PROJECT WORK FOR CLASS 10 A B &C

YEAR- 2022-23

ENGLISH LITERATURE (PAPER 2)

Prescribed project from CISCE:

1) Character/thematic analysis.
2) Socio-economic, cultural, historical relevance/ background.
3) Summary/ paraphrase.
4) Appreciation of literary qualities.
5) Identifying with a character. Putting oneself in the place of the character in a given circumstances and explaining one's actions.
6) Imagine alternative outcomes or endings in a literary piece and the effect on all concerned.

GENERAL INSTRUCTIONS:

1) Attempt all 3 topics.
2) All projects must be handwritten.
3) All project work must be submitted in file page with proper spiral binding.
4) The cover page should show the school's name, Logo, Student's Name, Class, Section and Subject. The cover page should be typed.
5) The second page should be about acknowledgement
6) The third page should be about the content headings with their page numbers.
7) Each topic should be written on a new page and arranged as Topic 1, 2and 3.
8) Use pictures and captions wherever possible.
9) Marks will be deducted for spelling and grammatical errors.
10) Word limit is 1500.
11) Last page should be about bibliography (references/citation).

ACKNOWLEDGEMENT

 I would like to express my special thanks of gratitude to my teacher (Name of the teacher) who gave me the golden opportunity to do this wonderful project on the topic (Write the topic name). I offer my sincere appreciation for the learning opportunities provided by my principal (Name of the principal) which also helped me in doing a lot of research and I came to know about so many new things. I am really thankful to them. I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame

TOPIC 1THE MERCHANT OF VENICE

The conflict between Shylock, the Jewish Moneylender and Antonio, the Christian Merchant is both religious and economic.

Dwell on their enmity and explore the ways in which Shakespeare portrays the two characters to show their differences and similarities.

TASK1- TEN THINGS I HATE ABOUT YOU-

Write in modern English ten reasons why Shylock hates Antonio. Justify it with the corresponding quote from the text.

TASK 2-

Which character do you relate with the most in the play, 'The Merchant of Venice'? Write the good and bad qualities of that character. Also write about a similar person you have come across in real life. Which quality or qualities of this character/person would you like to adopt?

TASK 3-

Show the interdependence of the bond story and the casket story in 'The merchant of Venice."

Arrangement of The Merchant of Venice project:

1) William Shakespeare- Life and work
2) The Merchant of Venice [Picture of cover page of book]
3) Task 1
4) Task 2
5) Task 3

TOPIC 2 POETRY
Discuss how the poem, 'I Know how the Caged Bird Sings' brings out the theme of racism. Comment on the life of Maya Angelou and the autobiographical element in the poem.

TOPIC 3 SHORT STORY
With reference to The Little Match Girl, write the following:
1) The summary and analysis of the story.
2) The character of the Little Girl.

ENGLISH LANGUAGE -Project is based on Aural Skill and Oral Skill
  HISTORY

Make a detailed project on any one of the following topics-

1- Indian Parliament-Houses, their terms, Qualifications, Parliamentary procedure, Exclusive and equal powers of both the houses, The first general election and a chronological list of the Speakers.

2- Make a detailed project on The President-Qualifications for the post, tenure, procedure for Impeachment, powers, a chronological list of the Indian Presidents with their tenure and picture, and major important events, achievements of any 5 of them

3-Union Executive- It should include the appointment of the P.M., Council of ministers, Powers of the Prime Minister and , his position as the leader of the nation, Powers and functions of the union Cabinet, A chronological list of the Indian Prim Ministers with their pictures and tenure, A list of the Cabinet ministers of any 5 Prime Ministers.

4- A brief Life Sketch of Gandhiji, his activities in South Africa, The Gandhian Tenets, , his participation in 3 major Local Movements and a brief account of any of his Three major National Movements.

