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HOLIDAY HOMEWORK

CLASS XII C

SUBJECT- ENGLISH CORE

Section A- Unseen Passage

Q1. Read the passage given below:

I saw ‘Jaws’, the popular shark movie, the summer it came out, in 1975 and became paranoid about sharks. Though I kept swimming after Jaws, it was always with the vague fear that a shark’s teeth could tug on my leg at any moment. Never mind that there’d been only two shark bites since 1900 on the Connecticut coast, where I lived.

So, when I got this assignment for the National Geographic magazine, I decided to accept and do what I’d never wanted to do: swim with the sharks. I had to go to a place in the Bahamas known as Tiger Beach and dive with tiger sharks, the species responsible for more recorded attacks on humans than any shark except the great white. It was to be my first dive after getting certified—which meant it would be my first dive anywhere other than a swimming pool or a quarry—and without a diver’s cage. Most people who got wind of this plan thought I was either very brave or very stupid.

But I just wanted to puncture an illusion. The people who know sharks intimately tend to be the least afraid of them, and no one gets closer to sharks than divers. The divers who run operations at Tiger Beach speak lovingly of the tiger sharks the way people talk about their children or their pets. In their eyes, these sharks aren’t man-eaters any more than dogs are.

The business of puncturing illusions is never just black and white. My fellow divers had hundreds of dives under their belt and on the two-hour boat ride to the site in the morning of our first dive, they kept saying things like, “Seriously, I really can’t believe this is your first dive.” All this was okay with me until I reached the bottom and immediately had to fend off the first tiger shark, I had ever laid eyes on. However, when I watched the other divers feeding them fish and steering them gently, it became easy to see the sharks in a very benign light.

I think it would be unfair not to mention that though tiger sharks are apex predators. They act as a crucial balancing force in ocean ecosystems, constraining the numbers of animals like sea turtles and limit their behaviour by preventing them from overgrazing the sea grass beds. Furthermore, tiger sharks love warm water, they eat almost anything, have a huge litter and are the hardest shark species. If the planet and its oceans continue to warm, some species will be winners and others will be losers, and tiger sharks are likely to be winners.

Based on your understanding of the passage, answer all the questions given below.

