



SUMMER ASSIGNMENTS

“Let’s get inspired and gain knowledge every day to achieve success”

CLASS - XII COM



IMPORTANT INFORMATION

- ✚ Summer Comes with an excitement, warm weather and a break from regular ongoing task.
- ✚ School gives vacation to students with a touch of studies in the form of summer assignments.
- ✚ Summer assignments are planned for holistic development of students and are based on CBSE curriculum.
- ✚ Preparation Guidelines are provided to complete the summer assignments for every subjects.
- ✚ Worksheets are attached below every subject individually.
- ✚ The students are advised to complete the project /portfolio / Lab Manual, worksheet and EBSB project according to instruction and complete worksheet in subject notebook.
- ✚ Learning outcomes are also provided so that the student's will be able to know its benefits.
- ✚ For any queries the student can take teacher's help.



HOMEWORK

Benefits



Homework, also known as homework, is any tasks given by the teacher of a school to their students to be completed outside of class time. Homework helps students to review lessons taught in class and study them on their own.

1

Homework Improves Memory Power

2

Homework Enhances Concentration Power

3

Homework Strengthens Problem-Solving Skills

4

Homework Helps Students Get Better Grades

5

Homework Helps Students Excel In Future Tasks

6

Homework Teaches Discipline

7

Homework Helps Students Understand Lessons Better

8

Homework Helps Students Prepare For Exams

9

Homework Helps Students Develop Analytical Skills

10

Homework Stimulates Students' Imaginations



ASSIGNMENTS CHECKLIST



Lab Manuals

**Projects &
Worksheets**

Subject wise marks are included in Examination result



ENGLISH CORE (301)

CLASS-XII (COM & HUM)



Learning Objectives



This Project stimulates students to use language in a meaningful way. To express their ideas about their projects, they need to consolidate vocabulary and grammar forms by interacting and exploring on the particular topic. The Project work improves the reading and writing skills among students. The aim of this study was to determine the effect of project work on students' improvement in English language learning. The content analysis of recording and presentation of the projects enhance the student's knowledge on the particular topic.

PROJECT

General Instruction

English Project should be done on the following topics. Topics are given as per the roll number of the students. The Project should be done in A4 size paper and arrange properly in stick file.

The Project must contain the following pages. Students must write all these in beautiful handwriting and decorate the paper beautifully arranged it in proper order.

CLASS-XII SCI – SEC – A

Roll no- 1 to 10 (Commerce)

Paperless Currency the Future of the world economy.

Roll no – 11 to 20 (Commerce)

Globalisation and Plight of Farmer in India.

Roll no – 21 to 35 (Commerce)

Procrastination and importance of Time Management

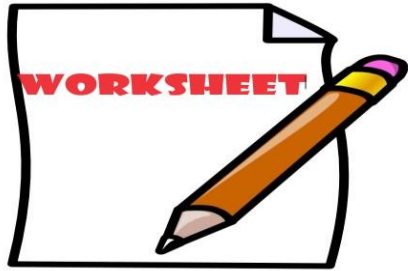
Roll no – 1 to 07 (Humanities)

Project Contents

- Cover Page - Title of the project
- Index
- Acknowledgement
- Certificate
- Objective
- Material required
- Action plan
- Content
- Questionnaire
- Report on Questionnaire
- Inference
- Conclusion

Paperless Currency the Future of the world economy.

- Students' reflection
- Application and Future Scope
- Bibliography



Worksheet is given below for your reference. Student will solve the worksheet in the subject notebook.



Through this project work students can able to develop their critical thinking skills as they learn to analyze, synthesize, and apply what they have learned. It enhances their creativity and fluency in English reading and writing skills.

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS -XII

SUB: ENGLISH (301)

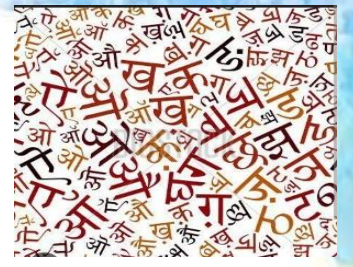
Students will solve the questions in the subject notebook.