5- Make a detailed project on Netaji Subhash Chandra Bose -His ideology , Difference with Gandhiji, Formation of Forward Bloc and INA, Netaji's contribution in the success of INA and significance of the struggle of INA and Netaji

6- Make a project on Adolf Hitler covering his life history, formation of Nazi Party and Government, his domestic and foreign policy, his participation and role in Second World War , any five interesting facts related to his life.

7-Make a detailed project on India's Independence and Partition which should include Cabinet Mission, Mountbatten Plan, Acceptance of the Congress for Partition , Features of Indian Independence Act and Constitution making body.

8-Prepare a detailed report on the formation aims, functions , contributions of UNICEF or UNESCO .

9-Present a book review of Dada Bhai Naoroji's book- Poverty and UnBritish rule in India.

10- Discuss the relevance of any of these films- 1. Jojo Rabbit 2. The Boy in striped pyjamas 3. Life is Beautiful 4. Bose- The Forgotten Hero

Note- Your project should include Preface, Acknowledgement, Content list and Bibliography.

PHYSICS-

A. Format of the project should be as follows:

Projects should **hand written**. CLEAR Diagrams if any can be colored. Use practical sheets placed in a cardboard (not plastic) file cover . Your cover page should have the following:

Name of the student
Class and Section

Session 2022 -23
Topic of the Project

B.Your typed/**HAND WRITTEN** project should contain the following information.

Acknowledgement
Preface
Index
Detailed description of the project topic
Conclusion
Bibliography

C.Choose the project as follows:
        a. **SET 1 is COMPULSORY**
        b. Choose <u>**any one**</u> section out of Set 2 or Set 3

SET 1 [COMPULSORY SECTION]
GLASS SLAB :

    a) Trace the course of different rays of light refracting through a rectangular glass slab at different angles of incidence= 0, any other angle i .
    b) Mark the angles of incidence, refraction and emergence.
    c) Mark and define lateral displacement in each case.

PRISM:

    a) For a triangular prism, trace the course of rays passing through it, measure angles i_1, i_2, A and δ.
    b) Calculate $i_1 + i_2 = A + \delta$ and $A = r_1 + r_2$.
    c) For a ray of light incident normally (i_1=0) on one face of a prism, trace course of the ray. Measure the angle δ.

CONCAVE AND CONVEX LENS

    a) Draw a ray diagram and write the characteristics of image for a convex lens when an object is placed at :
        a. Infinity
        b. Beyond 2F
        c. At 2F
        d. Between F and 2F
        e. At F
        f. Between O and F
    b) Draw a ray diagram and write the characteristics of image for a concave lens when an object is placed at :
        a. Infinity
        b. Anywhere on the principal axis

CHOOSE ANY ONE OF SET 2 OR SET 3

SET 2

ELECTRICITY

a) Using as simple electric circuit, verify Ohm's law. Draw a graph, and obtain the slope.

b) Set up model of household wiring including ring main circuit.

c) Study the function of switches, staircase lighting switches and fuses.

d) Block diagram showing supply of power from Generating station to our houses/factories.

e) Calculate the electrical energy consumption of your house for a month in summer and a month in winter.

f) Draw a labeled diagram of
   a. An Electric bell
   b. A d.c. motor
   c. An ac generator
   d. Step up transformer
   e. Step down transformer

SET 3

Lever

a) Determine the mass of a meter rule using a spring balance or by balancing it on a knife edge at some point away from the middle and a weight W on the other side.

b) Describe the three different classes of levers by drawing a suitable diagram.

c) Calculate MA=L/E = effort arm/load arm.

d) Find which is suitable to be either a 'Force Multiplier' Or 'Speed Multiplier'.

[There are many possibilities with a meter rule as a lever with a load (known or unknown) suspended from a point near one end (say left), the lever itself pivoted on a knife edge, use slotted weights suspended from the other (right) side for effort.