1. Cite a point in evidence, from the text, to suggest that the writer's post-Jaws fear was not justified.

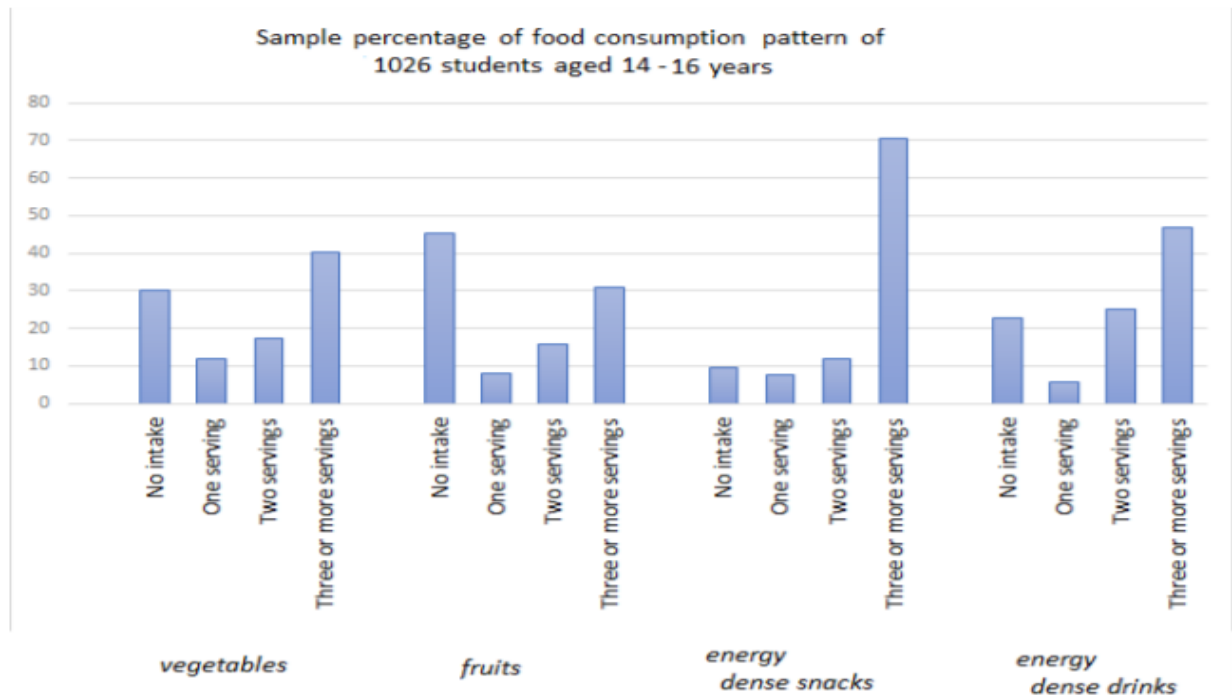
2. State any one trait of the writer that is evident from lines 5-10 and provide a reason for your choice.
3. People thought the writer was 'either brave or very stupid'. Why did some people think that he was 'very stupid'?
4. Why does the writer say that people who know sharks intimately tend to be least afraid of them?
5. Rewrite the given sentence by replacing the underlined phrase with another one, from lines 10 – 20.
Some academicians think that reward, as a form of discipline, is a simple right or wrong issue
6. What does the use of the phrase 'benign light' suggest in the context of the writer's viewpoint about the tiger sharks?
7. Select a suitable phrase from lines 15-25 to complete the following sentence appropriately.
I agree the team will find this experience tough, but competing will be easier next time after they get this tournament _____.
8. Apex predators serve to keep prey numbers in check. How can we say that tiger sharks are apex predators?
9. Analyse why having a large litter is one of the features that empowers tiger sharks to emerge winners if global warming persists.

Q2 Read the passage given below:

Changing food preferences have brought about rapid changes in the structure of the Indian diet. The rapid proliferation of multinational fastfood companies and the influence of Western culture have replaced traditional home-cooked meals with ready-to-eat, processed foods thus increasing the risk of chronic diseases in urban Indians. Therefore, nurturing healthy eating habits among Indians from an early age would help to reduce health risks.

To date, little is known about the quality and quantity of foods and beverages consumed by urban Indian adolescents. This lack of evidence is a significant barrier to the development of effective nutrition promotion and disease prevention measures. Therefore, a self-administered, semi-quantitative, 59-item meal-based food frequency questionnaire (FFQ) was developed to assess the dietary intake of adolescents. A total of 1026 students (aged 14–16 years) attending private, English-speaking schools in Kolkata completed the survey.

A sample percentage of the food consumption pattern is displayed (Fig. 1)



The survey results report poor food consumption patterns and highlights the need to design healthy eating initiatives. Interestingly, while there were no gender differences in the consumption of legumes and fried snacks, the survey found more females consumed cereals, vegetables and fruits than their male counterparts.

In conclusion, the report suggested that schools ought to incorporate food literacy concepts into their curriculum as they have the potential of increasing the fruit and vegetable intake in teenagers. Additionally, healthy school canteen policies with improved availability, accessibility, variety and affordability of healthy food choices would support the consumption of nutritious food in students.

Based on your understanding of the passage, answer ANY SIX out of the seven questions given below.

