



INDIAN SCHOOL, RAIGARH

WORKSHEET-2022-23

CLASS X

ENGLISH

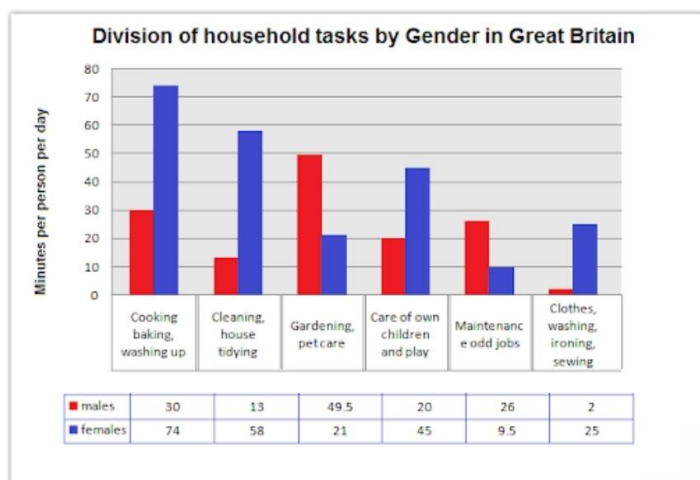
Section - A (Grammar)

A . Reported Speech

1. He said, "I like the book."
2. He said to me, "Do you like the book?"
3. She said, "Mahesh will be reading a book."
4. He said to me, "May you live long!"

Section - B. (Writing)

1. As head of the music department of your school, write a letter to Hyderabad Music House, placing an order for some music instruments like Sitar, Harmonium, Tabla, Tanpura and Guitar. You are Anvita/Anil of DIPS School, Rohini, New Delhi.
2. You are awaiting your class X results. Meanwhile you would like to do a short-term course in personality development. Write a letter to the Director, Personal Care, Pune, inquiring about the details about the course. You are Akash/Akansha of 250, Shivaji Road, Pune.
3. The chart shows the division of household tasks by gender in Great Britain. Write an analytical paragraph describing the chart given in not more than 200 words.



Section - C (Literature)

C. Answer these following questions.

1. Why is it important for everyone to experience loss and to stand up after it?
2. Loss is an essential and significant experience of one's life. Explain.
or,
It's often been said that you learn more from losing than you do from winning. You learn a lot from a loss. It really gets your attention and it really motivates. Described.
3. Why is it important for everyone to experience loss and to stand up after it?
4. Why does Anne Frank think that 'paper' has more patience than 'people'?
5. Describe about Anne Frank's early education.
6. From the diary of Anne Frank' throws light on teacher-student relationship, class atmosphere and discipline.
Write a paragraph on the values of these aspects of school and how far these values are necessary for learning and life.
7. Do you consider Amanda's mother to be a nagging mother?
8. Discuss the importance of proper upbringing with reference to the poem Amanda by Robin Klein.
9. State the key points in the poem Amanda. What do you learn from it?
10. Humour is the best medicine for every ailment in life'. Comment. (How To Tell Wild Animals)

(Submission date: 28/10/22)

HINDI

तीन वीरांगना और दो वीरों की कथाएँ सचित्र वर्णन करके लाएंगे।

(Submission date: 30/10/22)

SCIENCE

1. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with:
 - a) Litmus solution (Blue/Red)
 - b) Zinc metal
 - c) Solid sodium carbonate
2. Performing and observing the following reactions and classifying them into:
 - A. Combination reaction
 - B. Decomposition reaction
 - C. Displacement reaction
 - D. Double displacement reaction
 - (i) Action of water on quicklime
 - (ii) Action of heat on ferrous sulphate crystals
 - (iii) Iron nails kept in copper sulphate solution

(iv) Reaction between sodium sulphate and barium chloride solutions
3. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:

i) $\text{ZnSO}_4(\text{aq})$

ii) $\text{FeSO}_4(\text{aq})$

iii) $\text{CuSO}_4(\text{aq})$

iv) $\text{Al}_2(\text{SO}_4)_3(\text{aq})$

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

SECTION – B (BIOLOGY)

Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.

Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

SECTION C (PHYSICS)

1. Determination of the focal length of: Unit-III (i) Concave mirror (ii) Convex lens by obtaining the image of a distant object.

2. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

3. Tracing the path of the rays of light through a glass prism.

(Submission date: 05/10/22)

SOCIAL SCIENCE

Geography

What are minerals?

What is the importance of minerals in human life?

Write the classification of minerals.

How different types of minerals are formed?

Economics

What do you understand by globalisation?

“The impact of globalisation has not been uniform.” Explain this statement.

What is the difference between investment and foreign investment?

What do you “Globalisation and greater competition among producers has been of advantageous To consumers.” Justify the statement with examples.

Why do MNCs set up their offices and factories in those regions where they get cheap labour and other resources?

History

- 1. Describe the centers of world trade before and after the eighteenth century.**
- 2. What were Com Laws ? Why were these laws abolished ? How did the abolition of ‘Com Laws’ affect the people of England ?**
- 3. Explain major features of global agricultural economy that had taken shape towards the close of 19th century.**

D/Pol

- 1 Function of political parties.**
- 2 How political party becomes National political parties?**
- 3 Political parties and their main ideologies.**

COMPUTER PROJECT

- 1. Define HTML and Structural tag.**
- 2. Write the html program for the following layout.**
Generate a table 3*3 and display 9 different figures in it.
- 3. Generate a program to link first.html with second.html and vice versa.**
- 4. Define the tags and attributes used for creating a list with a proper example of it.**
- 5. Define linking and its types with an example.**
 - a. Internal linking**
 - b. External linking**
 - c. Global linking**

MATHS

CLASS: X

Submission date: 1 NOV 2022,. (Note: Solve worksheet on maths vacation homework copy)

1. If $\cot\theta = 15/8$, evaluate $\frac{(2 + 2\sin\theta)(1 - \sin\theta)}{(1 + \cos\theta)(2 - 2\cos\theta)}$
2. If $7\sin^2\theta + 3\cos^2\theta = 4$, show that $\tan\theta = 1/\sqrt{3}$
3. Evaluate: $\tan^2 60^\circ - 2\cos^2 60^\circ - \frac{3}{4}\sin^2 45^\circ - 4\sin^2 30^\circ$
4. Evaluate: $\sqrt{2}\tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$
5. If $\sec^2\theta (1+\sin\theta) (1-\sin\theta) = k$, find the value of k
6. Evaluate: $(\sin 90^\circ + \cos 45^\circ + \cos 60^\circ)(\cos 0^\circ - \sin 45^\circ + \sin 30^\circ)$
7. If $\sin(A + B) = 1$, $\cos(A - B) = 1$, find A and B
8. Find the acute angles A and B, $A > B$, if $\sin(A + 2B) = \sqrt{3}/2$ and $\cos(A + 4B) = 0$
9. Evaluate: $\sec(90 - \theta)\operatorname{cosec}\theta - \tan(90 - \theta)\cot\theta + \frac{\cos^2 35^\circ + \cos^2 55^\circ}{\tan 5^\circ \tan 15^\circ \tan 45^\circ \tan 75^\circ \tan 85^\circ}$
10. If $\sin A - \cos B = 0$, prove that $A + B = 90^\circ$
11. If $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta} = \frac{5}{3}$, evaluate $\frac{7\tan\theta + 2}{2\tan\theta + 7}$
12. If A, B and C are interior angles of triangle ABC, show that $\cos\left\{\frac{B+C}{2}\right\} = \sin\frac{A}{2}$
13. If $x = a \sin\theta$, $y = b \tan\theta$. Prove that $\frac{a^2}{x^2} - \frac{b^2}{y^2} = 1$
14. Prove that: $\frac{1}{1 + \sin\theta} + \frac{1}{1 - \sin\theta} = 2 \sec^2\theta$
15. Prove that: $\frac{\sin\theta}{1 + \cos\theta} + \frac{1 + \cos\theta}{\sin\theta}$

