

HOLIDAY HOMEWORK (2023-24)

GRADE IX

ENGLISH

1. Select any three poems from your syllabus, detect the poetic devices used in them. Prepare a creative mind map/ Graphic designer including the definitions and examples you can use pictures to illustrate them.

Note

Given below is the list of literary devices that can be used for reference.

Similar, Metaphor, Personification, Alliteration, Repetition, Oxymoron, Onomatopoeia

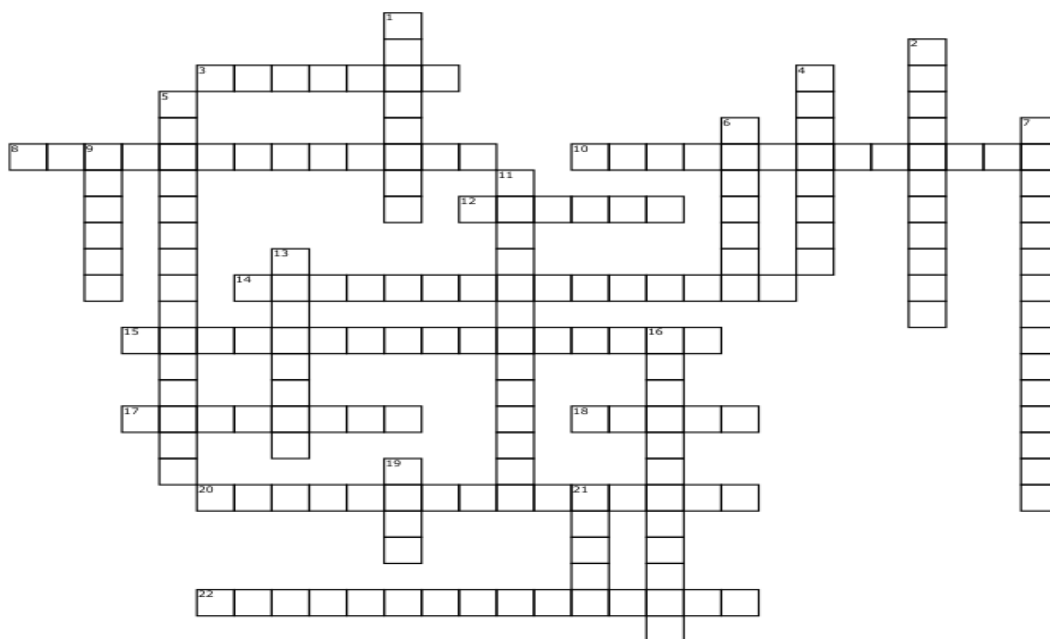
Rubrics for Assessment

1. Presentation (2) 2.Content (2) 3. Originality (2)

SCIENCE

PHYSICS

1. Explore various application of ultrasound and write a short note on each.
2. Observe various energy transformation taking place in your home and write it in notebook
3. Solve the crossword puzzle



Across

- 3.** The measurement of the object is 9.8 m/s on earth
8. Energy that an object has due to its motion
10. Equal forces acting on an object in opposite directions
12. The force of gravity on an object at the surface of a planet
14. If one object exerts a force on another object, then the second object exerts a force of equal strength in the opposite direction on the first object.
15. Acceleration depends on the objects mass and on the netforce acting on the object.
17. The force that one surface exerts on another when the two surfaces rub against each other

- 18.** The distance an object travels per unit of time
20. Forces that produce a nonzero net force, which changes an objects motion
22. Unit of measurement for speed
Down
1. The overall force on an object when all the individual forces acting on it are added together
2. The name often given to the force exerted by the first object on a second object
4. The product of an objects mass and velocity
5. Stored energy that results from the position or shape of an object, this is usually at its highest at the highest point of a roller coaster
6. The tendency of an object to resist any change in its motion

- 7.** An object at rest will remain at rest, and an object moving at a constant velocity will continue moving at a constant velocity, unless it is acted upon by an unbalanced force. Another name is Law of Inertia
9. Force is measured in this unit
11. The name often given to the force exerted by the second object back on the first object
13. Speed in a given direction
16. The rate at which velocity changes
19. the quantity of matter that a body contains
21. A push or pull exerted on an object