1. What does the researcher mean by 'changing food preferences'?
2. Why was this survey on the food consumption of adolescents undertaken?
3. With reference to fig.1, write one conclusion about students' consumption of energy-dense drinks.
4. What can be concluded by the 'no intake' data of fruit consumption versus energy dense snacks, with reference to fig.1?
5. There were no gender differences observed in the consumption of healthy foods, according to the survey. Substantiate.
6. Why is 'affordability' recommended as a significant feature of a school canteen policy?
7. Identify a word from lines 9 - 18 indicating that the questionnaire was specifically designed to be completed by a respondent without the intervention of the researcher collecting the data.

Section B - Notice Writing

Q1.

Due to a sudden landslide and inclement weather, St. Francis School, Vasco has to be closed for a week. As Principal of that school, draft notice in not more than 50 words to be displayed at the school main gate notice board.

Q2.

Your school has planned an excursion to Lonavala near Mumbai during the autumn holidays. Write a notice in not more than 50 words for your school notice board, giving detailed information and inviting the names of those who are desirous to join. Sign as Naresfy/Namita, Head Boy/Head Girl, D.V. English School, Thane, Mumbai.

Q3.

You are Anoop/Arya, the cultural secretary of your school. As part of the national heritage programme, the school has decided to put up a show on ancient art forms. Write a notice to be put up on the school notice board inviting students to watch the show and encourage the artists. Write the notice in not more than 50 words.

Q4.

Your state government has banned the use of plastic bags. You are Amarjeet, a reporter of The National Herald. Write a report in 100-125 words on how the ban is being ignored and what damage the indiscriminate use of plastic bags is causing to the environment.

Q5.

You visited a Job Fair organised by Ability Foundation at Chennai recently. You were impressed to see that nearly 55 companies from various sectors such as information technology, telecommunication, electronics etc. offered jobs to the final year students of colleges. As a reporter of 'The Deccan Times', Chennai, prepare a report in 100-125 words. You are Peeyush/Priya.

Q6.

You are Pulkil/Prema, a staff reporter of The Times of India. You have been asked to cover an incident of daylight robbery on the outskirts of Delhi when the inmates were present in the house. Write a report in 100-125 words.

POLITICAL SCIENCE PROJECT

Dear Students

- ❖ You are required to complete your Political Science Project during the summer break
- ❖ Project carries 20 Marks and is meant for both Internal and External evaluation.

GUIDELINES

1. The project has to be done Individually.
2. It should be a handwritten project on A4 size sheets (Practical file sheets)
3. Project should be summed up in 10-15 pages.
4. It should be well researched based on facts and figures and pictorial.
5. The project must have a table of contents, Title/ Cover page, Acknowledgement, Bibliography, Analysis with headings and subheadings.
6. It must include relevant news clippings, facts and figures, pictures.
7. Be creative in your presentation Style.
8. Do not make spelling mistakes.
9. NOTHING HAS TO BE COPIED FROM NCERT

Suggested topics- [Each student has to choose any one- No repetition of Topic will be allowed.

1. Making of a Nation : Role played by Sardar Vallabh Bhai Patel
2. Operation Desert Storm
3. Naxalism in India : History and Contemporary Challenges
4. Military Operations : A display of U.S. Hard Power
5. Terrorism : A new threat to the Contemporary World
6. Popular Movements : A reason to Hope
7. The era of emergency and its legacy
8. India and China - A struggle to dominate ASEAN
9. Anti- dam movements across India
10. 9/11- The Day The World Changed : An Infographic Presentation
11. NAM and its relevance in the post Cold War era.