1	"This is your last French lesson." How did Franz react to this declaration of M.Hamel? [Creativity]
2	What were the fear of poet as she looked at her mother in the poem " My mother at Sixty Six " [Critical reasoning]
3	Franz thinks, "Will they make them sing in German, even the pigeons?" What does this tell us about the attitude of the Frenchmen? [Analyze]
4	What a thunderclap these words were to me!" – Which were the words that shocked and surprised Franz? [Creativity]
5.	What helped Kamala Das put away the thought of her mother's old age? [Creativity]
6	Why has the mother been compared to the 'late winter's moon'? [Analyze]
7	What convinced Charley that he had reached the third level at Grand Central Station and not the second level? [Creativity]
8	How does Charley make his description of the third level very realistic? [Analyze]
9	Do you think that the third level was a medium of escape for Charley? Why? [Critical Thinking]
10	"When a people are enslaved, as long as they hold fast to their language it is as if they had the key to their prison." justify the statement in context to the story "The Last Lesson". [Analyze]
11	Do you see an intersection of time and space in the story "The Third Level" ? [Critical Thinking]
12	The modern world is full of insecurity, fear, war, worry and stresses. What are the ways in which we attempt to overcome them? [Analyze]
13	What poetic devices have been used by Kamala Das in 'My Mother at Sixty-six'? [Creativity]

14	What is the theme of the story the third level?	[Creativity]
15	<p>Write a letter in response to the following advertisement :</p> <p style="text-align: center;">Indian Pharmaceuticals Greater Noida , New Delhi Required trainee Medical Representatives</p> <p>Candidate should be Science or Pharmacy graduate and below 25 years of age. Fluency in English and any one of the regional languages is essential. Attractive stipend with handsome working allowances will be offered during training period. After successful completion of the training, the candidates will be appointed on regular basis. Please apply with complete resume and a passport size photograph at the above address.</p>	[Creativity]



HINDI (302)



LEARNING OBJECTIVES



- * "आत्मपरिचय" पाठ के माध्यम से कविता के भावार्थ को समझने में आसानी हुई।
- * कविता में प्रयुक्त अलंकार की पंक्तियों को रेखांकित करवाना ।
- * कविता की भाषा से अवगत कराना।
- * "दिन जल्दी जल्दी ढलता है" कविता के माध्यम से पक्षी और कवि के एकांकीपन को समझना।
- * परियोजना कार्य के माध्यम से छात्रों के अंदर परियोजना कार्य के महत्व को समझना ।
- * सृजनात्मक कौशल का विकास करना।

PROJECT

सामान्य निर्देश:

- * फाइल के प्रारंभ में स्कूल का फ्रंट पेज, आभार ज्ञापन, घोषणापत्र, अभिस्वीकृति, प्रमाण पत्र को प्रिंट करवाना अनिवार्य।
- * फाइल के पहले पेज में स्कूल का नाम, व्यक्तिगत परिचय, नाम, कक्षा, क्रमांक, विषय, शीर्षक एवं स्कूल का लोगो होना अनिवार्य।
- * आभार ज्ञापन, प्रमाणपत्र के साथ प्रधानाचार्य हस्ताक्षर, शिक्षक हस्ताक्षर का कॉलम अवश्य बनाएं।
- * परियोजना कार्य में अनुक्रमणिका (INDEX) विषयसूची, पेज नंबर अंकित करें।
- * सभी हिंदी परियोजना कार्य फाइल में करना है।
- * हिंदी परियोजना कार्य को अधिक सुंदर बनाने के लिए विभिन्न रंगों का प्रयोग करना अनिवार्य है।
- * फाइल को बैडिंग करते समय क्रम का विशेष ध्यान रखें।
- * फाइल में विषय का प्रस्तुतीकरण, विषय का विस्तार, उद्देश्य, अध्ययन की सीमाएं, परिकल्पना, समस्या का बयान, स्रोत एवं संदर्भ ग्रंथ और, निष्कर्ष, अध्ययन का परिणाम अध्यापक टिप्पणी का होना अनिवार्य।

प्रश्न:1 पत्रकारिता किसे कहते हैं एवं पत्रकारिता कितने प्रकार की होती है इसके स्वरूप और विशेषताओं के बारे में लिखिए।

Topic:1 पत्रकारिता

प्रश्न:2 नाटक के कितने तत्व होते हैं? नाटक लिखते समय किन बातों को ध्यान रखना

Topic:2 नाटक

चाहिए। किन्हीं पाँच नाटककार लेखकों का वर्णन कीजिए।

प्रश्न: 3 कहानी लेखन में कथावस्तु, पात्र-चरित्र, वातावरण, देशकाल, भाषा-शैली, उद्देश्य, निष्कर्ष आदि महत्वपूर्ण क्यों माने जाते हैं? इनका विस्तृत रूप से वर्णन कीजिए। किन्हीं पाँच कहानीकारों की रचनाओं को लिखिए।

प्रश्न :4 आदिकाल का प्रारंभ कब से हुआ? आदिकाल की विशेषताओं का वर्णन करते हुए पाँच कवियों की रचनाओं को लिखिए।

प्रश्न:5 समाचार लेखन किसे कहते हैं? समाचार लेखन की कितनी शैलियाँ होती हैं? वर्तमान समय में समाचार पत्र का क्या प्रभाव एवं महत्व है?

