



INDIAN SCHOOL

(RUN BY GYAN ASHA EDUCATIONAL SOCIETY)

CBSE AFFILIATION NO. 3330099

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NEAR S.E.C.L. OFFICE, KELOVIHAR, ATTARMUDA, RAIGARH(C.G.)

DIWALI VOCATION HOMEWORK

INSTRUCTIONS ---

1. FOR SCIENCE YOU HAVE TO WRITE IN YOUR LABMANUAL ACCORDINGLY
2. FOR REST OF THE SUBJECT YOU HAVE TO WRITE IN A FILE CONTAINING A4 SIZE PAPER
3. SUBMISSION DATE IS 2/11/2022

SUBJECT - SCIENCE (Submission date 2 November 2022)

SECTION A (PHYSICS)

Verification of the Laws of reflection of sound.

2. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.

3. Establishing the relation between the loss in weight of a solid when fully immersed in

a) Tap water

b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.

Section B (Chemistry)

Preparation of

a) A mixture

b) A compound

using iron filings and sulphur powder and distinguishing between these on the basis of:

(i) appearance, i.e., homogeneity and heterogeneity

(ii) behaviour towards a magnet

(iii) behaviour towards carbon disulphide as a solvent

(iv) effect of heat

3. Perform the following reactions and classify them as physical or chemical changes: Unit-I

a) Iron with copper sulphate solution in water

- b) Burning of magnesium ribbon in air
- c) Zinc with dilute sulphuric acid
- d) Heating of copper sulphate crystals
- e) Sodium sulphate with barium chloride in the form of their solutions in water

Section – C (Biology)

1. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.
2. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams.
3. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).

SUBJECT – HINDI submission date (2 November 2022)

1. पाँच महाकवि का जीवन परिचय सचित्र वर्णन करेंगे ।

SUBJECT – SOCIAL SCIENCE (2 November 2022)

Economics

1. "poverty is a curse upon humanity " Explain this statement.
2. What can be the consequences of poverty?
3. What are the social and economical factors through which poverty is looked upon?

GROGRAPHY

1. what are the factors that affect the climate of india?
2. Explain the variations of climatic conditions with the help of exaples.
3. Why the climate type of India is considered as monsoon?

D/POL

Ch 4 Electoral Politics

Hist

Ch 3 Nazism and the rise of Hitler

Read and learn all questions dictated in the class.

SUBJECT – ENGLISH (Submission date 2 November 2022)

Answer these following questions within 30 words

A. 1. For she was changed to a bird.' Who was she and why was she changed to a bird?

2. What is a ballad? Is this poem a ballad?

3. What was the impact of World War II faced by Rameswaram?

4. What is the Seeta Rama Kalyanam ceremony and what did A.P.J Abdul Kalam's family use to do?

5. Who was Saint Peter and what did he use to do?

6. Why did the cakes look too small when she ate them herself and why did they look too large to give them away?

Section - B (Grammar)

B. Reported Speech

1. Johnny said, 'I like to play.'

2. Johnny said, 'I was playing this game when Mohan came home.'

3. Nagesh said, 'The sun rises in the east.'

Section - C. (Writing skills)

1. You attended a webinar hosted by your favourite writer. Write a diary entry describing the event and the speaker.

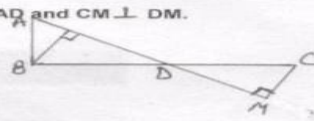
2. You met your old friend in the market today after five years. Write a diary entry expressing your thoughts and emotions on the meeting.

SUBJECT – MATHS (submission date 2 November 2022)

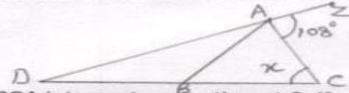
CONGRUENT TRIANGLES

VERY SHORT ANSWER TYPE QUESTIONS

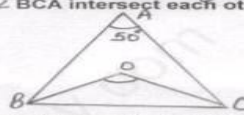
Q.1 In the given $\triangle ABC$, AD is the median, $BL \perp AD$ and $CM \perp DM$. Prove that $BL = CM$.