Chemistry

1. Draw the diagram for Rutherford alpha scattering experiment on an A3 size sheet.
2. Unscramble the following words.

Atomic Structure

1. UELSCUN _____
2. OTPRNO _____
3. OETSOISP _____
4. MSSA UNERMB _____
5. GOURND TSETA _____
6. CLERONET FIGTNCRAOOINU _____
7. ALITBRO _____
8. CIAMTO MBUENR _____
9. TONNERU _____
10. EERGNY SLEVEL _____
11. ELRNCTEO _____
12. EOLTNCER UDOCL _____
13. OHJN LDAOTN _____
14. OEMSRTCUIUD _____
15. LTRESTIAO _____
16. THOOMSN _____
17. DETRHURORF _____

2. Paste the pictures of mixtures and compounds present in your home.
3. Write molecular formula of following
 - a) Sodium chloride
 - b) Caustic Soda
 - c) Baking soda
 - d) Washing soda
 - e) Quick lime

BIOLOGY

1. Types of natural resources
2. Analysis of conservation of natural resources
3. 5 R principle of natural resources
4. Why do we need to conserve natural resources?
5. Use of forest
6. Conservation of wildlife
7. Dam –advantages and disadvantages
8. Water harvesting

Assessment will be based on the following parameters/Rubrics

1. Content knowledge -4 marks
2. Presentation/ Organisation -2 marks
3. Timely submission- 2 marks
4. Creativity-2 marks

MATHEMATICS

I. Choose any 6 countries from the G-20 including India. Draw a double bar graph depicting the share of seats in parliament (male v/s female) with reference to the above selected countries.

You can refer to the link below for the same.

<https://data.worldbank.org/indicator/SG.GEN.PARL.ZS?locations=JP>

II. Solve the NCERT Exemplar problems of chapter Statistics and Surface area and volumes you can use below link to get problems.