Pulley / Block and Tackle Arrangement

a) Draw diagram to show the following pulley systems showing proper directions of tension, load and effort .
    a. Single Fixed Pulley
    b. Single movable pulley
    c. Combination of Single Fixed pulley with single movable pulley
    d. Block and Tackle Arrangement of pulleys with MA=3,4,5
b) Determine the VR and MA of each pulley system.

CHEMISTRY

1. Compile the list of 20 spices /herbs/plant extracts used in our kitchen. Find its main composition and the ailment it is used to cure as per our ancient ayurveda. Compile it in the following format :

S.NO.	SPICE / HERB /PLAN EXTRACT USED IN OUR HOUSE	CHEMICAL PRESENT	CURING WHICH TYPE OF AILMENT

2. Draw flow chart of oxygen cycle and explain how it affects human health and environment.

3. Role of chemistry in Earth's Climate . List all the compounds /gases responsible for climate change .

NOTE :

1. THE PROJECT MUST HANDWRITTEN in separate loose sheets neatly placed and tied in a cardboard file(no plastic file).
2. The file should contain the following:
    a. Name ,class and section of the student on the cover.
    b. Inside the file you must write
        i. Acknowledgement

        ii. Preface
       iii. Project matter
       iv. Bibliography

3. THIS PROJECT HAS TO BE SUBMIITED AS HARD COPY WHEN THE SCHOOL REOPENS.

BIOLOGY

Prepare a project on any topic of your choice from biology or environmental science.

Suggested topics for the Project-

a. Any topic from plant physiology
b. Any topic from animal physiology
c. Diseases (bacterial, protozoan, fungal. Viral)
d. Drug addiction
e. Alcoholism
f. Biodiversity
g. Ecosystem (land, forest aquatic soil)
h. Environmental pollution
i. Corona virus
j. Diabetes
k. Diseases related to circulatory system
l. Diseases related to respiratory system
m. Diseases related to nervous system, endocrine system
n. Plant diseases
o. Crop improvement strategies
p. Reproduction in organisms
q. Or any other topic of your choice

GENERAL INSTRUCTIONS:

1. The project has to be handwritten.
2. The project has to be submitted in a hard board file.
3. First page should have the acknowledgement.
4. Second page should have the content.
3. From the third page detail description of the topic.
4. You can attach graph, newspaper cuttings, diagrams, pictures related to the topic in your project.
5. Page limit 25-30 pages
6. Last page should be of bibliography.
7. Your cover page should have the following-

a. Name of the student
b. Class & Section
c. session
d. Topic of the project

Format of Acknowledgement

I would like to express my special thanks and gratitude to our Principal Dr.Anita Pauline Dey and the subject Teacher Mrs. Sangeeta Pandey who gave us the opportunity and fruitful guidance to do this project on the topic _____.

Secondly I would also like to thank my parents who helped me a lot in finalising this project.

By doing this project I got enriched with many information which can help in future.

s

HINDI

सभी अनिवार्य हैं। एक एक को लगभग 500 शब्दों में करना है।

1 बड़े घर की बेटी कहानी का सारांश व संदेश लिखते हुए कहानीकार के जीवनवृत्त व उनकी रचनाओं पर प्रकाश डालिए।

2 परिश्रम सफलता की कसौटी है को आधार बनाकर कोई कहानी या घटना लिखिए।

3 किसी ऐतिहासिक यात्रा का वृत्तांत विस्तार से लिखिए

4 चलना हमारा काम है नामक कविता का भावार्थ, केन्द्रीयभाव व कवि का जीवन परिचय लिखिए।

MATHEMATICS

INSTRUCTIONS:

1. You have to complete **any two assignments** from the following list.

2. Both assignments to be done and recorded in a ***single spiral binding***

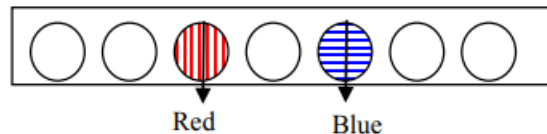   ***File,*** *each to be covered in atleast 8 to 10 pages.*

Suggested Assignments :

• Survey of various types of Bank accounts, rates of interest offered.

