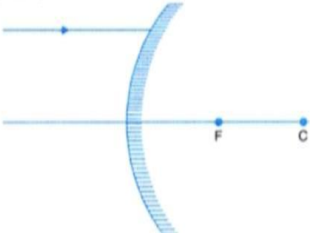




HOLIDAY HOMEWORK FOR SUMMER VACATION
SESSION 2025-26

CLASS-X		
SL.NO	SUBJECT	HOMEWORK
1.	ENGLISH	<p>1. Write catchy articles in 100-120 words on any two of the following topics: A) Stress management during preparation of exams. B) Social media: effects and ill effects. C) The deteriorating values in teens.</p> <p>2. Create interesting stories in 100-120 words on the following topics- A) Obesity and its effect (comedy) B) Malnutrition (tragedy)</p> <p>3. Make a catchy poster on any of the following topics- A) World Environment day. B) International yoga day.</p>
2.	HINDI	<p>१. मीठी वाणी बोलने से दूसरों को सुख और अपने मन को शीतलता कैसे प्राप्त होती है ? २ दीपक दिखाई देने पर अंधेरा कैसे मिट जाता है ? ३. ईश्वर कण-कण में है पर हम क्यों नहीं देख पाते ? ४ "युवा पीढ़ी के कर्तव्य" के बारे में निबंध लिखिए । ५. छोटी बहन के विवाह के शुभ अवसर पर अपने मित्र को बुलाने के लिए एक निमंत्रण पत्र लिखिए ।</p> <p>(व्याकरण विभाग)</p> <p>१. पद और पदबंध की परिभाषा लिखिए । २ पद के भेद तथा प्रकार के नाम लिखिए । ३. रचना के आधार पर वाक्य भेद की सभी भेदों का नाम तथा उदाहरण लिखिए ।</p>
3.	PHYSICS	<p>1-Draw ray diagrams to show the image formation by a concave mirror i) For an object placed at the focus (F). ii) For an object placed between centre of curvature (C) and focus (F)</p> <p>2-A 4 cm needle is placed 12cm away from a convex mirror of focal length 15 cm. Give the location of image and magnification. What happens to the image if the needle is moved further away from the mirror?</p> <p>3-A spherical mirror produces an image of magnification -1 on a screen placed at a distance of 50 cm from the mirror. (a) Write the type of mirror. (b) Find the distance of the image from the object. (c) What is the focal length of the mirror? (d) Draw the ray diagram to show the image formation in this case.</p> <p>4-An object 2 cm in size is placed 30 cm in front of a concave mirror of focal length 15 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? What will be the nature and the size of the image formed? Draw a ray diagram to show the formation of the image in this case.</p> <p>5-It is desired to obtain an erect image of an object, using a concave mirror of focal length 20cm . (i) What should be the range of distance of the object from the mirror? (ii) Will the image be bigger or smaller than the object? (iii) Draw a ray diagram to show the image formation in this case.</p>

		<p>6-List the sign conventions for reflection of light by spherical mirrors. Draw a diagram and apply these conventions in the determination of focal length of a spherical mirror which forms a three times magnified real image of an object placed 16 cm in front of it.</p> <p>7-An incident ray makes an angle 35° with the surface of a plane mirror. What is the angle of reflection?</p> <p>8-Name the spherical mirror which:</p> <p>(a) has a positive focal length</p> <p>(b) always forms a virtual image</p> <p>9-The outer surface of a hollow sphere of aluminium of radius 50 cm is to be used as a mirror. What will be the focal length of this mirror? Which type of spherical mirror will it provide?</p> <p>10-Redraw the diagram given below in your answer book and show the direction of the light ray after reflection from the mirror.</p>  <p>11-What is the nature of the image formed by a concave mirror if the magnification produced by the mirror is:</p> <p>(a) +3 (b) -1</p> <p>Predict the size of the image in both cases.</p> <p>12-Define the focus of a concave mirror. If the radius of curvature of a convex mirror is 30 cm, what would be its focal length?</p> <p>13-State and explain the laws of reflection of light with the help of a labeled ray diagram.</p> <p>14-List two possible ways in which a concave mirror can produce a magnified image of an object placed in front of it. State the difference, if any, between these two images.</p>
	<p>BIOLOGY</p>	<p>1. Out of a goat and a tiger, which one will have a longer small intestine? Justify your answer.</p> <p>2. State the events occurring during the process of photosynthesis. Is it essential that these steps take place one after the other immediately?</p> <p>3.The leaves of a plant were covered with aluminium foil, how would it affect the physiology of the plant?</p> <p>4.What is photosynthesis? Explain its mechanism.</p> <p>5. Draw a diagram of human alimentary canal and label – gall bladder, pancreas, liver and small intestine in it.</p> <p>6.(a) A gas is released during photosynthesis. Name the gas and also state the way by which the gas is evolved.</p> <p>(b) What are stomata? What governs the opening and closing of stomata?</p> <p>7.(i) Name the process and explain the type of nutrition found in green plants. List the raw materials required for this process. Give chemical equation for the mentioned process.</p> <p>(ii) Write three events that occur during this process</p>

