

TATA DAV Public School,WBC,Ghatotand

LOCKDOWN TIME HOME WORK

CLASS – STD. XII Science

Note:

- ✓ Use the Quarantine Period in productive way learn new things online.
- ✓ Use Homework Copy / Loose Sheet from Previous copy binding and labelling it properly.
- ✓ Content searching only Online mode (Avoid communication with friends.).
- ✓ Don't copy the content from friends copy (COVID-19 can communicate in that way also).
- ✓ For further any kind of information you can contact your class teacher.

Subject –Mathematics

1. Make the synopsis of all the formula and important points from all the chapters of std XI in a separate copy as a ready reference for std XII.
2. What is Relation? Define its Domain and Range with suitable examples.
3. What is Equivalence Relation ? What is disjoint Equivalence class ?
Take one example from your community where you can justify Equivalence Relation.
4. Show that relation R on set: $R = \{ (a,b) : |a - b| \text{ is even, } a,b \}$ is an Equivalence Relation.
5. Show that intersection of two Equivalence relation is an Equivalence relation but union is not necessarily an Equivalence relation.

Subject – Computer Science (Python)

- Q1. What is the difference between list and tuples in Python?
- Q2. What are the key features of Python?
- Q3. What type of language is python?
- Q4. How is Python an interpreted language?
- Q5. What is pep 8?
- Q6. How is memory managed in Python?
- Q7. What is name space in Python?
- Q8. What is PYTHON PATH?
- Q9. What are python modules?
- Q10. What are local variables and global variables in Python?
- Q11. Write short note on python modules matplotlib, Numpy, Pandas, Python IDE?
- Q12. How to write function in Python. Give one example?

Subject – Physics

- Q1 Complete your project for –Science Exhibition.
- Q2 Make PPTs on Electrostatics.
- Q3 Make a notes on Ray Optics
- Q4 Collect the information regarding the satellites launched by ISRO recently.
Make separate file for this assignment atleast of 15 pages and paste newspaper cuttings also.
- Q5 Explain the followings
- A] Properties of charges.
- B] Electric field lines and their properties
- C] Gauss's law and its applications.
- Q6 Prepare an Investigatory **Project** and a **Project Report File** .

General Guidelines:

The project chosen should be from any of the topics from XII class curriculum.

Some of them are listed below:

- (i) Electromagnetic Induction (ii) Diffraction of light (iii) Light Dependent Resistor (iv) Electroscope
(v) Eddy currents (vi) Transformer (vii) Logic gates (viii) Rectifier (ix) Photo diode

You can also choose any one from the suggested investigatory projects recommended by the CBSE.

Report of your project should be hand written and should be according to the format mentioned below.

Name/ Title of the project

List of components used along with their specifications

Theory/ principle behind the working of project

Related diagrams

Working in detail /procedure

Further modifications (if any) can be done

Bibliography.

Subject – Chemistry

- Solve numericals of chapter solution related to molarity , molality , and mole fraction (20 numericals) from NCERT in text and exercise.
- Solve 10 HOTS from solution ch- 02.

Subject - ECONOMICS

MACRO ECONOMICS

1. Write the meaning and distinguish between Micro & Macro Economics.
2. Define the followings and give examples:-
 - i) Final goods
 - ii) Intermediate goods
 - iii) Consumer goods
 - iv) Capital goods
 - v) Producers goods
3. Define Investment and distinguish between Gross and Net Investment.

4. What is Depreciation and what are its three main causes ? Explain.
5. What do you mean by stock and flow concept ? Explain with examples.
6. What is Economic Territory and what are the basic criterion for it ?
7. Who are called Normal Residents of a country and who are considered and who are not considered as Normal Resident? Explain with examples.
8. What is circular flow of income and what are its three different phases?
9. Distinguish between Real flow of income and Money flow of Income ?
10. What do you mean by Leakages and Injection in circular flow of income?
11. Define and distinguish between Domestic Income and National Income.
12. Write the meaning of Indirect Tax, Subsidies and Net Indirect Tax(NIT)
13. What is Net Factor Income from Abroad (NFIA) and what are its three main components ? Explain.
14. Explain the meaning and concept of following aggregate related of Domestic Income and National Income:-
 - a) GDP MP, GDP FC, NDP MP, NDP FC
 - b) GNP MP, GNP FC, NNP MP NNP FC
15. Distinguish between Nominal GDP and Real GDP and how are they interchanged? Explain with formula.
16. What is GDP Deflator and how is it related to Welfare ? Write limitations.
17. Define Value of Output, Intermediate consumption and Value added.
18. What are steps and precautions of National Income estimation by Value added method?
19. Write the various components and precautions of estimating National Income by Income Method.
20. What are the various components and precautions estimating National Income by expenditure method ?

INDIAN ECONOMIC DEVELOPMENT

1. Explain the important features of Indian Economy on the eve of independence.
2. Describe the conditions of agriculture in India during British rule.
3. State main features industries in India during British colonial rule in India ?
4. Why were the Indian handicraft industries destroyed by the Britisher and were its consequences ?
5. State the major features of Demography in India during the British rule.
6. What is occupational Structure and was its condition during British rule in India ?
7. Write the meaning of economic planning and explain the importance of economic planning in India ?
8. What were the common objective of five year planning introduced in India ? Explain
9. Explain the major problems in Indian agriculture by the time of independence in India.
10. Describe the important reformation strategy introduced and implemented in Indian agriculture during the planning period .
11. Explain the important features and achievements Green Revolution as a new strategy of Indian agriculture.
12. What were the important problems and causes of slow industrialization in India ? Explain.
13. State and explain the features of Industrial Policy Resolution- 1956 in India.
14. What do you mean by Small Scale industries and what are its significance ?
15. Critically examine the positive and negative impacts industrial policy adopted in India.
16. What were the main features India's foreign trade during post independence period.
17. Explain the new trade strategy and its objectives introduced in India after independence.
18. Explain the factors causing the needs of reformation measures introduced in 1991.

19. What is Liberalisation and what were major liberalization measures introduced in industrial and Financial sectors in India?
20. Define Globalisation and explain the positive and negative impacts Globalisation in India.