<https://ncert.nic.in/exemplar-problems.php?ln=en>

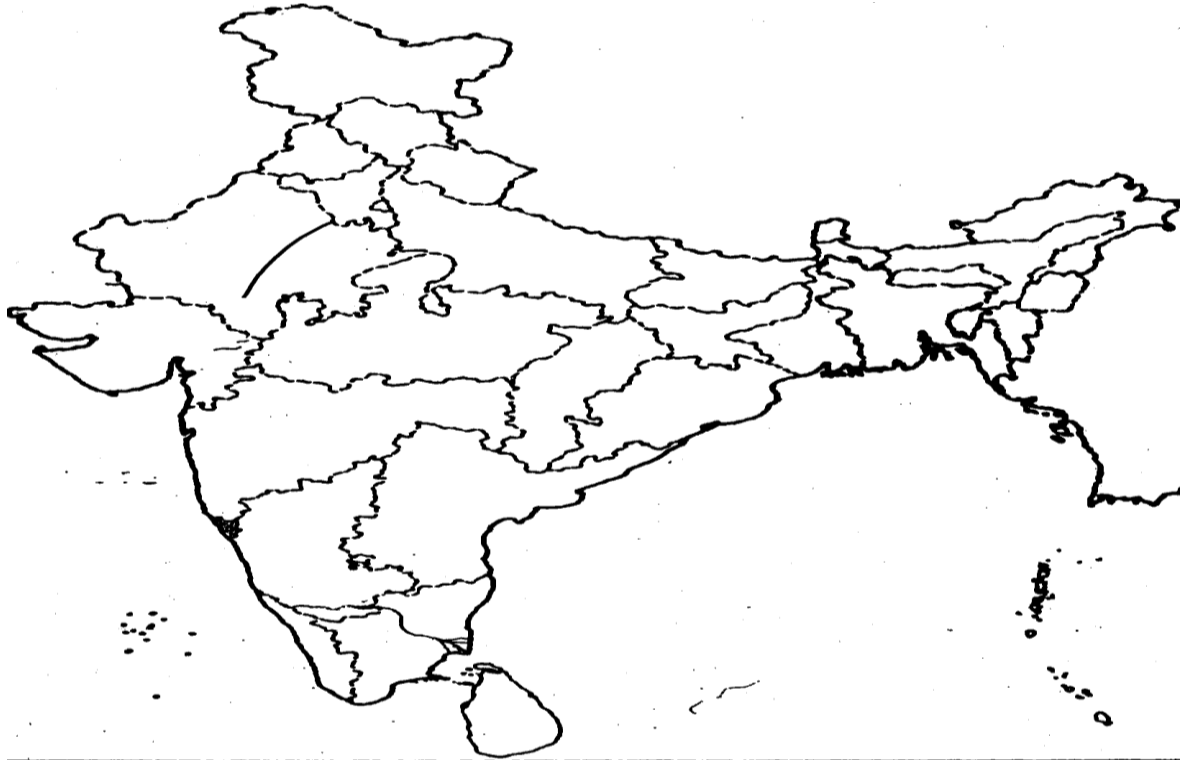
SOCIAL SCIENCE

I Complete the following questions in your Notebook

- Q1. Why did Weimar Republic set up in Germany after the first world war become unpopular? Give three reasons.
- Q2. Explain any three main features of Stalin's collectivization programme.
- Q3. Explain any three effects of Nazism on the school system?

II. Locate and label the following on the same political outline map of India.

- (a) A mountain range
(b) An important river of South India.
(c) Mount K2
(d) Tropic of Cancer



III. This cartoon was titled 'Building Democracy' and was first published in a Latin American Publication. Understand cartoon carefully and write answers of following questions.

- (i) What do money bags signify here?
(ii) Could this cartoon be applied to India?

IV. This cartoon is from Brazil, a country that has long experience of dictatorship. It is entitled "The Hidden Side of Dictatorship". Understand cartoon carefully and write answers of following questions

(i) Which hidden sides does this cartoon depict?
(ii) Is it necessary for every dictatorship to have a hidden side?
(iii) Find this out the dictators discussed in the first chapter and, if possible, about Abacha in Nigeria and Marcos in the Philippines.



HINDI

प्रश्न 1:- 'मेघ आए' कविता को ध्यान में रखते हुए ग्रामीण सभ्यता को प्रदर्शित करती कुछ सांस्कृतिक गतिविधियों को चित्रात्मक रूप में प्रस्तुत करते हुए काव्य में निहित काव्य - अलंकारों पर भी प्रकाश डालें।

प्रश्न 2:- ' बच्चे काम पर जा रहे हैं ' -- कविता में छोटे बच्चों का अपनी दैनिक आवश्यकताओं की पूर्ति हेतु काम पर जाने को एक सामाजिक विडंबना कहकर संबोधित किया है। एक विद्यार्थी होने के नाते समाज को इस कुरीति से निजात दिलवाने में आप क्या योगदान दे सकते हैं ? ---- किए जा सकने वाले योगदान को सूचीबद्ध करते हुए एक क्रियाकलाप द्वारा प्रस्तुत कीजिए।

INFORMATION TECHNOLOGY

Q1. Consider the following spreadsheet and answer the questions that follow (In Note Book).

	A	B	C	D	E
1	REGION	SALES 2008	SALES 2009	SALES 2010	SALES 2011
2	New Delhi	56	67	85	87
3	Mumbai	66	77	54	91
4	Chennai	74	85	67	77
5	Calcutta	75	65	47	63
6					

- Calculate the Total sale for the year 2008 in cell B6.
- Write formula/expression to find difference in sales of Mumbai and New Delhi for the year 2009 as sales of 2011 Delhi-sales of Mumbai in the cell C8.
- Write formula/expression to find the average sale of year 2010 in D6.
- Write expression to find the total sale for the year 2010 and 2011 in Mumbai in cell G3.

Q2. Given the following Spreadsheet, write the appropriate Formula/Expression/Function to be used for (In Note book).

	A	B	C	D	E
1	PLAYER ID	NAME	POINTS	BONUS	RANK
2					
3	101	Jaideep	1300	200	4
4	102	Ananya	1800	150	1
5	103	Mihir	1600	100	3

- Write the formula to calculate the Total points (points + bonus) in F2.
- Write the feature used for arranging the Rank from Highest to Lowest.
- To find the player with Maximum TOTAL to be written to Cell F7.
- To find the average of Points to be written in the cell C7.

Q3. Follow below steps and create formatted document in open office Writer. (In PC/Laptop)

- Create a document in Open office writer.
- Type an essay on the topic 'Pollution'.
- Insert page number as footer and 'Pollution' as header.
- Use autocorrect to correct the spelling mistakes.
- Insert suitable pictures and background of the page in the document.
- Use Wrap feature to wrap the text around the image.
- Save the document in .odt format and paste colour printout in notebook