4.	ECONOMICS	<ol style="list-style-type: none"> 1. What is the meaning of Development ? 2. How can we measure the development of different countries? 3. Frame competency based questions from inside the chapter. 4. "Different people have different goals." Justify the above statement.
5.	GEOGRAPHY	<ol style="list-style-type: none"> 1. Frame a minimum of 25 competency base questions from chapter 1 (Resources and Development). 2. Draft a detailed note on different land use categories. 3. Make a list of the following forests categories near you. <ol style="list-style-type: none"> (a) Reserve forests (b) Protected forests (c) Unclassed forest
6.	POLITICAL SCIENCE	<ol style="list-style-type: none"> 1. What is the role of the community government in Belgium. 2. How did the feeling of alienation develop among the Sri Lankan Tamils. 3. How were the reasons for the civil war in Sri Lanka. 4. Frame a minimum of 10 competency based questions from chapter 1: power sharing. 5. Make flow charts on power sharing with the case study of Belgium and Sri Lanka.
7.	HISTORY	<ol style="list-style-type: none"> 1. The changing status of women in 21st century-causes and effects. 2. Find out more about nationalist symbols in countries outside Europe. For one or two countries collect examples of picture, posters, poems, stories or music that are the symbol of nationalism. 3. Project work : compare the role of women in French Revolution and the Indian National Movement. 4. Role of women in India's Freedom struggle. Research and present the contributions of Sarojini Naidu, Aruna Asaf Ali and Kalpana Dutta 5. How did the Treaty of Versailles (1919) contribute to rise of Nazism in Germany.
8.	ODIA	<p>୧. ଚାରୁହାସମୟୀ, ଚାରୁ ଭାଷମୟୀ ବୋଲି କାହାକୁ କୁହାଯାଇଛି ?</p> <p>୨. ଉତ୍କଳ ଜନନୀଙ୍କ ଶରୀରକୁ କିଏ ଧୋଇ ଦେଉଛି ?</p> <p>୩. ସମୁଦ୍ରକୁଳ କେଉଁ କେଉଁ ବୃକ୍ଷ ବ୍ଯାପାରୀ ସୁଗୋଭିତ ?</p> <p>୪. ଉତ୍କଳର ଆକାଶ କାହାର କଳରବରେ ମୁଖରିତ ?</p> <p>୫. ପର୍ବତମାଳା ଗୁଡିକ ଉତ୍କଳ ଜନନୀଙ୍କ ଦେହରେ କିଭଳି ଶୋଭା ପାଉଛି ?</p> <p>୬. ଉତ୍କଳ ପବିତ୍ର କହିବାର ତାତ୍ପର୍ଯ୍ୟ କ'ଣ ?</p> <p>୭. ଶ୍ରେଷ୍ଠ କବିମାନେ କାହାର କୀର୍ତ୍ତି ବନ୍ଦନା କରୁଛନ୍ତି ?</p> <p>୮. ନିମ୍ନଲିଖିତ ଶବ୍ଦଗୁଡିକର ବିପରୀତାର୍ଥ ବୋଧକ ଶବ୍ଦ ଲେଖ । ଶୁଭ୍ର, ଘନ, ସୁନ୍ଦର, ପବିତ୍ର, ପୁଣ୍ୟ, ଦର୍ପିତ</p> <p>୯. ନିମ୍ନଲିଖିତ ଶବ୍ଦଗୁଡିକୁ ନେଇ ସାର୍ଥକ ବାକ୍ୟ ରଚନା କର । ବିଧୌତ, ସୁଗୋଭିତ, ଉତ୍କଳ, ପବିତ୍ର, ରାଜିତ, କଳକଳ, ଜ୍ଞାନ ବିଜ୍ଞାନ</p> <p>୧୦. ପ୍ରତ୍ୟେକର ଦୁଇଟି ଲେଖାଏଁ ପ୍ରତିଶବ୍ଦ ଲେଖ । ପକ୍ଷୋଧୀ, ତଟିନୀ, ଭୂଧର, ଉତ୍କଳ, ସମୀର, ଅରି,</p> <p>୧୧. ପ୍ରତ୍ୟେକ ଫଳାରୁ ୧୦ଟି ଲେଖାଏଁ ଶବ୍ଦ ସଂଗ୍ରହ କରି ଲେଖ ।</p> <p>୧୨. କାଳ୍ପକବି ଲକ୍ଷ୍ମୀକାନ୍ତ ମହାପାତ୍ରଙ୍କ ଜୀବନ ପରିଚୟ ଦଶଧାଡ଼ି ମଧ୍ୟରେ ଲେଖ ।</p> <p>୧୩. ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ ଯେକୌଣସି ଗୋଟିକ ବିଷୟରେ ପ୍ରବନ୍ଧ ଲେଖ । କ. ଗ୍ରୀଷ୍ମଋତୁ ଗ. ମୋ ଜନ୍ମଭୂମି ଓଡ଼ିଶା ଘ. ମୋ ଜୀବନର ଲକ୍ଷ୍ୟ</p>

9.	MATHS	<ol style="list-style-type: none"> 1. Prove that $\sqrt{2}, \sqrt{3}, \sqrt{5}, \sqrt{7}, \sqrt{11}, 5 - \sqrt{3}, 3\sqrt{2}, \frac{1}{\sqrt{2}}, 6 + \sqrt{2}$ are irrational. 2. Express 3825, 5005, 7429 as a product of its prime factors. 3. Check whether 6^n can end with the digit 0 for any natural number n. 4. Explain why $7 \times 11 \times 13 + 13$ and $7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5$ are composite numbers.
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