



INDIAN SCHOOL

(RUN BY GYAN ASHA EDUCATIONAL SOCIETY)

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Diwali Vacation Homework

Class - XI

ENGLISH

Section - A (Grammar)

1. Asaf Khan who (1) _____ the expedition against the city, (2) _____ that the little country which (3) _____ by a woman would (4) _____ very easily without (5) _____ even a blow. It was to his surprise when he (6) _____ that the city (7) _____ to offer a strong resistance. He (8) _____ with him only a small force to fight the battle.

Options: had led / led / was leading / has led expected / has

been expecting / had expected / was expected ruled / was

ruled / is ruled / was ruling was taken / be taken / will be

taken / is taking striking/ is striking / has been striking / has

struck found / had found / finds / will find was preparing / is

preparing / was prepared / is prepared had brought /

brought / has brought / had been brought

Section - B (Writing)

1. Prepare a poster on behalf of the police advising people to protect themselves against burglars and robbers.
2. Prepare a poster to be put in the school entrance lobby announcing the Annual Athletic Meet of your school.
3. You are Vikram/Sonia, an Hon's graduate in history with specialization in Medieval India. You are well acquainted with places of historical interest in Delhi, Agra and Jaipur. You are looking for the job of tourist guide. Write an advertisement in about 50 words for the situations wanted column of a local newspaper. Your contact no. 999751234.

4. As Mukul / Mahima of Alps Public School, write a speech to be delivered in school assembly highlighting the importance of cleanliness suggesting that the state of cleanliness reflects the character of its citizens. (150-200 words)

Section - C (Literature)

Answer the following questions.

1. Everybody including the sparrows mourned the grandmother's death. Elaborate.
2. The sea 'appears to have changed less' in comparison to the three girls who enjoyed the sea holiday. Comment.
3. The children braved the situation more maturely than their years. Discuss. (We are Not Afraid to Die)
4. Nature echoed the unnatural happenings with King Tut's body. Comment.
5. How does the laburnum tree appear in September? Does the arrival of the goldfinch bring about a change in it?
6. Give examples to show why cousin Mourad was considered one of the craziest members of the narrator's family?
7. Of all the things I had to forget, that would be the easiest". What does the speaker mean by 'that'? What is its significance in the story? (Address)

PHYSICS

1. List all the formulas of chapter 4 (take help from page 84 of book)
2. Solve questions from 4.1 to 4.32 in subject notebook.

CHEMISTRY

Practical record on the followings:

1. Chemical Equilibrium - Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either of the ions.
2. Preparation of standard solution of Oxalic acid.
3. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.
4. Preparation of standard solution of Sodium carbonate.
5. Determination of one anion and one cation in a given salt Cation:
Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Zn²⁺, Mg²⁺, NH₄⁺
6. Anions:
(CO₃)²⁻, S²⁻, (SO₃)²⁻, (NO₂)⁻, (SO₄)²⁻

MATHEMATICS

1. In a triangle ABC, if $A = 75^\circ$ and $B = 45^\circ$ then $b+2c$ is equal to
 - a. a
 - b. $a+b+c$
 - c. $2a$
 - d. $-2(a+b+c)$
2. $\cot \theta = \sin 2\theta$ ($\theta \neq n\pi$, n integer) if θ equals
 - a. 90° only
 - b. 45° and 60°
 - c. 45° only
 - d. 45° and 90°
3. If the angles of a triangle ABC are in A.P., then
 - a. none of these
 - b. $C^2 = a^2 + b^2$
 - c. $a^2 + C^2 - ac = b^2$
 - d. $C^2 = a^2 + b^2 + ab$
4. In a triangle ABC, AD is the median A to BC, then its length is equal to
 - a. $\frac{b+c}{2}$
 - b. $\sqrt{b^2 + C^2 - a^2}$
 - c. $\sqrt{\frac{b^2 + c^2 - a^2}{2}}$
 - d. $\frac{1}{2}\sqrt{2(b^2 + C^2) - a^2}$
5. Fill in the blanks:
If $\sin \theta + \operatorname{cosec} \theta = 2$, then $\sin^2 \theta + \operatorname{cosec}^2 \theta =$ _____
6. Fill in the blanks:
The general solution for $\sec x = \sec(\pi + x)$ is _____.
7. Evaluate: $\cos(-870^\circ)$ _____
8. Express as a product: $\cos 4x + \cos 8x$
9. Find the degree corresponding to the radian measure $-2c$

10. Prove $\sin^2 6x - \sin^2 4x = \sin 2x \sin 10x$
11. Solve: $\tan x + \tan 2x + \tan 3x = 0$
12. If $\frac{ax}{\cos \theta} + \frac{by}{\sin \theta} = a^2 - b^2$ and, $\frac{ax \sin \theta}{\cos^2 \theta} - \frac{by \cos \theta}{\sin^2 \theta} = 0$, prove that $(ax)^2 + (by)^2 =$ _____
13. A horse is tied to a post by a rope. If the horse moves along a circular path always keeping the rope tight and describes 66m when it has traced out 45° at the centre, find the length of the rope.
14. Solve: $4 \sin x \cos x + 2 \sin x + 2 \cos x + 1 = 0$.

PHYSICAL EDUCATION

1. What is the need of sports competition in school? Discuss in detail.
2. Suggest one activity which helps to develop interest in Physical Education.
3. What is the role of school in encouraging participation of CWSN in PE?

COMPUTER SCIENCE

1. Construct a python program to get a number form the user and check whether it is positive, negative or zero integer.
2. Construct a program in python to get a number and check whether it is prime or not.
3. Construct a program to get the basic salary of an employee and calculate his da,hra,pf and gross salary on the basis of given formulae.
Da=30%of basic
Hra=25% of basic
Pf=12.5% of basic
Gross salary=basic +da+hra-pf
4. Construct a program to get the yearly sale of an employee and calculate his commission and salary.
5. Construct a program to get an year from the user and check whether the given year is a leap year or not.
 - The year which is divisible 4 is may be a leap year, if it is not a century.
 - The year which is a century must be divisible by 400.