

BENEVOLENT GLOBAL PUBLIC SCHOOL

Saharsa Basti, Ward no.28, Saharsa.

Session 2024-2025

Holiday Assignment Class: X

(Note: attach separate sheet wherever necessary)

Complete all fair copies and Work book

➤ **SST**

1. Why is there a pressing need to use non-conventional sources of energy in India? Explain any three reasons?
2. Why are there a wide range of colours, hardness, crystal forms, luster and Density found in minerals?
3. Explain the use of petroleum as an energy resource and as an industrial raw Material?
4. Explain the idea of Satyagraha according to Gandhiji?
5. How had the First World War created a new economic situation in India? Explain with three examples?
6. Why did Gandhiji decide to launch a nationwide Satyagraha against the Proposed Row latt Act, 1919? How was it organized Explain?

➤ **Science**

1. Draw ray diagrams for concave mirror. (When object is placed different position from pole)
2. Draw ray diagrams for convex lens. When object is placed different position from optical centre.
3. Define refraction and its laws.
4. Define all terms of the spherical lens.
5. Write the properties of plane mirror and its uses.
6. Write uses of concave and convex mirror.
7. A pin which is 2cm long is placed at a distance of 16cm from a convex lens. Find the position, size and the nature of the image if the focal length of the lens is 12cm.

➤ **Math**

1. In ΔPQR , right - angled at Q, $PR + QR = 25\text{cm}$ and $PQ = 5\text{CM}$,
Determine the values of $\sin P$, $\cos P$ and $\tan P$
2. If $\tan A = \cot B$, prove that $A + B = 90^\circ$
3. If $\sec 4A = \operatorname{cosec} (A - 20)$, where $4A$ is an acute angle, find the value of A
4. Evaluate : $\frac{5\cos^2 60^\circ + 4\sin^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$
5. If $\tan (A + B) = \sqrt{3}$ and $\tan (A - B) = \frac{1}{\sqrt{3}}$ find A and B .
6. Prove that $-\frac{\tan\theta}{1-\cot\theta} + \frac{\cot\theta}{1-\tan\theta} = 1 + \sec\theta \operatorname{cosec}\theta$
7. Prove that $\frac{\cos A}{1+\sin A} + \frac{1+\sin A}{\cos A} = 2\sec A$
8. Prove that $\frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta} = \tan\theta$

➤ **English**

1. You had gone to Greece during the vacation. On your return, you write a letter to your friend describing the Skyros Island.
2. Based on the clues given below, write the letter in about 100 words.
Skyros - large island - in Greece - woods and cliffs - attract tourists - small shops display - local craft - delight to tourists - harmonious blend - ancient and modern brochure.
3. Taking information from the bullet points given below, write a paragraph in about 100 words describing the National Rail Museum for a tourist
 - Located in New Delhi
 - One of its own kind in Asia
 - Spread in 11 acre area
 - Showcase the rail history and heritage of India and its contribution to industrial and economic progress of the country.
Exhibits, models, records, photographs, coat of arms, documents on display
 - Working and still models, real locomotives and coaches, and a toy train - big attraction for children and grown ups

اردو - درجہ دسویں - class-10.

- سوال ۱ - اسماعیل میرٹھی کب پیدا ہوئے؟
- سوال ۲ - حمد کے لغوی معنی کیا ہے؟ اور حمد کسے کہتے ہیں؟
- سوال ۳ - چڑیا خد اکی تسبیح کیسے بیان کرتی ہیں؟

- سوال ۴
- | | |
|--|---------------------------------------|
| <input type="checkbox"/> صبحِ ایللا پے | <input type="checkbox"/> کانٹان لگائے |
| <input type="checkbox"/> قدرت | <input type="checkbox"/> خواہش |
| <input type="checkbox"/> کدرت | <input type="checkbox"/> خاموش |
| <input type="checkbox"/> ظلمت | <input type="checkbox"/> شعبہ |
| <input type="checkbox"/> زلمت | <input type="checkbox"/> شعبا |

سوال ۵ - عید الاضحیٰ کس نبیؐ کی یادگار میں منایا جاتا ہے اس نبی کا نام لکھے اور عید الاضحیٰ کے ایک معنوں بھی لکھے جو سوال الفاظ پر مشتمل ہو۔