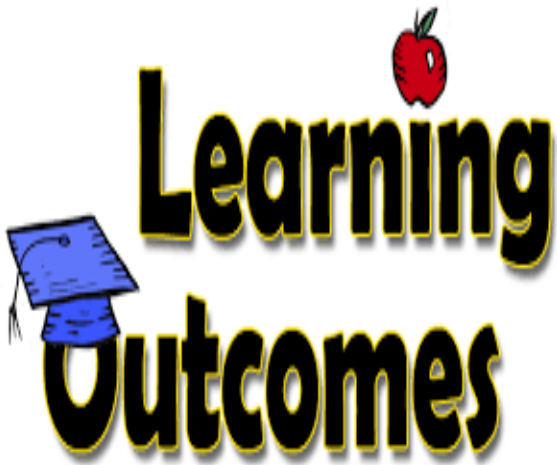
Topic:3 कहानी लेखन

Topic:4 आदिकाल

Topic:5 समाचार लेखन



छात्र नीचे दी गई वर्कशीट को हिंदी विषय नोट बुक में हल करें।



* "आत्मपरिचय" पाठ के माध्यम से छात्रों ने कवि की जीवन जीने की शैली को जानने का प्रयास किया।

* "आत्मपरिचय" पाठ के माध्यम से छात्रों ने समाज के प्रति अपने कर्तव्यों के बारे में समझ पैदा की।

* "दिन जल्दी-जल्दी ढलता है" इस पाठ के माध्यम से छात्रों ने समय की गतिशीलता के बारे में जानकारी प्राप्त की। इसलिए हमें समय रहते ही अपने लक्ष्य को प्राप्त करना चाहिए।

* परियोजना कार्य के माध्यम से छात्रों के अंदर सकारात्मक सोच, अभिव्यक्ति, व्यवहारिक ज्ञान, समझ, आत्मविश्वास आदि की समझ प्राप्त की।

* समाचार लेखन के माध्यम से छात्रों ने संपूर्ण देश, समाज आदि की जानकारी घर बैठे-बैठे प्राप्त करने में समर्थ होंगे।

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS - XII

SUB: HINDI (302)

Students will solve the questions in the subject notebook.

1	कवि स्नेह सुरा का पान कैसे करता है? (सोच आधारित प्रश्न)
2	"जग जीवन का भार और फिर भी जीवन से प्यार" यहाँ कवि ने जीवन के संदर्भ में यह विरोधी बात क्यों कही है? (समस्या समाधान आधारित प्रश्न)
3	संसार में कष्टों को सहकर भी खुशी का माहौल कैसे बनाया जा सकता है? (समस्या समाधान आधारित प्रश्न)
4	कवि को संसार अच्छा क्यों नहीं लगता है? (सोच पर आधारित प्रश्न)
5	कवि सीखे ज्ञान को क्यों भुला रहा है? (समस्या समाधान आधारित प्रश्न)
6	कवि और संसार के बीच क्या विरोधी स्थिति है? (रचनात्मक कौशल पर आधारित प्रश्न)
7	कवि के पास ऐसा क्या है? जिस पर बड़े-बड़े राजा न्योछावर हो जाते हैं? (समस्या समाधान आधारित प्रश्न)
8	कवि स्वयं को क्या कहना पसंद करता है और क्यों? (समस्या समाधान आधारित प्रश्न)
9	"हो जाए न पथ में " यहाँ किस पथ की ओर कवि ने संकेत किया है? (रचनात्मक कौशल पर आधारित प्रश्न)
10	चिड़ियों के परों में चंचलता आने का क्या कारण है? (रचनात्मक कौशल पर आधारित प्रश्न)
11	चिड़ियों के घोंसलों में किस दृश्य की कल्पना की गई है? (विश्लेषण विधि पर आधारित प्रश्न)
12	"मैं होऊँ किसके हित चंचल" का भाव स्पष्ट कीजिए। (रचनात्मक कौशल पर आधारित प्रश्न)
13	"आत्मपरिचय" कविता का प्रतिपाद्य लिखिए। (सोच आधारित प्रश्न)



COMPUTER SCIENCE (083)



LEARNING OBJECTIVES



Learning programming can help students to develop problem-solving skills, open up career opportunities, foster creativity, automate tasks, and promote personal development.