- 12.The Politics Of Backwardness : Reservation Policy in India
- 13.NATO and its relevance
- 14.The power of political caricatures
- 15.Independence of Judiciary in India
- 16.Determinants of India's foreign policy
- 17.Global governance : The World Trade Organisation and its contribution
- 18.The pursuit of Kashmir
- 19.North Eastern Region : New gateway of India
- 20.Indian Judiciary at cross roads
- 21.Dimensions of hegemony
- 22.Partition as a literary paradigm
- 23.External balancing in India's China policy
- 24.Cartoons : A visual guide through Cold War
- 25.Indian Foreign Policy in the changing world
- 26.Ballot: An account of India's democratic strength
- 27.Right to Information Act : A democratic weapon
- 28.India's Security Strategy
- 29.Sino - Indian Relations : From conflict to collaboration
- 30.European Union : Past , Present and Future
- 31.From Hegemony to Balance of Power :Rise of New Centres of Power
- 32.The Global Nuclear -Non - Proliferation Paradigm and India
- 33.The Making of a Nation : A case of reluctant states-Kashmir and Hyderabad
- 34.Reforming United Nations : The Challenge of Relevance
- 35.Cold war- Is the world heading to Cold war 2- USA and China
- 36.China – The next Superpower
- 37.Post Soviet Republics- Life after Disintegration
38. Arab Spring
- 39.USA-Global War on Terror (Gulf War, Afghanistan War, Iraq Invasion)

- 40. New Centres of Power-ASEAN, BRICS, SAARC (any one)
- 41. EU- Brexit
- 42. UN and its agencies
- 43. Environment- Sustainable development- Need of the hour
- 44. Globalisation – Eco., Pol., and Cultural Impact on Third World
- 45. India's relation with its neighbours- any one country can be studied
- 46. Role of Regional Parties- A detailed study of any one
- 47. Indian Politics-Trends and developments- Study of UPA and NDA

❖ Any other topic based on the syllabus can be chosen

❖ I will be available for any suggestions, clarifications, please feel free to discuss with me.

Best wishes

GEOGRAPHY

General Instruction

i. Complete holiday homework in Geography notebook.

ii. Activity work do on A4 Sheet. (Paste world map on A4 sheet)

-
1. Give three reasons for the countries with low human development index value.
 2. What is human development? Explain the three indicators of human development.
 3. Explain the concept of Possibilism with suitable examples.
 4. 'Development is a qualitative change, which is always value positive.' Evaluate it citing suitable examples.
 5. Define neo-determinism and support your answer with the concept of traffic signal.
 6. Describe in brief the different trends of population growth in the world from early period to modern world.
 7. Write a brief account of growth of adolescent population and mention the problems of this population. What steps have been taken by the government?
 8. Study the data and answer the questions given below:

DECADAL GROWTH RATE (1901-2001)

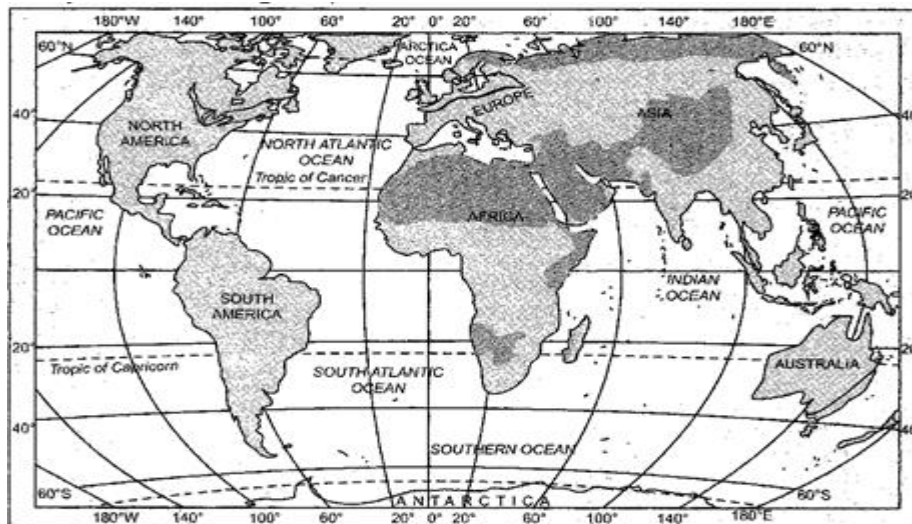
YEAR	GROWTH RATE (In percentage)
1901	—
1911	5.75
1921	(-) 0.31
1931	11.60
1941	14.22
1951	13.31
1961	21.51
1971	24.80
1981	24.66
1991	23.85
2001	21.54

- a) Define the term growth rate of population.
- b) Which decade shows a negative growth rate of population? What is the main reason for the decline in population during this period?
- c) Which decade is referred to as the period of population explosion?
- d) Why has the population growth declined in the last two decades? Give reasons.

