



Holiday Homework (2018-19)

XI- HUMANITIES

HISTORY

1. Prepare a Project, which will be given to the students

The criteria for adjudging the project are:

- 1) Creativity 2) Originality 3) Content 4) Presentation

Topics:

- a) The mystery behind the human evolution.
b) Role of Archaeology in History

Your project should include the following:

1. Title of the topic.
2. Certificate
3. Acknowledgement
4. Index
5. Introduction to the topic.
6. Points of discussion (Research done on the topic)
7. What will be your contribution or an appeal to people viz-a-viz the topic you have chosen?
8. Conclusion (stating clearly if you want to strengthen a move / an issue or you want to condemn it –depending on the topic)
9. Credits/list of resources used / bibliography

POLITICAL SCIENCE

1. Write a summary of any two Articles from editorial of newspaper 'The Hindu', weekly.

GEOGRAPHY

Do any one

* Prepare the PPT on Disasters mitigation strategies in India

* Prepare a case study and presentation on any of the following topics taking the example from any country

- | | |
|-------------|----------------------|
| 1. Tsunami. | 2. Earthquake |
| 3. Floods | 4. Tropical cyclone. |
| 5. Drought | 6. Landslide |

ENGLISH CORE

"Practise daily because the quality of your practice determines the calibre of your performance"

The importance of holiday homework to reinforce learning can never be undermined. It is an effective tool to hone your creative skills and widen your mental horizon. It serves as a window through which you can monitor your progress effectively and aim for perfection to improve your score.

Cognitive Arena to hone your mental skills: (one chapter daily)

The summer of the beautiful White Horse:

1. "A man could be the father of his son's flesh, but that did not mean that he was the father of his spirit." Do you agree with this statement? Discuss in detail.
2. Why did the narrator say that "the spirit" of his tribe was being capricious and vagrant?
3. Aram justified that their stealing the horse was not actually stealing. Do you agree? Discuss in detail.
4. "A suspicious man would believe his eyes instead of his heart." Who said these words? Why?

The Address:

5. What human values does Mrs. S possess, unlike Mrs. Dorling? Explain with the reference to the chapter, "The Address".
6. Betrayal of trust is an evil which may afflict people of any time or any age. Discuss this statement in the context of the chapter "The Address".
7. "I was absolutely not interested in all that stored stuff." Who was not interested? Why?
8. Compare and contrast Mrs. Dorling with Mrs. S.

A Photograph:

9. What can you say about the childhood of the poet's mother? Discuss in detail.
10. Comment on the tone of the poem.
11. "Both wry with the laboured ease of loss." The poet is missing her mother. What is the role of the mother in forming the personality of the child? Describe in detail.
12. Happy moments are short-lived but they provide a lifetime memory. They provide a cushion to bear the difficulties which the future has in store for you. Comment in the light of the poem 'A Photograph' by Shirley Toulson.

The Portrait of a Lady:

13. The grandmother's farewell and reception of her grandson were very touching. Comment.
14. Write a character sketch of the grandmother, highlighting her values.
15. The chapter "The Portrait of a Lady" displays the sad reality of old age. Old people face loneliness and seclusion. It gets you thinking about the pain of old age. After taking inputs from your grandparents, write about the joys and pain of old age experienced by them.

Writing Section to enhance your skills :(Two Questions daily)

1. As the In charge of Sunrise School Delhi, write a notice informing the students of class XI about the conduct of remedial classes in the upcoming month. Provide the necessary details.
2. A Blood Donation Camp is going to be set up in Nehru Colony. As the Secretary of the RWA of the colony, draft a notice asking and encouraging the residents to take part in the cause. Provide the necessary details.
3. You are General Manager of Panache Export House, New Delhi. You want to appoint a Personal Assistant for your company. Draft a suitable advertisement.
4. You would like to sell your old car as you are planning to buy a new one. Draft a suitable advertisement to be published in a local daily.

5. You have lost your mobile phone while travelling in Delhi Metro. Draft an advertisement giving all relevant details and promising a reward.
6. You are the Manager of Cox and Kings and have organised a 3 nights/4 day's package for Dubai. Draft the advertisement for a national daily to draw people's interest towards it.
7. You are working for an advertising agency. Draft an appealing advertisement for launching new toothpaste. Give its features and benefits.