• 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. A B C

• 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.

• 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).

GEOGRAPHY

Candidates will be required to prepare a project report on any one topic. The topics for assignments may be selected from the list of suggested assignments given below. Candidates can also take up an assignment of their choice under any of the broad areas given below.

Suggested list of assignments:

1. Local Geography:

(a) Land use pattern in different regions of India– a comparative analysis.

(b) The survey of a local market on the types of shops and services offered.

2. Environment: Wildlife conservation efforts in India.

3. Current Geographical Issues: Development of tourism in India.

4. Transport in India: Development of Road, Rail, Water and Air routes.

5. List different type of industries in the States and collect information about the types of raw materials used, modes of their procurement and disposal of wastes generated. Classify these industries as polluting or environment friendly and suggest possible ways of reducing pollution caused by these units.

6. Need for industrialization in India, the latest trends and its impact on economy of India.

7. Visit a water treatment plant, sewage treatment plant or garbage dumping or vermicomposting sites in the locality and study their working.

COMPUTER APPLICATIONS-

Time to be Spent	1 hour per day for 5 days
Work Specification :	**Intermediate Assignment File to be completed**
Materials / Resources Required :	**Computer with BlueJ and JDK installed, Text Book, Soft copy of Assignment File, Any text editor(preferably MS WORD)**
Instructions / Guidelines :	• **Complete all 8 assignments from the assignment list shared.** • **The below headings will be integral part of assignment file**

Any Other Information:	**In case you get any error in a program which you are unable to resolve, please whatsapp the code to 9935488883 or have a telephonic conversation for problem solving.**

JAVA ASSIGNMENTS TO BE COMPLETED FOR ICSE 2022 PRACTICAL FILE

Number Problems/Menu Driven programs based on usage of loops/switch

ASSIGNMENT -1

Using the switch statement, write a menu driven program for the following: [15]
(i) To print the Floyd's triangle [Given below]
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

(ii) To display the following pattern based on value of n.
For example if n=5 then print,
5 4 3 2 1
4 3 2 1
3 2 1
2 1

ASSIGNMENT -2

Write a program in Java to accept a number and check whether it belongs to the Fibonacci
Series (sequence) or not.
Fibonacci Series:
The Fibonacci Sequence is the series of numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, …

The first two numbers in the series is '0' and '1' and every next number is found by adding up the two numbers before it.

The 2 is found by adding the two numbers before it (1+1)
Similarly, the 3 is found by adding the two numbers before it (1+2),

And the 5 is (2+3),
and so on!

Example: the next number in the sequence above would be 21+34 = 55

Here is a longer list:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181, 6765, 10946,
17711, 28657, 46368, 75025, 121393, 196418, 317811, …

ASSIGNMENT -3

The International Standard Book Number (ISBN) is a unique numeric book identifier, which is printed on every book. The ISBN is based upon a 10-digit code. The ISBN is legal if 1*digit1 +2*digit2 + 3*digit3 + 4*digit4 + 5*digit5 + 6*digit6 + 7*digit7 + 8*digit8 + 9*digit9 + 10*digit10 is divisible by 11.

Example: For an ISBN 1401601499
Sum=1*1 + 2*4 + 0*0 + 4*1 + 5*6 + 6*0 + 7*1 + 8*4 + 9*9 + 10*9 = 253 which is divisible by 11.

Write a program to:
(i) input the ISBN code as a 10-digit number

(ii) If the ISBN is not a 10-digit number, output the message "Illegal ISBN" and terminate the
program

(iii) If the number is 10-digit, extract the digits of the number and compute the sum as explained above.

If the sum is divisible by 11, output the message "Legal ISBN". If the sum is not divisible by 11, output the message "Illegal ISBN".

