LITTLE FAIRY PUBLIC SCHOOL
Holiday s' Homework (2024-25)
CLASS-11

Summer Vacations will commence from 21May, 2024 to 30th June, 2024.

The school will reopen from 1st July, 2024 (Monday)

Holiday homework is an attempt to channelize the creative energy; it keeps you connected with the syllabus. Doing it in the right-spirit with enthusiasm will make it a great learning experience

General Instructions:

1. Revise all the work done in the class.

2. Make sure that your work is neat, presentable, and original and conforms to the guidelines.

3. Engage yourselves in morning walks, yoga, exercise, meditation with your parents or grandparents.

Do the given homework as directed by the teachers

1. **English**

1.) Design a poster on the theme of "Climate change and the world in 2050".

2.) Read the following extract and answer the questions that follow:

The cardboard shows me how it was

When the two girl cousins went paddling,

Each one holding one of my mother's hands,

And she the big girl--some twelve years or so

    (a) What does the cardboard refer to?

    (b) Who was the big girl and how old was she?

    (c) How did the cousins go paddling with mother?

3.) The lesson 'The Portrait of a Lady' suggests a growing distance between theyounger and older generation. Write a speech in about 150 words to be delivered inthe morning assembly of the school on the above topic, on the basis of your readingof the text.

4.) Answer the following questions:

    (A) Mention three reasons why the author's grandmother was disturbed when he startedgoing to the city school.

    (B) Mention the odd way in which the author's grandmother behaved just before shedied.

    (C) What are the different poetic devices used in the poem? Explain them very briefly. (A photograph)

    (D) How did the two boys build a connection with the white horse in those few days?

    (E) How does the author describe the character of Mourad?

    (F) What do we know about John Byro?

5.) Human life is short-lived in contrast to nature. Comment on the statement in the light of the poem A Photograph.

6.) Can the act of stealing be ever justified? Give your views in the context of reading of The Summer of the Beautiful White Horse.

7.) PROJECT :

THE PROJECT SHOULD INCLUDE

1. INDEX
2. CERTIFICATE
3. INTRODUCTION
4. CONTENT——-ATLEAST 15 TO 20 PAGES
5. LEARNING OUTCOME
6. BIBLIOGRAPHY

TOPIC :1 Gender issues (Roll no. 1-10)
TOPIC 2: Unleash your real potential (Roll no. 11-20)
TOPIC -3: Social Issues in India(Roll no.21-30)
Topic -4:Corruption in india (Roll no. 31 onwards)

2. PHYSICS :

- Do the back exercise questions of Ncert   chapter 1, 2 ,3 and 4.

3. CHEMISTRY

- Do the back exercise questions of Ncert .

4. BIOLOGY

Q1) Multiple choice Questions:(1m each)

(i) Living beings have been divided into there domains. What is true of archaea bacteria:
(a) Completely differ from prokaryotes.
(b) Resemble eukaryotes in all respects.
(c) It has novel features absent in prokaryotes & eukaryotes.
(d) Completely differ from prokaryotes & eukaryotes.

(ii) Correct sequence in Linnaean hierarchy is:
(a) Species, genus, family, order, class
(b) Species, genus, phylum, family, class
(c) Class, family, species, genus, order
(d) Phylum, class, family, species, order

(iii) Lysosomes take part in:
(a) Intracellular digestion (b) Extracellular digestion
(c) Fat breakdown   (d) Both (a) & (b)

(iv) Arrangement of ciliary microtubules is:
(a) 9+9   (b) 9+3   (c) 9+4   (d) 9+2
Write 10Mcq's of chapter - 1,5 & 8 in fair note Book.

Assertion & Reason based questions
     Answer these questions selecting the appropriate option given below:
(a) Both A & R are true & R is the correct explanation of A
(b) Both A & R are true & R is not the correct explanation of A
(c) A is true but R is false
(d) A is false & R is true
(v) Assertion: Mitochondria & Chloroplasts have similar RNA sequence.
Reason: They show prokaryotic organization.
(vi) Assertion: National parks have been set up to protect wildlife.
Reason: Biosphere reserve has greater importance than the national parks.
(v) Assertion: A cell membrane shows fluid behavior.
Reason: A membrane is a mosaic or composite of diverse lipids & proteins.