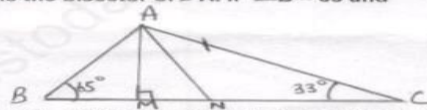
Q.2 In the given figure, AB divides $\angle DAC$ in the ratio $1:3$ and $AB = DB$. Determine the value of x .



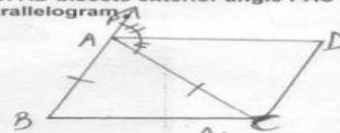
Q.3 In the given figure, bisectors of $\angle ABC$ and $\angle BCA$ intersect each other at O . If $\angle BAC = 50^\circ$, Find $\angle BOC$.



Q.4 In the given figure, $AM \perp BC$ and AN is the bisector of $\angle A$. If $\angle B = 65^\circ$ and $\angle C = 33^\circ$, find $\angle MAN$.



Q.5 ABC is an isosceles triangle with $AB = AC$. AD bisects exterior angle PAC and $CD \parallel BA$. Prove that (i) $\angle DAC = \angle BCA$ (ii) $ABCD$ is a parallelogram.

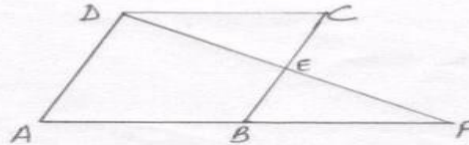


SHORT ANSWER TYPE QUESTIONS

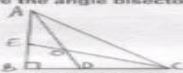
Q.6 In the given figure, $\angle B = \angle E$, $BD = CE$ and $\angle 1 = \angle 2$. Show that $\triangle ABC \cong \triangle AED$.



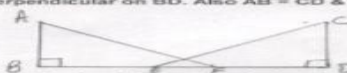
Q.7 $ABCD$ is a parallelogram and E is the midpoint of side BC . DE and AB on producing meet at F . Prove that $AF = 2AB$.



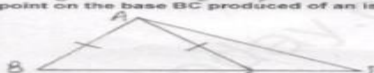
Q.8 In the given figure, AD and CE are the angle bisectors of $\angle A$ and $\angle C$, respectively. If $\angle ABC = 90^\circ$, then find $\angle AOC$.



Q.9 In the given figure, AB & CD are perpendicular on BD . Also $AB = CD$ & $AF = CE$, prove that $BE = FD$.



Q.10 In the given figure, D is any point on the base BC produced of an isosceles $\triangle ABC$. Prove that $AD > AB$.

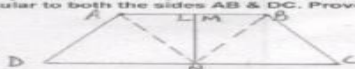


Q.11 In the given figure, $AB > AC$. Show that $AB > AD$.



LONG ANSWER TYPE QUESTIONS

Q.12 Line segment joining the mid points M & N of parallel sides AB and DC , respectively of a trapezium $ABCD$ is perpendicular to both the sides AD & BC . Prove that $AD = BC$.



Q.13 In the given figure, $ABCD$ is a square and EF is parallel to diagonal BD and $EM = FM$. Prove that
(i) $DF = BE$
(ii) AM bisects $\angle BAD$



SUBJECT – COMPUTER (submission – 2 November 2022)

1. Define spread sheet and the terms related to spread sheet
A Work book. D. Label box
B. Active Cell E. Cell Reference
C Formulae bar F. Function
2. Draw the layout of excel window and label the components.
3. Write a formulae to calculate the followings of 5 different information's
1. Write the formulae for cell D2

	A	B	C	D	E	F
1	First no	Second no	Max	Min		
2						

2. Write the formulae for cell D2; E2; F2

	A	B	C	D	E	F
1	Product	Qty	Unit Price	Payment	Disc(%)	Payment
2						

3. Write the formulae for cell C2; D2

	A	B	C	D	E	F
1	Length	Breadth	Area	Perimeter		
2						

4. Fill 5 records and construct bar chart and pi chart for the table.

	A	B	C	D	E	F
1	Roll	Name	English	Hindi	Maths	Science
2						