ASSIGNMENT -4

An Emirp number is a number which is prime backwards and forwards.
Example: 13 is an Emirp number since 13 and 31 are both prime numbers. Write a program to accept a number and check whether it is an Emirp number or not.

ASSIGNMENT -5

Write a menu driven program in Java to provide the following options to generate and print output based on user's choice:
(a) To input a number and check whether it is a NEON number or not
(b) To print the REPUNIT series: 1, 11, 111, 1111, …. upto 'n' terms
(c) To print the sum of factorial of first n terms, where n is input by the user.

For example if
n=5 then sum=1+2+6+24+120=153 which is the sum of 1!+2!+3!+4!+5!

A number is said to be NEON, if sum of all the digits of the square of the number is equal to the number itself. For example 9 is a NEON number.
(Workings: Square of 9 = 81. Sum of digits of square: 8 + 1 = 9)

For an incorrect menu choice an appropriate error message should be displayed.
SS
Programs based on if ..else /switch conditional construct

ASSIGNMENT -6

A Credit card company allows a limit to spend Rs. 15000 to its clients. It also offers cash back
facility according the table shown below. Input the amount spent by the user and display the cash back amount that he is entitled to.

Amount (in Rs.)	Cash Back (in Rs.)
First 1000	100
Next 2000	200 + 2% of amount exceeding 1000
Next 4000	400 + 4% of amount exceeding 3000
Next 8000	800 + 8% of amount exceeding 8000

Write a program to declare the class 'Credit' that takes in the name of the client and the

amount spend by him. Calculate the cash back amount and print it along with all the other
input details.

(Assume there are 20 clients. Take details and print the requisite output for each of them one by one.)

ASSIGNMENT -7

An electronic shop has announced the following seasonal discount on purchase of certain items.

Purchase Amount in Rs.	Discount on Laptop	Discount on Desktop PC
0-25000	0.0%	5.0%
25001-57000	5.0%	7.5%
57001-100000	7.5%	10.0%
More than 100000	10.0%	15.0%

Write a program based on the above criteria to input name, address, amount of purchase, and type of purchase (L or 1 for Laptop and D or 2 for Desktop) by a customer. Compute and print the net amount to be paid the customer along with name and address.

[Hint : discount= (discount rate /100) * amount of purchase
Net amount= amount of purchase – discount]

ASSIGNMENT -8

Mr. A. P. Singh is a software engineer. He pays annual income tax as per the given table:

Annual Salary	Rate at Income Tax
Up to Rs.1 ,00,000	No Tax
Rs.1 ,00,001 to Rs.1 ,50,000	10% of the amount exceeding Rs.1 ,00,000
Rs.1,50,001 to Rs.2,50,000	Rs.5000 + 20% of the amount exceeding Rs.1,50,000
Above Rs.2,50,000	Rs.25,000 + 30% of the amount exceeding Rs.2,50,000

Write a program in Java to compute the income tax to be paid by him.

HINDUSTANI CLASSICAL MUSIC (ONLY FOR 10 C)

1.Life and contribution in brief of Amir Khusro and Pt. Vishnu Digambar Paluskar.

2. A brief description of 4 eminent vocalists (present or recent past)

3. Names of different parts (components) of the Tanpura with the help of a simple sketch. Tuning and handling of the instrument.

COMMERCIAL APPLICATION
FOR 10 A&B

Note: Parents are expected to ensure that the student should go through all the instructions given below before making the project.