The aim of this Assignment is to engage students in critical thinking and encourage them to practice programming at home during holidays.

Through Writing Lab Manuals Students will be aware about Python Programming modules, file handling concepts and use of user defined functions.

The class project will help students to create something that is tangible and useful using Basic Objective & System design. Later on, it will augment with Python file handling/ Python SQL connectivity. Students will learn to find real world problem that is worthwhile to solve through Python Programming.

LAB MANUAL

PROJECT

General Instructions:

Students will practice the given program in Python IDLE/Online compilers and then write the programming in Computer Lab Record.

General Instructions:

Students will prepare the project in any one topic given below in MS Word up to System Design and take print out. Attach print out in stick file with School Cover Page. No spiral binding is required.

Assignment 5: Create a user defined function to check leap year.

Assignment 6: Create a user defined function to check a number is a prime number or a composite number.

Assignment 7 : Create a user defined function to Display the terms of a Fibonacci series.

Assignment 8 : Read a text file line by line and display each word separated by a #

Assignment No. 9 : Read a text file and display the number of vowels /consonant /uppercase/lowercase characters in the file.

Assignment No. 10 : Write a program to get student data from user and write on the binary file.

Topic 1: Health Care system

Topic 2: Polling System

Topic 3: Booking System

Topic 4: Grade Generation System

Topic 5: Electricity Bill Management

Topic 6: Quiz Game

Topic 7: Fitness Expert

Topic 8 : Gym Management System



Worksheet is given below for your reference. Student will solve the worksheet in the subject notebook,



After Completing this Assignment, the students will be able to efficiently use user-defined functions in Python and will develop a prior Knowledge about the Project coding. It will Boosts their logical thinking and problem-solving skills. It will also make them confident in developing mini applications.

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS - XII

SUB: COMPUTER SCIENCE (083)

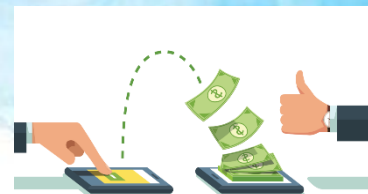
Students will solve the questions in the subject notebook.

1	Draw a Schematic representation of Tokens in Python.	[Creative]
2	State True /False Index value in list and string start from 0.	[Critical reasoning]
3	Compare Mutable & Immutable Data Type in Python.	[Analyze]
4	Suresh wants to create a mini application in Python which will display calendar if year and months are entered by the user. Suggest a Python code to solve the purpose.	[Application Based]
5.	Which of the following will give output as [21,2,9,7] ? if list L = [1,21,4,2,5,9,6,7] a. print(L[1 : 8 : 2]) c. Both of the above	[Critical Thinking]
6	Get the output numbers = [1, 2, 3, 4, 5, 6, 7] res = [x * x for x in numbers] print(res)	[Problem Solving]
7	Get the output list=[1,2,3] print('list before delete', list) del list [1] print('list after delete', list)	[Problem Solving]
8	Convert the for loop to while loop. for tx in range (10,110,10): print (tx)	[Problem Solving]
9	Get the output list1 = [5, 10, 15, 20, 25, 50, 20] # get the first occurrence index index = list1.index(20) # update item present at location list1[index] = 200 print(list1)	[Problem Solving]

10	<p>What will be the output?</p> <pre> a = 4 i = 0 while i<a: print(i) i+=1 if i>1: break </pre>	[Problem Solving]
11	<p>A tuple name subject stores the name of different subjects. Write the python code to convert the given tuple to a list and thereafter delete the last element of the tuple.</p>	[Critical Thinking]
12	<p>Solve the Expression</p> $66/6*4-4+10$	[Problem Solving]
13	<p>Find and write the output of the following python code:</p> <pre> Msg="CompuTer" Msg1='' for i in range(0, len(Msg)): if Msg[i].isupper(): Msg1=Msg1+Msg[i].lower() elif i%2==0: Msg1=Msg1+'*' else: Msg1=Msg1+Msg[i].upper() print(Msg1) </pre>	
14	<p>Anita wants to write statement to pick out the keys? Read the code shown below carefully and help her in completing python code.</p> <pre> d = {"john":40, "peter":45} </pre>	[Application Based]
15	<p>How to get the output “road map” from the string? “arithmetic solutions depth ”</p>	[Critical Thinking]



ACCOUNTANCY (055)



LEARNING OBJECTIVES



Objectives of project work is

1. To enable a student to complete the accounting process.
2. To develop competency to read analyse and interpret the accounting data of the enterprise and present the study preparing project file.
3. Apply the tool of analysis to develop research work to complete the undertaken project.