Short Answer type Question :
Q2 Enlist four peculiar features of fluid mosaic model of plasma membrane.
   Write its significance also.
Q3 Differentiate between bacterial cell and Animal cell through labelled diagram.
    Who gave cell theory.
Q4 Write the rules and advantages of Binomial Nomenclature.
   Explain with the help of one example.
#Prepare 10 self made questions from each chapter - 1,5 & 8 i. e. from covered topics & note it down in fair notebook.
Q5 case Based Questions :

Case Base- I (Read the para and choose correct answer.)

Adwita went to see the zoo in her town with her parents & saw many wild animals, their food habits, behavior etc. she saw that there was a wide variety of animal life in the zoo. But she was amazed to see that the board placed in front of lion cage & monkey place which tells that both were mammals. However, she thought that they were totally different in appearance.

        (i) Why lion & monkey are considered to be mammals?

        (ii)Write the scientific name of lion & tiger?

        (iii) Which is correct hierarchical sequence:

        (a) Phylum, class, order, family

        (b) Phylum, division, family, class

        (c) Genus, species, order, family

        (d) Division, order, class, genus

Case Base-II(Read the para and choose correct answer.)

Cytoplasm is one of the basic components of the cells. It is an amorphous, translucent & homogeneous colloidal ground substance present between the plasma membrane & the nucleus. It has two types of cytoplasmic structures: cell organelles & cell inclusions. Cell organelles include ER, Golgi body, Ribosomes, lysosome, mitochondria etc. each of these cell organelles is structurally adapted to perform its specific function. Answer the following questions with reference of cell organelles.

        (iv) Which organelle is present in maximum number is secretory cells?

        (v) Which of the cell organelles is associated with photorespiration?

BIOLOGY EXPERIMENTS

1. Study and describe a locally available common flowering plant, from any one family:
Solanaceae or Liliaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case
of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams).

2. Study of distribution of stomata in the upper and lower surfaces of leaves.

3. Separation of plant pigments through paper chromatography.

4. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

5. Test for presence of sugar in urine.

6. Test for presence of albumin in urine.

#Note down all the practicals in Biology Tag File as it is given in Lab manual.

Section - c

Prepare Science model on given topic:

Theme:Science & Technology for Society

Sub Themes:

(i) Health (Biology students)

(ii) Life(Life style for environment) Biology Students)

(iii) Agriculture (Biology students)

(iv) Communication and transportation (CS students)

(v) Computational Thinking (CS students)

Instructions :

Model should be working based on scientific principles.

Strictly not advise to use thermocol.

ART INTEGRATED PROJECT

<u>Virtual visit to biodiversity of Andaman Nicobar and Lakshadweep Islands</u>

*To analyse biodiversity of both Island based on climate and topography.

* Click pictures/draw diagram of animal/ marine vegitation/ birds/ flowers and trees paste it on scrap book or make collage .

* Draw pie chart/graphs/ bar diagram etc to depicts species,animals,birds,flowers, Marine vegetation and trees.

* Write an essay on conservation of wildlife.

5. COMPUTER SCIENCE

1. What is computer?
2. What are the advantages and disadvantages of computer?
3. What is the basic building block of any computer?
4. Explain the basic architecture of a computer?
5. What is the role of CPU in a computer?
6. What is the function of memory in computer?
7. What is the role of input unit in a computer?
8. What is the role of output unit in a computer?
9. Give some examples of input devices of computer?
10. Give some examples of output devices of computer?
11. What are the functions of input and output unit of a computer?
12. What are the functions performed by control unit in computer?
13. What are the functions performed by ALU?
14. Can you distinguish CPU and ALU?
15. Distinguish internal and external memory of a computer?
16. Differentiate RAM and ROM.
17. Write short notes on different types of ROMs.
18. Do you feel mobile phones are replacing computers ,if yes then why.

- Do the practices of number system and logic gates

6. MATHEMATICS

1. A college awarded 38 medals in football, 15 in basket ball and 20 in cricket. If these medals went to a total of 50 men and only five men got medals in all the three sports, how many received medals in exactly two of the three sports?

2. In a survey it is found that 21 people like product A, 26 people like product B and 29 like product C. If 14 people like product A and B, 15 people like product B and C, 12 people like product C and A, and 8 people like all the three products. Find i. How many people are surveyed in all? How many like product C only?

3. In a group of students, 225 students know French, 100 know Spanish and 45 know both. Each student knows either French or Spanish. How many students are there in the group?

4. A survey shows that 84% of the Indians like grapes, whereas 45% like pineapple. What percentage of Indians like both grapes and pineapple?