PPT MAKING ACTIVITY:

Make a Power Point Presentation on any topic given below

1. Poem 'A photograph'. Make a presentation on The Poet Shirley Toulson and the values you have learnt from the Poem.
2. Grandparents in our lives/synopsis of the chapter and values imbibed from it.
3. The Summer of a beautiful White Horse: Make a presentation on William Saroyan/ the values learnt from the chapter/the synopsis of the chapter.
4. The Address: Make a presentation on the life of Marga Minco/the impact of war on the lives of people/ the synopsis of the chapter/character sketch of Mrs. S and Mrs. Dorling.

Day 1, Suggested Time taken – 15 minutes

NOTE MAKING:

Read the passage given below carefully:

Good decoration reflects the personality of the people who live in the home. It should, first of all, be distinctive, just as each person is distinctive. A home should have unity not only within each room but also throughout the house. Rooms should, to some degree, harmonize with each other. The colour and styling of each room, particularly, should fit into the colour and styling of the rooms which run out of it.

Attractive home furnishings set the stage for pleasant living. If they are an expression of yourself, you will have a feeling of satisfaction every time you enter your home, and friends will share your enjoyment.

However, furnishings and surroundings expressive of just the right note of restfulness, gay informality, or elegant simplicity are not often assembled by accident. Even enthusiasm alone is not enough. For most home decorators, it takes poring over plans, trying colour schemes, finding ingenious ways to make the best of what you have, and shopping around to search out just the right purchases at prices you can afford to pay. But there is keen pleasure in striving for the perfect result, and great satisfaction in achieving it.

A successful house and successful rooms will depend upon the proper relationship of each element in it to the others and to the whole. Therefore, in selecting each piece it is important to consider the background, the usage, the draperies, the floor covering, the upholstering materials, the woods, shapes, colour scheme, and the feeling you prefer for the room.

Work and plan to enjoy in your house. Limit the expenditures of time, effort and money to the extent of your abilities, so that just running the house doesn't dominate your life. Elegance and delicate things may be a drain you can afford only in a limited way. If you can't afford outside help, select a house and furnishings that require less care. Plan your activities so that tumult and upset are limited.

You can select a pleasing combination of colours from a wallpaper, a fabric, a flower or scene, or even a picture in a magazine. If you don't already have the furniture, it is a good idea to make up a colour scheme in this way. Let one colour predominate. Limit a colour scheme to two or three colours, with white or gray tones.

(a) On the basis of your reading of the above passage, make notes on it, in points only using headings and sub-headings. Also use recognizable abbreviations wherever necessary (Minimum 4). Supply a suitable title to it.

(b) Write a summary of the above passage in about 80 words

Day 2:

NOTE MAKING AND ABSTRACTION:

Read the passage given below:

A good business letter is one that gets results. The best way to get results is to develop a letter that, in its appearance, style and content, conveys information efficiently. To perform this function, a business letter should be concise, clear and courteous.

The business letter must be concise: don't waste words. Little introduction or preliminary chat is necessary. Get to the point, make the point, and leave it. It is safe to assume that your letter is being read by a very busy person with all kinds of papers to deal with. Re-read and revise your message until the words and sentences you have used are precise. This takes time, but is a necessary part of a good business letter. A short business letter that makes its point quickly has much more impact on a reader than a long-winded, rambling exercise in creative writing. This does not mean that there is no place for style and even, on occasion, humour in the business letter. While it conveys a message in its contents, the letter also provides the reader with an impression of you, its author: the medium is part of the message.

The business letter must be clear. You should have a very firm idea of what you want to say, and you should let the reader know it. Use the structure of the letter—the paragraphs, topic sentences, introduction and conclusion—to guide the reader point by point from your thesis, through your reasoning, to your conclusion. Write in Paragraph to break up the page and to lend an air of organisation to the letter. Use an accepted business-letter format. Re-read what you have written from the point of view of someone who is seeing it for the first time, and be sure that all explanations are adequate, all information provided (including reference numbers, dates, and other identification). A clear message, clearly delivered, is the essence of business communication.