PROJECT

General Instructions:

- The project should be hand written
- The project should be presented in a neat strip file.
- Creativity is necessary for each page according to the accounting information.

Students have to prepare one specific project based on financial statement analysis of a company covering any two aspects from the following:

Topic 1: Cash flow statement

Topic 2: Segment Reports

Topic 3: Accounting Ratio

Topic 4: Comparative and Common financial statements.



Worksheet is given below for your reference. Student will solve the worksheet in the subject notebook,



After completing this summer assignment student will be able to

- Understand the role of Accounting in organizing & running a Business.
- To develop the skills about Company information and financial statements.
- Helps in applying knowledge in real life situation.

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS - XII

SUB: ACCOUNTANCY (055)

Students will solve the questions in the subject notebook.

1	<p>C and D are partners in a firm; C has contributed 1,00,000 and D ₹60,000 as capitals. Interest is payable 6% p.a. and D is entitled to salary of 3,000 per month. In the year ended 31st March, 2020, the profit was 80,000 before interest and salary. Prepare Profit and Loss Appropriation Account.</p> <p style="text-align: right;">(Problem solving questions)</p>
2	<p>State the provisions of Indian partnership act regarding the payment of remuneration to partner for the service rendered.</p> <p style="text-align: right;">[Knowledge Based]</p>
3	<p>A and B are partners. A's Capital is ₹ 1,00,000 and B's Capital is 60,000. Interest on capital is payable 6% pa. Bis to get salary of ₹ 3,000 per month. Net Profit for the year is 80,000 Prepare Profit and Loss Appropriation Account.</p> <p style="text-align: right;">(Problem solving questions)</p>
4	<p>Y and Z are partners in a firm sharing profits in the ratio of 2:2:1. Fixed capitals of the partners were 5,00,000, Y ₹ 5,00,000 and Z ₹ 2,50,000 respectively. The Partnership Deed provides that interest on capital is to be allowed 10% pa. Z is to be allowed a salary of 2.000 per month. Profit of the firm for the ymar ended 31st March, 2020 after debiting Z's salary was ₹ 4,00,000. Prepare profit and loss appropriation account.</p> <p style="text-align: right;">(Knowledge based questions)</p>
5	<p>State the two situations in which interest on partners capital is provided.</p> <p style="text-align: right;">(Situation based questions)</p>
6	<p>Distinguish between fixed and fluctuating capitals.</p> <p style="text-align: right;">(Knowledge based)</p>
7	<p>Ashish and Aakash are partners sharing profits in the ratio of 3:2. Their Capital Accounts had credit balances of 5,00,000 and 6,00,000 respectively as on 31st March, 2020 after debit of drawings during the year of 150,000 and ₹ 1,00,000 respectively, Net profit for the year ended 31st March, 2020 was 5,00,000 interest on capital is to be allowed 10% p.a.</p>

	<p>Pass the Journal entry for interest on capital and prepare Profit and Loss Appropriation Account</p> <p style="text-align: right;">(Problem solving questions)</p>
8	<p>If A draws Rs 15,000 every month at the end of the month, what will be the interest @5% p. a?</p> <p style="text-align: right;">(Problem solving questions)</p>
9	<p>Following differences have arisen among P, Q and R. State who is correct in each case:</p> <p>(a) P used 20,000 belonging to the firm and earned a profit of ₹ 5,000.0 and R want the amount to be given to the firm.</p> <p>(b) Q used 5,000 belonging to the firm and incurred a loss of ₹ 1,000. He wants the firm to bear the loss.</p> <p>(c) P and Q want to purchase goods from A Ltd., R does not agree.</p> <p>(d) Q and R want to admit C as partner, P does not agree.</p> <p>(e) R had given loan of ₹ 1,00,000 to the firm and demands interest 10% p.a. P and Q do not want to pay the interest. (Critical thinking questions)</p> <p style="text-align: right;">(Problem solving questions)</p>
10	<p>Amar and Bimal entered into partnership on 1st April, 2019 contributing 1,50,000 and 2,50,000 respectively towards capitals. The Partnership Deed provided for interest on capitals @ 10% pa. It also provided that Capital Accounts shall be maintained following Fixed Capital Accounts Method. The firm earned net profit of ₹ 1,00,000 for the year ended 31st March, 2020. Pass the Journal entry for interest on capital. (Application based questions)</p> <p style="text-align: right;">(Problem solving questions)</p>
11	<p>Kamal and Kapil are partners having fixed capitals of ₹ 5,00,000 each as on 31st March, 2019. Kamal introduced further capital of ₹ 1,00,000 on 1st October, 2019 whereas Kapil withdrew ₹ 1,00,000 on 1st October, 2019 out of capital. Interest on capital is to be allowed 10% p.a. The firm earned net profit of 6,00,000 for the year ended 31st March, 2020.</p> <p>Pass the Journal entry for interest on capital and prepare Profit and Loss Appropriation Account.</p> <p style="text-align: right;">(Application based questions)</p>