9. Practice all the related diagrams and maps present in the book done till date.

10. Go through all the chapters and notes completed in the class.

11. Study the following map and on the basis of shaded areas, answer the following questions: -



- (i) Which economic activity is revealed by the shaded portion?
- (ii) What are the products of primary activities in this area?
- (iii) Which types of climatic conditions are present in this region?

ACTIVITY

12. Complete all Activity work in separate A4 sheet and A4 file. (Use only world Political Map and past on A4 Sheet).

- (i). Identify the areas on the World political map of the world where subsistence gathering are practised.
- (ii). Identify the areas on the political map of the world where nomadic herding are practised.
- (iii). Identify the areas on the political map of the world where commercial livestock rearing are practised.
- (iv). Identify the areas on the political map of the world where extensive commercial grain farming are practised.
- (v) Identify the areas on the political map of the world where mixed farming are practised.
- (vi) Identify the areas on the political map of the world where Mediterranean agriculture are practised.

ECONOMICS

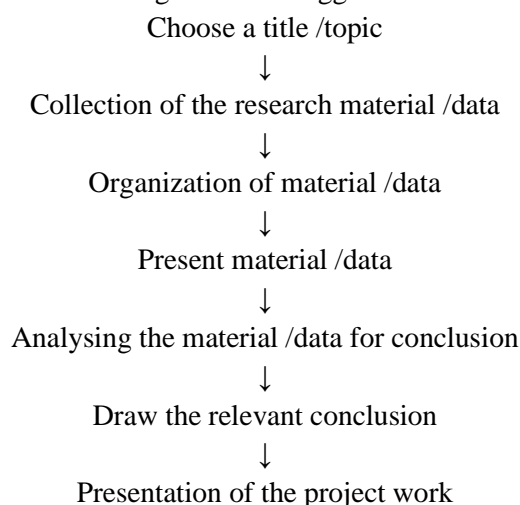
To prepare PROJECT REPORT as per the following guidelines :

The expectations of the project work are that :

- learners will complete only ONE project in each academic session .
- project should be of 3500-4000 words (excluding diagrams & graphs), preferably hand written.
- it will be an independent self directed piece of study.

Scope of the project :

Learners may work upon the following lines as a suggested flow chart :



Expected Checklist :

- Introduction of topic/title
- Identifying the causes , consequences and /or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short term and long term implications of economic strategies suggested in the course of research
- Validity & reliability ,appropriateness and relevance of data used for research work and for presentation in the project file.
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to ,in the file in footnotes ,resources section ,bibliography etc.
-

Mode of Presentation /Submission of the project :

At the end of the stipulated term ,each learner will present the research work in the Project file to the external and internal examiner .The questions should be asked from the Research Work /Project File of the learner .The Internal Examiner should ensure that the study submitted by the learner is his / her original work .In case of any doubt ,authenticity should be checked and verified .

Marking Scheme :

Marks are suggested to be given as –

S .No	Heading	Marks Allotted
1	Relevance of the topic	3
2	Knowledge /Content /Research work	6
3	Presentation Technique	3
4	Viva Voice	8
	Total	20 marks

ECONOMICS WORKSHEET –NATIONAL INCOME

1- Calculate a) Operating Surplus, and b) Domestic Income;

Items	₹ in Crore
i) Compensation of Employees	2,000
ii) Rent and interest	800
iii) Indirect Taxes	120
iv) Corporation tax	460
v) Consumption of fixed capital	100
vi) Subsidies	20
vii) Dividend	940
viii) Undistributed Profits	300
ix) Net Factor Income to abroad	150
x) Mixed Income	200

