



ST. CONRAD'S INTER COLLEGE, AGRA

SUMMER HOLIDAY HOMEWORK FOR ACADEMIC SESS2024-25

CLASS – X

English

All work should be done in proper project file.

File should be properly covered, neatly, decorated and covered with cellophane transparent sheet.

The work should be done in proper sequence given below-

- Acknowledgement

- Index

- English Literature

1. Character sketch of Brutus.

2. Paraphrase of any one poem of your syllabus.

- English Language

1. Speech of any famous personality.

2. Book review OR Film review.

Note: - The matter should be well supported by the pictures available on the internet.

Hindi

हिंदी परियोजना (Hindi Project)

- 1- निबंध (2)

- 2- पाठ्य पुस्तक साहित्य सागर की किसी भी एक कहानी का सारांश तथा मुख्य पात्र का चरित्र। चित्रण कीजिए

1. 3- साहित्य सागर की (द्वितीय पुस्तक)

2. पद्य भाग में से पढ़ाई गई किसी भी एक कविता का भावार्थ तथा कवि का परिचय

SUPW

1. One Mandala

2. One Madhubani on A3 size

3. Pencil work pages in book.



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PHYSICS

Read Chapter 3 MACHINES.

Do the numericals of this chapter in your fair note book.

Chemistry

- ➔ Complete exercises of Chapter 5 Mole concept contents as discussed in the class.
- ➔ Revise all the chapters done in the class.

Biology

Complete the following experiments in your biology practical file.

1. To study the mitotic cell division in an animal cell.
2. To demonstrate the rate of transpiration by using Ganong's potometer. (fig. 5.5)
3. To show unequal rate of transpiration in a dorsiventral leaf from the two surfaces. (fig. 5.9)
4. To show that oxygen is evolved during photosynthesis. (fig. 6.8)
5. To show that chlorophyll is necessary for photosynthesis (fig. 6.5)
6. To study the internal structure of a human heart. (fig. 8.7)
7. To study the internal structure of a human kidney (L. S) (fig. 9.2 A)
8. To study the internal structure of a human brain. (fig. 10.7)
9. To study the internal structure of a human eye. (fig. 11.2)
10. To study the internal structure of a human ear. (fig. 11.9A)

GEOGRAPHY

Prepare a Practical File of 30 pages on any **One** topic given below:-

3. Wildlife Conservation
4. Development of Tourism in India
5. Transport in India
6. Need for Industrialization in India.

History civics

Prepare a project of 35 pages in the practical file on any one of the topics

1. Any one president of India till date
2. Highlight the Work and achievements of Nobel laureate Malala Yousafzai or Kailash Satyarthi
3. Prepare a report on the contribution of anyone agency of the UNO: UNESCO, WHO and UNICEF

Last date for the submission: 15 July



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Computer science

Write these programs in JAVA. Try them in BlueJ on your system and fair it out in your classwork copy.

1. WAP to input a day, month and year. Check and print if it is a valid date or not.

2. Write a program to input 10 integers and check whether all the entered numbers are same or not. For Example,

INPUT:

Enter 10 numbers: 10 12 13 234 45 34 67 78 76 12

OUTPUT:

All numbers are not same.

INPUT:

Enter 10 numbers: 12 12 12 12 12 12 12 12 12 12

OUTPUT:

All numbers are same.

3. Using the switch statement, write a menu driven program for the following:

a) To input a number and display only those factors of the number which are prime.

Sample Input:84

Sample output 2,3,7

b) A program that displays the multiplication table from 1 to 10 as shown:

1 2 3 4 5 6 7 8 9 10

2 4 6 8 10 12 14 16 18 20

3 6 9 12 15 18 21 24 26 30

.....

.....

10 20 30 40 50 60 70 80 90 100

4. A library charges a fine for books returned late. Following are the fine rates:

Days

Fine

1-5

40 paisa /day

6-10

65 paisa per day

Above 10 days

80 paisa per day

WAP to input the number of days book is returned late. Calculate and print the fine assuming the book is returned n days late.

5. Write a program to generate all 2 digit twisted prime number. Twisted prime number is a number which is prime and its reverse is also prime. Example 13 and 31.



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Economics

Project Work

1. Make a project on Money- it's origin (stages of money- how the money evolved), types (legal and non- legal money), functions of money, denominations used in different parts of the world.
(Alongwith the photographs)
2. Make a project on Banking sector.
Compare any 2 public sector banks. (Central Bank and Commercial Bank)
Meaning (Central Bank and Commercial Bank)
For eg. You may compare them on the basis of capital, functions of both the banks, procedure to open a bank account (savings/ current/ RD/ FD/ PPF), Difference between RD, FD, Savings and Current account, Payments Bank (atleast 4), Merits, demerits and precautions of Payment Banks, products offered, turnover, profit, shareholding, etc)
3. Each project should be of 30 pages each.
4. Use interleaves sheets and project file for the project.
5. Use photographs in the project
6. The format for the project will be
 - a) Acknowledgement
 - b) Teacher's certificate
 - c) Introduction
 - d) Matter of the project
 - e) Conclusion
 - f) Bibliography

Commerce

Project Work

1. Design a marketing plan for the launch of a new soap in the price range of 15-20rs
2. Make a report on the new forms of market and marketing such as telemarketers (Marketing through phones), Home shopping (catalogues like Burlingtons, etc) Direct marketing (example Eureka Forbes). What is their relevance in future and why?
3. Do the holiday homework in Project file on the interleave sheets.