Instructions:
1. There will be four separate assignments (Project) as per the topics given. They will be kept in one file later on(spiral binding).
2. Start with **Acknowledgement**, should be of one page, short and simple. Also write your name, class , section and roll no. below it. Don't make separate acknowledgement for each topic. There should be only one common acknowledgement.
3. Order of each topic:
• Name of the topic (one page)
• **Index** (only serial no. , content and page no. , should be of one page)
• Subject Matter of the topic (describe the topic with Introduction , relevant headings and sub headings, supported with pictures/diagrams/ graphs/ tables, as per the requirement. Should not be more than 4 to 5 pages.)
• **Conclusion** (one page)
• **Bibliography** (One page. Write the name of relevant websites and books consulted for the making of the assignment.)
• Note: Same order will be followed for each topic.
4. Each assignment should not be more than 8 to 10 pages including all the points mentioned above. Don't use vulgar or objectionable pictures.
5. Relevant pictures should be pasted neatly and must be bordered in black along with labelling or heading. Use only black and blue pens for writing.
6. Sample assignments are given at the end of the course book. These can be read to understand the topic but don't copy the matter from there.
7. Course book, other reference books and relevant websites can be used to find the subject matter of the assignment.

Course Book – Commercial Applications Part II by Dr. C.B. Gupta.

Topics for the Assignments (Project) :

1. Design a marketing plan for the launch of a new mobile handset in the price range of Rs. 15000-25000 giving details about the quality, pricing strategy, features, promotional techniques etc.

2. Make a report on the new forms of markets and marketing such as internet marketing (marketing through internet), home shopping (catalogues like Burlingtons , etc.), direct marketing (example Eureka-Forbes). What is their relevance in future and why ?

3. **Study the product life cycle (PLC) of a new soap in the price range of Rs 50-100.**

4. Study the working of the commercial banks in India by studying the working of the branch office of any Public Sector Commercial Bank such as Canara Bank , SBI , Bank of Baroda etc.

COMMERCIAL STUDIES
ONLY FOR 10 C

Note: Parents are expected to ensure that the student should go through all the instructions given below before making the project.

Instructions:

1. There will be three separate assignments (Project) as per the topics given. They will be kept in one file later on (spiral binding).

2. Start with **Acknowledgement**, should be of one page, short and simple. Also write your name, class , section and roll no. below it. Don't make separate acknowledgement for each topic. There should be only one common acknowledgement.

3. Order of each topic:

• Name of the topic (one page)

• **Index** (only serial no. , content and page no. , should be of one page)

• Subject Matter of the topic (describe the topic with Introduction , relevant headings and sub headings, supported with pictures/diagrams/ graphs/ tables, as per the requirement. Should not be more than 4 to 5 pages.)

• **Conclusion** (one page)

• **Bibliography** (One page. Write the name of relevant websites and books consulted for the making of the assignment.)

• Note: Same order will be followed for each topic.

4. Each assignment should not be more than 8 to 10 pages including all the points mentioned above. Don't use vulgar or objectionable pictures.

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7. Course book, other reference books and relevant websites can be used to find the subject matter of the assignment.

Course Book – Commercial Studies Part II by Dr. C.B. Gupta.

TOPIC 1: Financial accounts:
Study the annual report (balance sheet and profit and loss account) of any one company and comment on its financial health. Complete your project with the help of the data, pie charts, bar graphs and various strategies adopted by the firm to increase its profit margin.

TOPIC 2: Advertising

Study two different advertisements in any one media (print, television, audio) of the FMCG (fast moving consumer goods) on Electronic gadgets explain their positive and negative points.

TOPIC 3:Banking
Study different types of bank accounts (fixed deposits, recurring account, current account etc), any 5 types and find out what are the relevant documents required for opening such types of accounts, who all can open it and what is the difference in their rates of interests.

TOPIC 4: Budgeting
 Ask your parents how they prepare the monthly budget of your family, or else you prepare a budget for your family. Separately mention how much share of the budget is spent on your needs and for what purpose. Also separately show what are your expenses which can be curtailed down so as to reduce your share in the budget.

FINE ARTS-
Instructions:

 Art paper 1 and Art paper 2:
Illustrate in detail, with colour concept, the composition given below in your Art Copy.
Time to be taken for the same is 2 hrs.