BUSINESS STUDIES

(054)



LEARNING OBJECTIVES



The purpose of this project to teach school students the value of investing and utilizing the stock market. The project work also aims to empower teacher to relate all the concepts wit what is happening around the world and the students surrounding. Making them appear more clear and context. This will enable the students to enjoy studies.

PROJECT

General Instructions:

- The project should be hand written.
- Cover page should include the title of project, student information, school a year.
- Topic with suitable heading.
- List of content
- Planning and activities done during the project, if any.
- Observations and findings of the visit.
- Conclusions (summarized suggestions or findings, future scope of study).
- Photographs (if any).
- The project should be presented in a strip file.

Topic 1: Elements of Business Environment

Topic 2: Principles of Management

Topic 3: Stock Exchange

Topic 4: Marketing Management



Worksheet is given below for your reference. Student will solve the worksheet in the subject notebook.



After doing this project work, students will be able to understand the following:-

1. To get involved in the process of research work.
2. To demonstrate his or her capabilities while working independently.
3. To develop practical approach by using modern technology.

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS - XII

SUB: BUSINESS STUDIES (054)

Students will solve the questions in the subject notebook.

1	Draw a three levels of management with examples.	[Creative]
2	State True /False Management is needed in all types of organisation.	[Critical reasoning]
3	Compare the between efficiency and and effectively.	[Analyze]
4	Management help to implement new changes in the organisation. "Which importance of management is referred in this statement.	[Application Based]
5.	A lawyer has to become a member of Bar Council, to practice law in India. Which feature of the professional is being highlighted.	[Critical Thinking]
6	Why a management an intangible force ? State .	[Knowledge based]
7	At which level of management the manager are responsible for the welfare and survival of the organisation .	[Problem Solving]
8	Give the meaning of process in the definition of management.	[Knowledge based]
9	Which level manager are responsible for coordination and Why?	[Critical thinking]
10	Mars India Ltd. conducted a social audit to determine the extent to which the company is discharging its obligations. Identify the objective which the company is trying to achieve.	[Case based question]
11	Management is a series of continuous interrelated function . Comment .	[Critical Thinking]
12	Explain five features of management ?	[Knowledge based]
13	Management is professional like medical or legal profession. Do you agree with this statement? Give any five reasons in support of your answers.	[Application based]
14	Coordination is the essence of management . Explain how ?	[Critical Thinking]

ECONOMICS (030)



LEARNING OBJECTIVES



Students will learn about GST, BOP, Government Budget, Importance of Digital India, Role Government to correct poverty, unemployment etc., Role of RBI and its credit controller, Role foreign exchange market to determine the Forex rate.

PROJECT

General Instructions:

Students should use the process given below for completing the project in A4 size paper and must be handwritten and submitted inside stick file including School Cover page.

1. Choose a title/topic
2. Collection of the research material/data
3. Organization of material/data
4. Present material/data
5. Analysing the material/data for conclusion
6. Draw the relevant conclusion
7. Presentation of the Project Work

Suggestive List of Projects:

- Goods and Services Tax Act and its impact on GDP
- Balance of Payment
- Government Budget and its components
- Digital India Steps towards the Future
- Contemporary Employment Situation in India
- Role of RBI in Control of Credit
- Exchange Rate Determination-Methods and Techniques



Worksheet is given below for your reference. Student will solve the worksheet in the subject notebook.



Students would know GST, and its Implications in their daily life, Government Budget and its component's Importance of Digital India, Role Government to correct poverty, unemployment etc., Role of RBI and its credit controller, Role foreign exchange market to determine the Forex rate.