OS=2500 cr DI=4700 cr

2- Calculate National Income

Items	(₹ in crore)
i) Compensation of employees	2,000
ii) Profit	800
iii) Rent	300
iv) Interest	250
v) Mixed income of self employed	7000
vi) Net current transfers to abroad	200
vii) Net Exports	100
viii) Net indirect taxes	1,500
ix) Net Factor income to abroad	60
x) Consumption of fixed capital	120

NI=10290cr

3-Calculate NNPmp

Items	(₹ in thousand crore)
1. Compensation of Employees	250
2. Mixed income of self employed	600
3. Profit	80
4. Rent	30
5. Interest	40
6. Net factor income to abroad	10
7. Net exports	15
8. Consumption of fixed Capital	20

9. Net indirect taxes	10
10. Net current transfers to abroad	8

NNPmp =1020 thousand cr

4- Calculate National Income

Items	(Cr) s
1. Profit	1,000
2. Mixed Income of self employed	15,000
3. Dividends	200
4. Interest	400
5. Compensation of employees	7,000
6. Net factor income to abroad	100
7. consumption of fixed capital	400
8. Net exports	200
9. Net Indirect taxes	800
10. Net Current transfers to rest of the world	40
11. Rent	500

NI= 23800 Cr

5- Calculate GNPmp

Items	(₹ in Crore)
1. Mixed income of self Employed	8000
2. Depreciation	200
3. Profit	1000
4. Rent	600
5. Interest	700
6. Compensation of employees	3000
7. Net indirect taxes	500
8. Net factor income to abroad	60
9. Net exports	(-) 50
10. Net current transfers to abroad	20

GNPmp = 13,740 cr.

6- Calculate Domestic Income

Items	(₹ in crore)
1. Rent	200
2. Net Current transfers to abroad	10
3. National debt interest	60
4. Corporate tax	100
5. Compensation of employees	900
6. Current transfers to government	150
7. Interest	400
8. Undistributed Profits	50
9. Dividend	250
10. Net Factor income to abroad	10
11. Income accruing to government	120

Domestic Income = 1900 cr.

7- Calculate National Income

Items	(₹ in crore)
1. Wages and Salaries	1000
2. Net Current transfers to abroad	20
3. Net Factor income paid to abroad	10
4. Profit	400
5. National debt interest	120
6. Social security contributions by employers	100
7. Current transfers from government	60
8. National income accruing to government	150
9. Rent	200
10. Interest	300
11. Royalty	50

National Income = 2040 cr.

8- Calculate Operating Surplus

Items	(₹ in crore)
1. Compensation of employees	300
2. Indirect taxes	200
3. Consumption of fixed Capital	100
4. Subsidies	50
5. Gross Domestic Product at market price	600

Operating Surplus = 50 cr.

9- Calculate GNPmp

Items	(₹ in crore)
1. Mixed income of the self employed	800
2. Consumption of fixed capital	50
3. Wage and salaries	700
4. Compensation of employees from abroad	20
5. Rent on land	200
6. Royalty of sub soil assets	30
7. Interest paid by production units	150
8. Interest paid by consumers	100
9. Profits	300
10. Social security contribution by employers	100
11. Property and entrepreneurial income from abroad	20
12. Net indirect tax	200

GNPmp = 2530 cr.