The business letter is your custom-made representative. It speaks for you and is a permanent record of your message. It can pay big dividends on the time you invest in giving it a concise message, a clear structure, and a courteous tone.

2.1. Make notes on the passage using recognisable abbreviations in any suitable format. Give a title to the passage.

2.2. Make a summary of the passage.

ECONOMICS

UNIT I – Introduction to Micro Economics

(I) Very short answer type Questions:-

Q.1. What is meant by economizing resources?

Q.2. Define: - (i) Economy (ii) Economic problem.

Q.3. Why does the problem of choice arise?

Q.4. Why there is a need to economize the resources?

Q.5. Why do all economies face similar basic problems?

Q.6. What does increasing MOC along a PPC mean?

- Q.7. What does a rightward shift in the PPC indicate?
- Q.8. Give two examples each of – under-utilization of resources & growth of resources.
- Q.9. What does the slope of PPC indicate?
- Q.10. When is allocation of resources considered as - (i) Efficient? (ii) Inefficient?
- Q.11. When will the shape of PPC be convex?
- Q.12. What do you mean by alternative use of resources? Give e.g.
- Q.13. Give two characteristics of PPF.
- Q.14. How does the concept of opportunity cost help us to obtain the situation of full and efficient use of resources on PPC?
- Q.15. Which factors lead to a shift in the PPC?

(II) Short answer type Questions:-

- Q.1. Give two differences between Micro-economics and macro-economics
- Q.2. Explain the problem of “what to produce” with the help of an example.
- Q.3. Why is PPC concave to the origin?
- Q.4. What is PPC? Illustrate the central problems of an economy with the help of this curve.
- Q.5. Draw a PPC and indicate the following situations – (i) Fuller utilization of resources. (ii) Growth of resources. (iii) Under-utilization of resources.
- Q.6. What is likely to be the impact of “Make in India” appeal to the foreign investors by PM of India, on PPC of India? Explain.
- Q.7. What is likely to be the impact of efforts toward reducing unemployment on PPC of economy? Explain
- Q.8. Define MOC. Give its formula and calculate it for the following –
- (a) Wheat 100 90 70 40 10 0
Cloth 0 25 50 75 85 87
- Q.9. How will the following affect the PPC?
- (a) Strikes by workers. (b) Improvement in technology. (c) Obsolete technology only for good Y.
(d) Natural calamity. (f) Growth of resources.
- Q.10. “Massive unemployment in the economy will shift the PPC to the left.” Defend or refute. Give reasons.
- Q.11. “An economy always produces on, but not inside, the PPC” Defend or refute. Justify
- Q.12. Explain the concept of opportunity cost with an example.
- Q.13. What are the central problems of an economy? Why do they arise?
- Q.14. “Economics is all about making choices in presence of scarcity.” Explain.

Q.15. Why is PPC known as transformation line?

Q.16. How is positive economics different from normative economics. Give examples

INFORMATICS PRACTICES

Attempt the following questions:

1. What is DBMS?
2. What is SQL? What is the distinctive feature of MySQL?
3. What do you understand Degree and Cardinality of a Table?
4. What do you mean by Referential Integrity? How is it enforced in DBMS?
5. What is Data Model? Name various Data Models.
6. Differentiate between DDL and DML.
7. Compare CHAR and VARCHAR datatypes.
8. What are the differences between DELETE and DROP command?
9. What is MySQL Server and MySQL Client?
10. What is a Key? Define the following terms in relevance to keys:
 - a. Primary Key
 - b. Candidate Key
 - c. Alternate Key
 - d. Foreign Key
11. What do you mean by Data Dictionary? What does it comprise of?
12. Which function is used to substitute Null values in a query result?
13. Write command to print the day of the week of your birthday in the year 1999.
14. What is the difference between SYSDATE() and NOW() function?
15. What is the role of UNIQUE constraint? How is PRIMARY KEY constraint different from UNIQUE constraint?
16. How would you view the structure of table Dept?
17. What is meant by "Data independence"? Explain difference between Logical and Physical data independence.
18. Which comparison operator is used for comparing?
 - (i) Patterns
 - (ii) character value
 - (iii) null values
 - (iv) ranges
 - (v) list of values
19. Differentiate between:
 - a. DROP TABLE & DROP DATABASE
 - b. DROP TABLE & DROP clause of ALTER TABLE.
20. Write My SQL command to create a table STUDENT with under mentioned structure by using SQL Statement:

StdID	Number	Primary Key
StdName	Character (30)	NOT NULL
Gender	Character(6)	Male or Female
Percentage	Number	
SClass	Number	
Sec	Character	
Stream	Character(10)	Science or Commerce

DOB Date Date of Birth

21. Write MySQL commands to open school database.
22. Write MySQL command to select student table.
23. Answer the following questions :
 - a. Write the difference between Primary Key and Unique Key?
 - b. You have the following table CUSTOMER. Identify the required data types for each attributes :

Cust_ID	Customer Identification Number
Cust_Name	Customer Name
Cust_Add	Customer Address
Bill_No	Customer bill Number
24. Find the Output of following :
 - a. SELECT ROUND (1.298,1);
 - b. SELECT POW(3,4);
 - c. SELECT LOWER('MYSQL QUERY LANGUAGE');
 - d. SELECT SUBSTR('MYSQL LANGUAGE', 7,8);
 - e. SELECT LENGTH('INFORMATION');
25. What is a Transaction?
26. Define the following
 - a. Atomicity
 - b. Consistency
 - c. Isolation
 - d. Durability
27. What are two way in which multiple transactions can be executed?
28. What is Savepoint? What is the role of Savepoint in the Transaction?
29. Describe the following command
 - a. COMMIT
 - b. ROLLBACK
 - c. SAVEPOINT

FINE ART

Part 1: Natural and object study

(A) Draw and shade **two** object drawing of a group of objects from any drawing book on a drawing paper of half imperial size .Your drawing should be appropriate in realistic manner with proper light, shade and perspective. Natural and geometrical form may be covered in group of objects

Natural-forms-large size foliage and flower, fruits, vegetable, any kitchen object

Mark distribution:

Total marks 20

1. Drawing (composition)	10
2. Treatment of media /colors mixing	5
3. Overall impression	5

Part 2: Painting composition

(A) Make **two** compositions with two human figure of the following three subject in any medium (pencil, pastel, poster color) of your choice on a drawing paper of half imperial size either horizontally or vertically. Your composition should be original and effective. The subject of composition are given below-

1. Daily life scene
2. Sport activity
3. Village escape

(B) Make **one** landscape or nature scene with the help of poster color or water cake color on a drawing paper of half imperial size.

Mark distribution:

Total marks 20

1. Compositional arrangement including emphasis on the subject	10
2. Treatment of media (color mixing)	5
3. Originality, creativity, overall impression	5

PHYSICAL EDUCATION

1. Prepare your board practical files as per the instructions given by Mr Neeraj.
2. Learn all the chapters done in the class as per the blueprint given to you.
3. Do all the Questions of the chapters done in the class.

MATHEMATICS
CHAPTER-3 (TRIGONOMETRIC FUNCTIONS)

1. find the principal solutions of each of the following equations:

a) $\sin x = \frac{\sqrt{3}}{2}$ b) $\cos x = -\frac{1}{2}$ c) $\tan x = \sqrt{3}$ d) $\operatorname{cosec} x = 2$

2. Find the principal solutions of each of the following equations:

a) $\sin x = \frac{-1}{2}$ b) $\sqrt{3} \operatorname{cosec} x + 2 = 0$ c) $\tan x = -\frac{1}{\sqrt{3}}$

3. Find the general solution of each of the following equations:

i. a) $\sin 3x = 0$ b) $\sin \frac{3x}{2} = 0$ c) $\sin\left(x + \frac{\pi}{5}\right) = 0$ d) $\cos 2x = 0$ e)