6	<p>On the basic of above diagram , state which of the following indicates to flow variables?</p> <p>(a) Deposits of Rs 10000 per month (b) Saving A/C balance Rs.25000 (c) Withdrawal of Rs.5000 per month (d) Both (a) and (c)</p> <p style="text-align: right;">(Competency Based)</p>
7	<p>Giving valid reasons, classify the following into stock and flow variables:</p> <p style="text-align: right;">(CBSE 2022, Set 1)</p> <p>(i) Population of India as on 31st March ,2022 (ii) Domestic Income of Indian Economy during the fiscal year 2021-22.</p>
8	<p>As a student of economic, how would you distinguish between capital goods and capital stock?</p> <p style="text-align: right;">(Analytical)</p>
9	<p>The Government of India Asserts that MGNREGA (Mahatma Gandhi National Rural Employment Guarantee Act) is to be related to assets creation. How so you evaluate this statement.</p> <p style="text-align: right;">(Critical Thinking)</p>
10	<p>If depreciation reserve fund is not maintained, production capacity in the economy would tend to reduce. Do you agree?</p> <p style="text-align: right;">(Application Based)</p>
11	<p>All machines are not capital goods. Justify.</p> <p style="text-align: right;">(Critical Thinking)</p>
12	<p>“Final goods include only those goods which are consumed by the household.” Defend or refute the given statement with valid reason.</p> <p style="text-align: right;">(Application Based)</p>



LEARNING OBJECTIVES



The Mathematics promotes mathematical skills and knowledge for their intrinsic beauty, effectiveness in developing proficiency in analytical reasoning, and utility in modeling and solving real world problems. To responsibly live within and participate in the transformation of a rapidly changing, complex, and interdependent society, students must develop and unceasingly exercise their analytical abilities. Students who have learned to logically question assertions, recognize patterns, and distinguish the essential and irrelevant aspects of problems can think deeply and precisely, nurture the products of their imagination to fruition in reality, and share their ideas and insights while seeking and benefiting from the knowledge and insights of others.

LAB MANUAL

PROJECT

General Instructions :

Write the following activities in Mathematics Lab Manual :

General Instructions:

Students will prepare the project in any one topic given below in MS Word and take print out. Attach print out in stick file with School Cover Page. No spiral binding is required.

Activity 1 : To verify that the relation R in the set L of all lines in a plane, defined by $R = \{ (l, m) : l \perp m \}$ is symmetric but neither reflexive nor transitive.

Activity 3 : To demonstrate a function which is not one one but is onto. **Activity 5 :** To draw the graph of $\sin^{-1}x$ using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$).

Activity 8 : To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base e) of the number x .

Activity 9 : To find analytically

Project 1 : To minimise the cost of the food, meeting the dietary requirements of the staple food of the adolescent students of your school.

Project 2 : Estimation of the population of a particular region/country under the assumptions that there is no migration in or out of the existing population in a particular year.

Project 3 : Finding the coordinates of different points identified in your classroom using the concepts of three dimensional geometry and also find the distances between the identified points.

Project 4 : Formation of differential

the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.

equation to explain the process of cooling of boiled water to a given room temperature.



*Worksheet is given below for your reference.
Student will solve the worksheet in the subject notebook.*



After completing this assignment, students will be able to understand the properties of graphs of relations and functions. Along with this, Students will also be able to understand the graphs of trigonometric functions completely.. The main outcome of this assignment is to help students strengthen their mathematical knowledge and skills. This will boost their logical thinking and problem-solving skills.

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS : XII

SUB : MATHEMATICS (041)

Students will solve the questions in the subject notebook.

1	A function $f : A \rightarrow B$ defined as $f(x) = 2x$ is both one-one and onto. If $A = \{1,2,3,4\}$, then find the set B. [Application Based]
2	Prove that the function f is surjective, where $f : N \rightarrow N$ such that $f(n) = \begin{cases} \frac{n+1}{2}, & \text{if } n \text{ is odd} \\ \frac{n}{2}, & \text{if } n \text{ is even} \end{cases}$ Is the function injective? Justify your answer. [Creative]
3	Check whether the relation R in the set Z of integers defined as $R = \{(a, b) : a + b \text{ is "divisible by 2"}\}$ is reflexive, symmetric or transitive. Write the equivalence class containing 0 i.e. $[0]$. [Analyze]
4	Check if the relation R in the set R of real numbers defined as $R = \{(a, b) : a < b\}$ is (i) symmetric, (ii) transitive. [Critical Thinking]
5	Check if the relation R in the set $A = \{1, 2, 3, 4, 5, 6\}$ defined as $R = \{(x, y) : y \text{ is divisible by } x\}$ is (i) symmetric (ii) transitive. [Critical Thinking]
6	A relation R is defined on a set of real numbers R as $R = \{(x, y) : x \cdot y \text{ is an irrational number}\}$. Check whether R is reflexive, symmetric and transitive or not. [Critical Reasoning]
7	Show that a function $f : R \rightarrow R$ defined as $f(x) = \frac{5x-3}{4}$ is both one-one and onto. [Analyze]
8	Let $f : R - \{-\frac{4}{3}\} \rightarrow R$ be a function defined as $f(x) = \frac{4x}{3x+4}$. Show that f is a one-one function. Also, check whether f is an onto function or not. [Critical Reasoning]
9	A function $f : [-4, 4] \rightarrow [0, 4]$ is given by $f(x) = \sqrt{16 - x^2}$. Show that f is an onto function but not a one-one function. Further, find all possible values of a for which $f(a) = \sqrt{7}$. [Analyze]
10	Given, a non-empty set X , define the relation R in $P(X)$ as follows For $A < B \in P(X)$, $(A, B) \in R$ iff $A \subset B$. Prove that R is reflexive, transitive and not symmetric. [Creative]
11	Write the domain and range (principle value branch) of the following function $f(x) = \tan^{-1}x$. [Problem Solving]
12	Find the value of $\tan^{-1} \left[2 \cos \left(2 \sin^{-1} \frac{1}{2} \right) \right] + \tan^{-1} 1$. [Application Based]
13	Evaluate $\sin^{-1} \left(\sin \frac{3\pi}{4} \right) + \cos^{-1} \left(\cos \frac{3\pi}{4} \right) + \tan^{-1} (1)$. [Application Based]
14	Find the domain of $y = \sin^{-1}(x^2 - 4)$. [Problem Solving]