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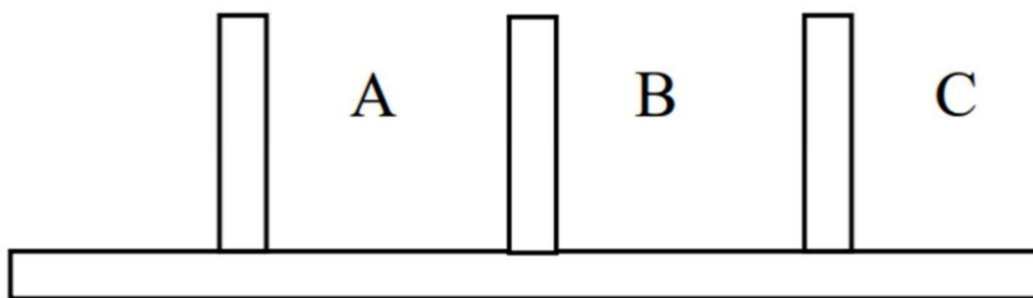
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MATHEMATICS

Suggested Assignments

- Comparative newspaper coverage of different items.
- Survey of various types of Bank accounts, rates of interest offered.
- Planning a home budget.
- Conduct a survey in your locality to study the mode of conveyance / Price of various essential commodities / favourite sports. Represent the data using a bar graph / histogram and estimate the mode.
- To use a newspaper to study and report on shares and dividends.
- Set up a dropper with ink in it vertical at a height say 20 cm above a horizontally placed sheet of plain paper. Release one ink drop; observe the pattern, if any, on the paper. Vary the vertical distance and repeat. Discover any pattern of relationship between the vertical height and the ink drop observed.
- You are provided (or you construct a model as shown) - three vertical sticks (size of a pencil) stuck to a horizontal board. You should also have discs of varying sizes with holes (like a doughnut). Start with one disc; place it on (in) stick A. Transfer it to another stick (B or C); this is one move (m). Now try with two discs placed in A such that the large disc is below, and the smaller disc is above (number of discs = $n=2$ now). Now transfer them one at a time in B or C to obtain similar situation (larger disc below). How many moves? Try with more discs ($n = 1, 2, 3$, etc.) and generalise.



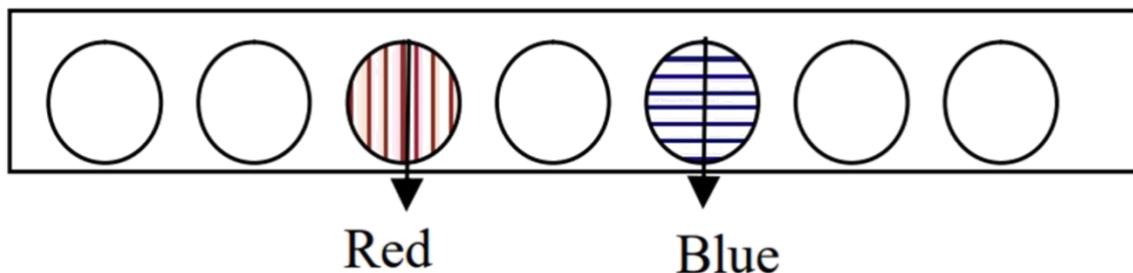
- The board has some holes to hold marbles, red on one side and blue on the other. Start with one pair. Interchange the positions by making one move at a time. A marble can jump over another to fill the hole behind. The move (m) equal 3. Try with 2 ($n=2$) and more. Find the relationship between n and m .



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- Take a square sheet of paper of side 10 cm. Four small squares are to be cut from the corners of the square sheet and then the paper folded at the cuts to form an open box. What should be the size of the squares cut so that the volume of the open box is maximum?
- Take an open box, four sets of marbles (ensuring that marbles in each set are of the same size) and some water. By placing the marbles and water in the box, attempt to answer the question: do larger marbles or smaller marbles occupy more volume in a given space?
- An eccentric artist says that the best paintings have the same area as their perimeter (numerically). Let us not argue whether such sizes increase the viewer's appreciation, but only try and find what sides (in integers only) a rectangle must have if its area and perimeter are to be equal (Note: there are only two such rectangles).
- Find by construction the centre of a circle, using only a 60-30 set square and a pencil.
- Various types of "cryptarithm".

Note:

- **Select any two Assignment from above topics.**
- **Front Cover Page is of drawing file A4 size with School Name, Monogram, Mathematics Project, Your Name, Class, etc is on front page in White.**



- **Headings**
Acknowledgement, Index, Assignment one, Assignment two, Bibliography, Remarks, etc
- **Total Number of pages not more than 21 pages.**
- **Use single line white interleaf A4 size pages.**
- **Sample of the Front Coverage is given below.**



Last date of Submission: 30.07.2024