$\tan\left(3x + \frac{\pi}{6}\right) = 0$

ii. a) $\sin x = \frac{\sqrt{3}}{2}$ b) $\cos x = 1$ c) $\sec x = \sqrt{2}$

iii. a) $\sec 3x = -2$ b) $\cot 4x = -1$ c) $\operatorname{cosec} 3x = \frac{-2}{\sqrt{3}}$

iv. $4 \sin x \cos x + 2 \sin x + 2 \cos x + 1 = 0$

v. $\sec^2 2x = 1 - \tan 2x$

vi. $\tan^2 x - 3 \tan x = 0$

vii. $\sin x + \sin 3x + \sin 5x = 0$

viii. $\sin x \tan x - 1 = \tan x - \sin x$

ix. $\cos x + \sin x = 1$

x. $\sqrt{3} \cos x + \sin x = 1.$

SINE RULE AND COSINE RULE:

1. In any triangle ABC, prove that:

i. $\frac{\sin(B-C)}{\sin(B+C)} = \frac{b^2 - c^2}{a^2}.$

ii. $a^3 \sin(B-C) + b^3 \sin(C-A) + c^3 \sin(A-B) = 0$

iii. $\frac{a^2 \sin(B-C)}{\sin A} + \frac{b^2 \sin(C-A)}{\sin B} + \frac{c^2 \sin(A-B)}{\sin C} = 0.$

iv. $\left(\frac{b^2 - c^2}{a^2}\right) \sin 2A + \left(\frac{c^2 - a^2}{b^2}\right) \sin 2B + \left(\frac{a^2 - b^2}{c^2}\right) \sin 2C = 0$

v. $(b-c) \cot \frac{A}{2} + (c-a) \cot \frac{B}{2} + (a-b) \cot \frac{C}{2} = 0$

vi. $a \sin \frac{A}{2} \sin\left(\frac{B-C}{2}\right) + b \sin \frac{B}{2} \sin\left(\frac{C-A}{2}\right) + c \sin \frac{C}{2} \sin\left(\frac{A-B}{2}\right) = 0$

vii. $a^3 \cos(B-C) + b^3 \cos(C-A) + c^3 \cos(A-B) = 3abc.$

2. In any triangle ABC, Prove that:

$\frac{a^2 \sin(B-C)}{\sin B + \sin C} + \frac{b^2 \sin(C-A)}{\sin C + \sin A} + \frac{c^2 \sin(A-B)}{\sin A + \sin B} = 0$

3. If in triangle ABC, $\frac{\sin A}{\sin C} = \frac{\sin(A-B)}{\sin(B-C)}$ prove that a^2, b^2, c^2 are in A.P.
4. With usual notations, if in a triangle ABC $\frac{b+c}{11} = \frac{c+a}{12} = \frac{a+b}{13}$, then prove that: $\frac{\cos A}{7} = \frac{\cos B}{19} = \frac{\cos C}{25}$.
5. If a^2, b^2, c^2 are in A.P., prove that $\cot A, \cot B, \cot C$ are in A.P.
6. Two ships leave a port at the same time. One goes 24km per hour in the direction N 45° E and other travels 32km per hour in the direction S 75° E. find the distance between the ships at end of 3hours.
7. Two trees, A and B are on the same side of a river. From a point C in the river the distance of trees A and B are 250m and 300m respectively. If the angle C is 45° , find the distance between the trees (use $\sqrt{2} = 1.44$).
8. An object is observed from three points A, B, C in the same horizontal line passing through the base of the object. The angle of elevation at B is twice and at C thrice that at A. If $AB = a, BC = b$ prove that the height of the object is $\frac{a}{2b} \sqrt{(a+b)(3b-a)}$.
9. A tree stands vertically on a hill side which makes an angle of 15° with the horizontal. From a point on the ground 35m down the hill from the base of the tree, the angle of elevation of the top of the tree is 60° . Find the height of the tree.
10. The angle of elevation of the top point P of the vertical tower PQ of height h from a point A is 45° and from a point B, the angle of elevation is 60° , where B is a point at a distance d from the point A measured along the line AB which makes an angle 30° with AQ. prove that $d = (\sqrt{3} - 1)h$.

A lamp post is situated at the middle point M of the side AC of a triangular plot ABC with $BC=7m, CA=8m$ and $AB=9m$. Lamp post subtends an angle of 15° at the point B. determine the height of the lamp post.