5. In a survey of 450 people, it was found that 110 play cricket, 160 play tennis and 70 play both cricket as well as tennis. How many play neither cricket nor tennis?

6. In a group of 800 people, 500 can speak Hindi and 320 can speak English. Find i. How many can speak both Hindi and English? ii. How many can speak Hindi only?

7. If X and Y are two sets such that n(X) = 19, n(Y) = 37 and n($X \cap Y$) = 12, find n(XUY).

8. Are sets A = { –2,2}, B = { x : x Z, x^2 –4 = 0} equal? Why?

9. (a) Write (–5,9] in set-builder form   (b) Write { x : –3 x<7} as interval.

10. Let R = { (x, y) : x, y N and y = 2x} be a relation on N. Find :i.Domain ii. Codomain iii. Range

11. Draw the graph of the Constant function, f : R R; f(x) = 2 $\forall$ x R. Also find its domain and range.

12. . Find the domain and range of, f(x) = |2x – 3| – 3

13. Let A = {1,2,3,4}, B = {1,4,9,16,25} and R be a relation defined from A to B as, R = {(x, y) : x A, y B and y = x 2 } a. Depict this relation using arrow diagram.
    b. Find domain of R.
    c. Find range of R.

d. Write co-domain of R.

14. Find the domain of the real function, $f(x) = \sqrt{x^2 - 4}$

15. The larger hand of a big clock is 35 cm long. How many cm does its tip move in 9 minutes?

16. In a rigt angled triangle, the difference between two acute angles is $\frac{\pi}{18}$. Express the angles in degrees.

17. The angles of a triangle are in A.P. and the number of degrees in the least to the number of radians in the greatest is 60:π . Find the angles in radians.

18. Draw the graph of: (a)3sinx   (b) sin 2x   (c) -cosx   (d)3cos 2x

19. Solve the following trigonometric equations: (a)sin 3x +cos 2x $= 0$ (b)3tanx+cotx= 5cosecx
    (c) 2 tanx –cotx + 1= 0   (d) sin 2x + sin 4x + sin 6x = 0 (e) cos3x+cosx = cos 4x + cos 2x

20. Complete the Lab Activities in the Practical File.

21. Make a maths working model on **" Vedic maths in Daily life" .** Model must be working , innovative, problem solving , original and economical .(Thermocol must not be used)

7.ACCOUNTANCY :

Chapter 1: Memories and understand the difference in Accounting, Accountancy and Book keeping. Merits Limitations of accounting.
Chapter 2: Learn basic Accounting terms covered in class lecture
Chapter 3 : Learn and understand all the accounting principles and accounting assumptions. Meaning of AS, and merits of it.
 Chapter 4 : Learn the difference between Accrual base of accounting and Cash basis of accounting. Chapter 5 : Solve any 10 Problems from exercise (page no 5.19 to 5.21) and All problems from Q. 17 to 26 page no. 5.21 to 5.22.
 Chapter 6: Learn all the types of Accounts with examples under traditional approach.
Chapter 7 : Prepare a project on A4 size sheet based on voucher. Take 15, to 16 imaginary transactions and prepare and paste different types of vouchers used in actual life of business world. You can take help of your text book, google.

8.BUSINESS STUDIES :

1 Revise the Units covered in class
          a) Nature and purpose of Business
           b) Forms of Business organisations
           c) Formation Of company

2. Design a business-toon or write an article on any corporate current issue or any creative idea for business for Commerce section
3 Make a *project file on any one of the following topics .

 A) **HISTORY OF TRADE AND COMMERCE IN INDIA**
Sensitization and orientation of students about the position of the Indian subcontinent in the world economy, traditional methods in business and commerce, Understanding its cultural and socio-economic aspects and also trade routes and Major trade centers.
Students are required to gather information on:
1. Silk route / spice route
2. Indigenous banking system
3. Major Trade centres
4. Position of Indian sub continent in world economy
B)Field visit -:
* Visit to an industry
* Visit to a departmental store
* Visit to a mall

C) Aids to trade
D). Import / export procedure
E). A visit to state emporium
Each student will prepare and submit his/her project report.
Following essentials are required to be fulfilled for its preparation and submission.
1. The total project will be in a file, consisting of 25-30 pages
2. The project will be handwritten along with pictorial presentation of information suitably
3. The project will be presented in a neat folder
4. The project report will be developed in the following sequence

Cover page should project the title, student information, and year.
List of contents.
Acknowledgements and preface (acknowledging the institution, the news
papers read, T.V. channels viewed, places visited and persons who have helped).