15	Evaluate $\cos^{-1} \left[\cos \left(-\frac{7\pi}{3} \right) \right]$. [Application Based]
16	Evaluate $3 \sin^{-1} \left(\frac{1}{\sqrt{2}} \right) + 2 \cos^{-1} \left(\frac{\sqrt{3}}{2} \right) + \cos^{-1} (0)$. [Application Based]
17	Draw the graph of $f(x) = \sin^{-1} x, x \in \left[-\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right]$. [Creative]
15	Find the value of $\sin^{-1} \left[\cos \frac{33\pi}{5} \right]$. [Problem Solving]
19	Find the value of $\sin^{-1} \left[\sin \frac{13\pi}{7} \right]$. [Problem Solving]
20	Express $\tan^{-1} \left(\frac{\cos x}{1 - \sin x} \right), \frac{-3\pi}{2} < x < \frac{\pi}{2}$ in the simplest form. [Problem Solving]



PHYSICAL EDUCATION

(048)



LEARNING OBJECTIVES



Students will understand the principles and importance of effective management in sports events.

Students will identify the key components involved in planning, organizing, and executing sports events.

They will develop skills in budgeting, marketing, logistics management, and contingency planning for sports events.

Apply theoretical knowledge to practical scenarios through case studies and simulations.

LAB MANUAL

General Instructions:

Complete the Lab Manual. The Manual Must contain

- Introduction
- Battery of Test
- Test description
- Rules & regulations
- Do's & Don'ts
- Comment

Practical-1: Fitness Tests Administration. (SAI Khelo India Test)



Worksheet is given below for your reference. Student will solve the worksheet in the subject notebook.

Learning Outcomes

Students will enhance their knowledge and Promotes Fitness And Physical Growth. Students will able to classify, Demonstrate , Explain, Express , Illustrates and recognize Different tests. At the end students can evaluate the success of sports events and analyze areas for improvement.

SANSKAR PUBLIC SCHOOL, RAIGARH

WORKSHEET

CLASS -XII

SUB: PHYSICAL EDUCATION (048)

Students will solve the questions in the subject notebook.

1	Draw a fixture of six teams using round robin method.	[Creative]
2	Draw a fixture of 9 teams using round robin method.	[Creative]
3	Draw knock-out fixture for 27 teams. where 4 teams are given special seeding.	[Creative]
4	Explain the planning process in sports or state the importance of planning in sports. .	[Knowledge Based]
5	Draw a knock-out fixture for 25 teams with all steps involved.	[Creative]
6	Draw a knock-out fixture for 19 teams mentioning all the steps involved.	[Creative]
7	Mauli wants to gain knowledge on various sports program. Suggest her what do you mean by community sports programs? Explain any three.	[Case Based]
8	League tournament is a better way to judge the best team of tournament comment.	[Critical Thinking]
9	Your school is organizing "Run for unity" explain the responsibilities of accreditation technical and finance committee.	[Knowledge Based]
10	Explain the meaning of sports management.	[Knowledge Based]
11	Draw a fixture of 16 teams using knock-out cum league method.	[Creative]
12	Briefly explain about any three community sport's programmers.	[Knowledge Based]
13	Define the terms 'Bye' and 'Seeding' or what do you mean by "seeding"?	[Critical Thinking]