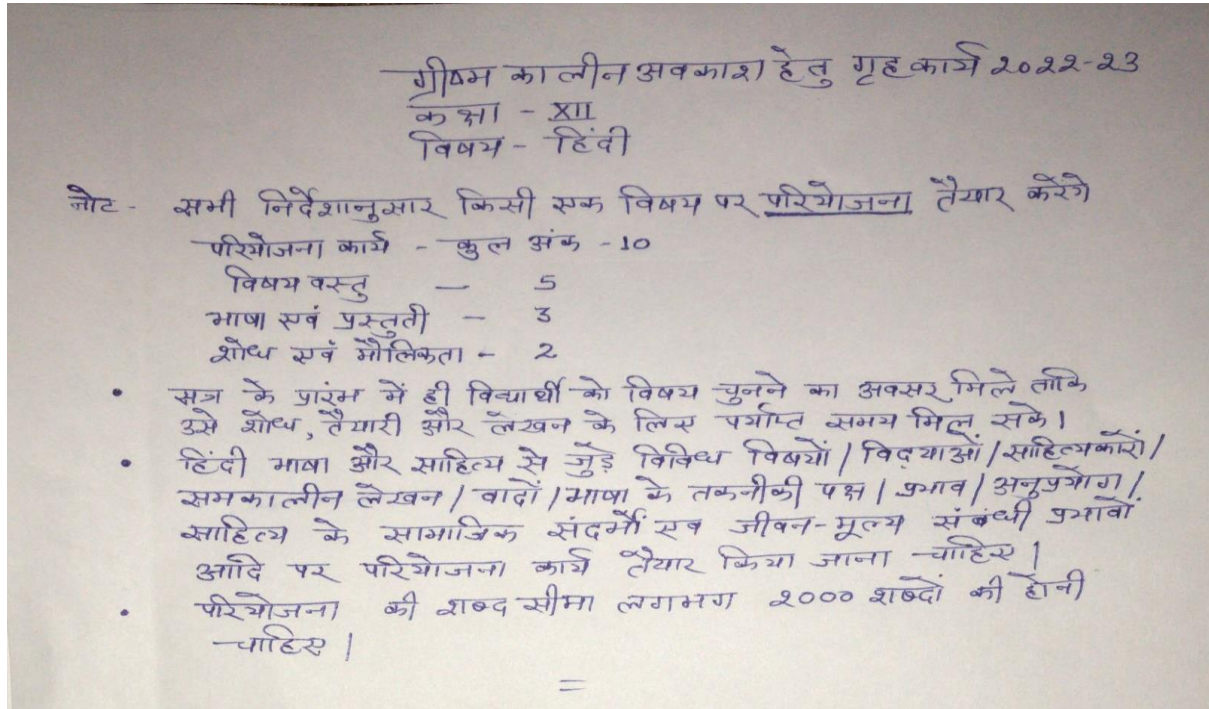
10- Calculate GDPmp

Items	(₹ in crore)
1. Dividend paid	20
2. Depreciation	25
3. Rent	75
4. Interest	125
5. Undistributed profits	50
6. Subsidies	10
7. Goods and services tax (GST)	40
8. Corporation tax	30

9. Mixed Income	500
10. Net factor income from abroad	20
11. Compensation of employees	300

GDP mp = 1155 cr.

HINDI



PHYSICAL EDUCATION

1. 1 game and sports -
history of game , skill ,court, diagram, specification and record.
2. sports award , arjuna award , Dronacharya ,Rajiv Gandhi khel Ratna , Dhyana chand award .
3. 10 asans of lifestyle disease , 4 pranayam ,draw(diagram draw or paste, merits ,procedure and contradiction.
4. 5 types of disorder, characteristics, causes, cure.
5. posture deformities -pictures, short note, reasons, treatments/remedies.
6. Test and measurement in sports- Apher test/motor fitness test ,cardio vascular test - Harvard step test and Rockport test ,Ricky and Jonas senior citizen fitness test .
7. classification sport injuries- soft tissues and joint injuries.
8. Types of movement, right about all of types of movement and paste pictures .
9. BMI test of 10 students.
10. Athletics -draw 400 meter track with all specifications, shortcut and long jump.