Introduction. Topic with suitable heading.
Content (including any or all of the above topics)
Conclusion
Bibliography
ASSESSMENT The marks will be allocated on the following heads.
1 Initiative 2 Mark
2 Creativity in presentation 2 Mark
3 Content, observation and research work 4 Mark
4 Analysis of situations 2 Mark
 Prepare project file on given topic
General guidelines -:
1. Use A4 size punch sheets for the project.
2. Don't use any different color pens to write .
3. Use only blue sketch pen for heading and blue gel or dot pen to write the project.
4. Headings must be in bold and underlined.
5. The project must be in good handwriting.

9.ECONOMICS
State True or False:
1. Scarcity is the root cause of all economic problem.
2. Prices in the Indian market are continuously falling is a normative economic statement.
3. India should control its population is a positive economic statement.
4. Macro economics is also known as 'Price Theory'.
5. Market demand is studied under Macro economics.
6. There can exist a paradox in micro and macro activities.
7. 'How to produce' is a problem linked to distribution of national income.
8. Typical shape of PPC is convex to the origin.
9. Increasing MRT leads to concave shape of the production possibility curve.
10. Production if wheat falls from 25 units to 20 units leading to rise in butter production from10units to 20units. MOC is 2.
11. An economy always operates on PPF.
12. Massive unemployment will shift PPF leftward.
13. 'Make in India' and 'start up India' campaigns will shift PPC rightward.
14. Developed nations like Japan will have no economic problems.
15. If there was no scarcity, there was no economic problem.
16. Rotation in PPC is same as shift in PPC.
17. Ordinal measure of utility measures utility in terms of numbers.8.
    Cardinal measure of utility measures utility in terms of preference.

18. *** Make a special book jacket and the folder of your own creativity self made with all the spaces.
19. At 1st unit of consumption Marginal utility is equal to Total utility.
20. Marginal utility can never be negative.
21. Typical IC is concave to the origin.
22. Marshall gave indifference curve approach.
23. MRS measures the slope of Indifference curve.
24. Two ICs can intersect.
24. MRS measures the slope of budget line.
25. Marginal utility is minimum when Total utility is maximum.
26. If MUX > PX consumer should continue consuming more.
27. Demand and Desire are same things.
27. Reduction in price causes increase in demand.
28. Favourable change in other factors cause extension in demand.
29. When the price of Tea increases the demand for coffee increases.
30. If the price of car increases, demand curve for petrol shifts rightward.
31. Change in Quantity demanded is also referred to shift in demand.
32. Change in quantity demanded is also referred to movement along the same demand curve.
33. Law of demand is derived from law of diminishing marginal utility.

10.INFORMATICES PRACTICES
COMPUTER SYSTEM
1.What is computer?
2.What are the advantages and disadvantages of computer?
 3.What is the basic building block of any computer?
 4. Explain the basic architecture of a computer?
5.What is the role of CPU in a computer?
6.What is the function of memory in computer?
7.What is the role of input unit in a computer?
8.What is the role of output unit in a computer?
9.Give some examples of input devices of computer?
10. Give some examples of output devices of computer?
 11. What are the functions of input and output unit of a computer?
 12. What are the functions performed by control unit in computer?
 13. What are the functions performed by ALU?
14. Can you distinguish CPU and ALU?
15. Distinguish internal and external memory of a computer?
 16. Differentiate RAM and ROM.
17. Write short notes on different types of ROMs.
18. Do you feel mobile phones are replacing computers ,if yes then why.
MEMORY UNITS
1.What is computer memory?
2. What is smallest computer memory unit?
3. What is bit?
4. What is byte?
5.What is memory unit?
6. How many bytes are there in 1MG , 1GB?
 7.What are the types of computer memory?
 8.What are the types of primary memory?
9.What is cache memory?
10. What are the advantages of cache memory?
11. What is RAM?
 12. What is ROM?
13. Differentiate RAM and ROM?

14. Differentiate SRAM and DRAM?
15. What are the types of ROM?
16. What is secondary memory?
17. How hard disk works?
18. How data are written over CD/DVD?
19. How data reading operation is performed over CD?
20. How pen drive works for data reading and writing operation?
21. Is it possible to recover data lost from RAM?
22. How data can be recovered from ROM?
23. Is it possible to recover data lost from hard disk?
24. What are the security issues related to RAM, ROM , HDD?

