b></li> </ul> <p>Read any book of your interest in English Language and write a detailed review for the same. You may include the following questions to write your review:</p> <ul style="list-style-type: none"> <li>● What is the story about and how does the plot develop?</li> <li>● Are the characters believable?</li> <li>● How does the story cue particular reactions on the part of readers (language, Vocab, Dialogue Characterization, Climax etc.)?</li> <li>● Why does the book encourage such reactions?</li> <li>● Is the setting realistic or stylized?</li> <li>● What atmosphere does the setting suggest?</li> <li>● Do particular situation/dialogue or settings serve symbolic functions?</li> <li>● How do the characters serve their purpose?</li> <li>● What does their appearance reveal about their social standing, ethnicity, nationality, gender, or age?</li> <li>● Do characters use different languages? Do certain characters communicate through silence?</li> <li>● How does it shape our interpretation of the story? What effect the book may have on society.</li> </ul> <p><b>Where to do - In class notebook</b>  <b><i>PARAMETERS - Presentation, Authenticity, Relevance, Expression</i></b></p> <p><b><u>2. CREATIVE WRITING</u></b></p> <ul style="list-style-type: none"> <li>● <b><u>HOW TO DO</u></b></li> </ul> <p>Write an article on 'How I spent my Summer Vacation' in 180-200 words. You may add photographs.</p> <p><b>Where to do - In Class notebook</b>  <b><i>PARAMETERS-Presentation, Originality, Expression, Content</i></b></p> <p><b><u>3. AIL PROJECT</u></b></p> <p><b>(Separate instructions will be provided for the project).</b></p>

5	U/S/F/G/J/H	<p>1. ग्रीष्मावकाश में आपके द्वारा की गई किसी पर्यटन स्थल की यात्रा का वर्णन 100 शब्दों में कीजिए। यात्रा से संबंधित चित्र भी चिपकाएँ।</p> <p>2. प्रचंड गर्मी की ऋतु में जीव-जंतुओं के प्रति क्या हमारे कुछ कर्तव्य होते हैं ? गर्मी की ऋतु में हम जीव-जंतुओं का संरक्षण किस प्रकार करेंगे ? 100 शब्दों में लिखिए तथा संबंधित चित्र भी लगाएँ।</p> <p>3. सभी छात्र एवं छात्राएँ रहीम के कोई दो दोहे, जो आपकी पुस्तक में न हों, अर्थ सहित लिखकर कक्षा में सस्वर प्रस्तुति देंगे।</p> <p><b>नोट :- छात्रगण उक्त कार्य अपनी हिंदी की अभ्यास पुस्तिका में ही करेंगे।</b></p> <p>1- अव्ययशब्दानां प्रयोगं कृत्वा वाक्यानि रचयत , सम्बंधित-चित्रमपि रचयत ।</p> <p>2 - निम्नलिखित कृ, स्था, भू, अस् दा, क्षाल्,ज्ञा, धातुनां रूपाणि पञ्चलकारेषु लिखत स्मरत च ।</p> <p>3 – सर्वनामशब्दरूपाणि अस्मद्, युष्मद्, किम् , त्रिषु लकारेषु पितृ , राजन्, भवत् (पुलिंग, स्त्रीलिंग) रूपाणि लिखत स्मरत च। (समस्त कार्य एकस्मिन् फाइल मध्ये भवेत्।)</p> <p><b>French</b></p> <p>1-Trouvez des articles de journaux en anglais et traduisez-les en français.</p> <p>2- choisissez un écrivain du 19ème siècle et écrivez des ouvres significatifs et l'impact sur la société française.</p> <p>3-choisissez un livre qui vous intéresse et écrivez une revue en français.</p> <p>4- Écrivez deux nouveaux mots français chaque jour pendant les vacances et écrivez une phrase avec chaque mot.</p> <p>1. 日本 の ぶんか について 書いて ください。</p> <p>2. 日本 の おまつり について 書いて ください。</p> <p>3. 日本 の あにめ について 書いて ください。</p> <p><b>German</b></p> <p>Ferienhausaufgaben -</p>
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		<p>a. Sammle die Liste der regelmäßigen und unregelmäßigen Verben aus dem Buch "Beste Freunde". Schreibe ihre Perfect- und Präteritum-Formen.</p> <p>b. Schreibe die Liste der Präpositionen getrennt akkusativ und dativ von book- Beste Freunde.</p> <p>Urdu -</p> <p>(۱) نصاب میں شامل کنھیں دس شاعر و ادیب کی حیات و خدمات پر معرکین رنگین تصاویر ایک پروجیکٹ فائل بنائیے۔</p>
6	Information Technology	<p>1- Make a PPT showing showing various fields of IT and send it to your concerned subject teacher's E-mail address.</p> <p>2- create an Excel document showing 5 subjects marks of 20 students out of 100, find their total , percentage..Send the document to the E-mail id of your concerned subject teacher..</p> <p>3- Write about any four of your Strengths, Weaknesses, Abilities and interests in MS Word, decorate the document and send it to your concerned subject teacher's E-mail address..</p>