Informatics Practices

DATA HANDLING USING

PANDAS –1

LONG ANSWER QUESTIONS

1. A dictionary grade contains the following data:

```
Grade = {'name':['rashmi', 'harsh', 'john', 'ram', 'soni', 'vicky', 'tom'],  
         'grades':['A1', 'A2', 'B1', 'A1', 'B2', 'A2', 'A1']}
```

Write the statements for the followings:–

- Create a dataframe called GR.
 - Find the output of GR.
 - Add a column called percentage with the data (92,89,None,95,68,None,93)
 - Rearrange the columns as name, percentage and grade
2. Write a Python code to create a dataframe with appropriate headings from the list given below:
- ```
L1=['s101', 'amy', 70]
L2=['s102', 'akshat', 69]
L3=['s104', 'akshay', 75]
L4=['s105', 'cathy', 82]
```
3. Write a Python code to create a dataframe with headings(a and b) from the list given below:
- ```
L1=[[1,2],[3,4],[5,6],[7,8]]
```

4. What is a quartile? How is it related to a quantile? How do you generate it in Pandas?

5. Given the dataset for Employee:

```
Data=[['rajiv', 28, 'accountant'], ['sam', 34, 'cashier'], ['ram', 33, 'clerk'], ['mona', 43, 'manager']]
```

Write a program to convert this dataset into dataframe and then perform pivoting on the dataframe. Also draw a histogram based on Employee data.

6. How are `agg()` and `transform()` functions similar and different?

7. WAP to illustrate re-indexing rows in Pandas Dataframe as shown in the table:–

	Name	Age	Weight	Runs
0	Amar	16	52	66
1	Devraj	17	45	70
2	Mayor	16	46	80
3	Anil	18	50	90

8. What is the function of `groupby()` in Pandas Dataframe? How many steps are involved in it?
9. Write a python program to create a dataframe from the list of dictionaries by

mentioning index and columns?

10. Write the code in pandas to create the following dataframes :

df1			df2		
	Mark1	Mark2		Mark1	Mark2
0	10	15	0	30	20
1	40	45	1	20	25
2	15	30	2	20	30
3	40	70	3	50	30

Write the commands to do the following operations on the dataframes given above :

- (i) To add dataframes df1 and df2.
- (ii) To subtract df2 from df1
- (iii) To rename column mark1 as marks1 in both the dataframes df1 and df2.
- (iv) To change index label of df1 from 0 to zero and from 1 to one.

DATA HANDLING USING PANDAS –1

SHORT ANSWER QUESTIONS

1. Write the syntax and description for min, sum, describe and idxmax functions in python pandas series?
2. What is NaN in Pandas?
3. Let us assume, we want to import data from the CSV file to data frame. While importing data we don't want first two rows to be imported. Write a python program to satisfy this requirement?

CSV file name is 'sample.csv', it is present in the same directory.

4. What is difference between `reindex()` and `rename()`?
5. What is the use of `pipe()` in python pandas?
6. What are the difference between matplotlib and pyplot?
7. How does dataframe object specify indexes to its data rows?
8. Give difference between `pivot()` and `pivot_table()`?
9. Mention at least four functions for aggregation in Pandas.
10. Give difference between `apply()` and `applymap()` functions in Pandas?
11. How can we fill in Missing values in DataFrame?

12. What is the difference between Series and DataFrame?
13. List some advantages of CSV file format?
14. Write commands to print the following details of a series object
- (a) empty series
 - (b) indexes of the series
 - (c) data type of the data elements of the series
 - (d) To display whether the series has NaN values
15. Distinguish between head() and tail() functions?
16. Find the output of the following code:
- ```
import pandas as pd
data = [{'a': 10, 'b': 20}, {'a': 6, 'b': 32, 'c': 22}]
#with two column indices, values same as dictionary keys
df1 = pd.DataFrame(data, index=['first', 'second'], columns=['a', 'b'])
#With two column indices with one index with other name
df2 = pd.DataFrame(data, index=['first', 'second'], columns=['a', 'b1'])
print(df1)
print(df2)
```