GETTING STARTED WITH PYTHON
1. Who is the developer of Python Programming Language?
2. How Python was named for Python Programming language?
3. Is python cross platform language,how?
4. Python is free and open source language. here, what is free and open source?
5. When was Python released?
6. What are the advantages of Python Programming Language?
7. What are the limitation of Python Programming Language?
8. In how many different ways we can work of Python?
9. Differentiate interactive and script mode of Python programming language?

PYTHON FUNDAMENTALS
1. What are literals in Python? How many types of literals are there in Python?
2. How string literal is represented in Python?
3. What is a statement and expression?
4. What is the role of indention in Python?
5. What are variables?
6. What is dynamic typing in python?
7. Differentiate keyword and identifier.
8. What are tokens in Python?
9. What will be the output of following?

```
a=20
b=a+1
a=33
print(a+b)
```

10. What is wrong with following code fragment?

```
a=20 print(a) b=33 print(b)
```

11. What is wrong with following code fragment? name="freya" classs=4 print(name+classs)
12. What will be the output of following python code? a,b=3,4 a,b,c=b,a+3,b-1 print(a,b,c)
13. What will be the output of following python code? a,b=3,4 c,a=b*4,a+4 print(a,b,c)
14. What will be the output of following python code/code fragment?

```
a. print(print("vishal"))
b. print("vishal")
   print("indian")
c. print("vishal",end=" ")
   print("indian")
d. a=int(input("enter first no"))
   b=int(input("enter second no"))
   a,b=b,a
   print("a=",a)
   print("b=",b)
   #if user is entering 5 and then 10
```

15. Write a Python program to find out the simple interest. (I=PXRXT/100)
16. Write a Python program to find out the area of the RECTANGLE (A=LXB).
18. Write a Python program to find out the circumference of circle (A=2X3.14XR).
19. Write a Python program to find out the sum of a three digit number.
20. Which of the following is an invalid statement?
    a) abc = 1,000,000
    b) a b c = 1000 2000 3000
    c) a,b,c = 1000, 2000, 3000
    d) a_b_c = 1,000,000
21. What is the error of following code : a,b=100?

11.POLITICAL SCIENCE
(I) WRITTEN ASSIGNMENT :-
1. Explain in detail the following fundamental rights (with their Articles)
      – RIGHT TO EQUALITY
      - RIGHT TO LIBERTY AND PERSONAL FREEDOMS
      - RIGHT TO FREEDOM OF RELIGION
      - RIGHT AGAINST EXPLOITATION
      - CULTURAL AND EDUCATIONAL RIGHTS OF MINORITY GROUPS
      - RIGHT TO CONSTITUTIONAL REMEDY
2. Explain the Directive principles of state policy ?write about their relationship with fundamental rights ?
3. Which of the fundamental right is in your opinion the most important right ?summarise its provisions and give arguments to show why it is most important.

4. Write a short note on fundamental duties.

(II) Project Work: -
Make a project on Fundamental Rights in 6 to 8 pages on A4 sheets.

(III) READING TASK –
1.Read newspapers especially the Editorial page everyday.
2.Read more about Indian constitution.

12.HISTORY
Q1 What is Mesopotamia?
Q2 What are the geographical conditions of the Mesopotamia?
Q3 What are the various reasons for the development of writing?
Q4 What are the features of the urbanization? Explain.
Q5 Explain the temples in southern Mesopotamia.
Q6 Describe the legacy of writing in Mesopotamia.
Q7 Describe the movement of goods into cities and communication during the period of Mesopotamian civilization.
Q8 What do you mean by Republic during Roman Empire?
Q9 Who was Augustus?
Q10 What is the difference between Roman Empire and Iranian Empire?
Q11 Explain Third century crises.
Q12 Write a short note on Gender, literacy and culture during Roman Empire.
Q13 What were the various economic activities of ancient Roman Empire?
Q14 Explain the social classification of Roman Empire.
 Make a project file on any one of the following (Suggested topics)

                    a. Writing and city life

b. Development of writing in Mesopotamia Civilisation

c. An Empire across the three continent
d. Social and political conditions during Roman Empire

b. **Note: Learn and revise full syllabus of PT 1.**

13.PHYSICAL EDUCATION

1. Make a project
   A. On Basketball/Football/kabaddi/Kho-Kho./Foot ball/ Cricket .etc

2.. Bring practical file of physical education as shown in the image given here.