



Project: Session-2019-20

Class- XI Science

Project- I English Language

(Internal Assessment)

Listening & speaking Skills

- Objectives (i)** To inculcate attentive listening among the students and to comprehend & respond properly to the given message.
- (2) To instill confidence among the speakers through public speaking
 - (3) To inculcate speech modulation and fluency while delivering the content.

(a) Listening Skills Assessment (10 Marks)

A Passage of about 350 words will be read aloud, twice, the first time at normal speed & the next time at a slower speed.

Students may make brief notes during the readings. They then answer objective type questions based on the passages on the paper provided to them.

* Marks will be allotted on the number of correct answers.

(b) Speaking skills Assessment (10 Marks)

Students are to be assessed through individual presentation of about three minutes followed by a discussion with the subject teacher.

Some of the themes to be addressed in the assessment are narrating an experience, giving directions or instructions on how to make or operate something, providing a description, giving a report or expressing an opinion providing.

Judgment Criteria

Content	Linguistic ability (fluency & Pronunciation)	Grammar & Vocabulary	Confidence & Presentation
3	3	2	2

Candidates will be assessed jointly for listening & speaking skills.

Physics

Project : 1

Objective:- Students would be told to prepare Project files on the topics allotted to them, which are from their syllabus.

Topics :-

- 1)Physical world
- 2)Units and Measurements
- 3)Motion in a plane
- 4)New tons laws of motion
- 5)Friction

Methodology: - Students would be told to give a write up and paste pictures on the topic allotted. The write up should not be less than 15 pgs.

Learning Outcome : Students would be able to learn :

- 1) In detail about the topics allotted to them and relate them to everyday experience and phenomenon.
- 2) How to search for the topics in various books, internet, Journals etc.
- 3) The experience of sorting out the best concised matter from vast knowledge available about the topics.

Marking scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10

Project : 2

Objective:- Students would be told to prepare Project files on the topics allotted to them, which are from their syllabus.

Topics :-

- 1)Uniform circular Motion
- 2)Centre Of Mass
- 3)Rotational Motion
- 4)Gravitation
- 5)Fluid Pressure

Methodology: - Students would be told to give a write up and paste pictures on the topic allotted

Learning Outcome : Students would be able to learn :

- 1) In detail about the topics allotted to them and relate them to everyday experience and phenomenon.
- 2) How to search for the topics in various books, internet, Journals etc.
- 3) The experience of sorting out the best concised matter matter from vast knowledge available about the topics.

Marking scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10

Biotechnology :-

Project 1

Title : ‘Innovations and future scope of Biotechnology’

Procedure :- A power point presentation must be prepared on the given topic (10 slides) Students must present the topic confidently in class as a lecture

Marking Scheme

Confidence	Information	Presentation	Inference	Punctuality	Total
2	2	2	2	2	10

Project : 2

Topic : ‘India as a Biodiversity Hotspot’

Procedure: Students must research on biodiversity and evolution of populations in the Indian scenario. A detailed project must be made about biodiversity in both plants & animals Indian plant and animals species must be documented using relevant pictures

Marking Scheme

Introduction	Presentation	Information	Conclusion	Punctuality	Total
2	2	2	2	2	10

Biology

Project 1:-

Title :- ‘Preparation of plant Herbarium’

Procedure :- Students need to collect plant specimens of any 5 families & preserve their floral parts in pressed condition inside thick books.

The preserved specimens need to be displayed on A³ sized sheets along with classification of displayed specimen

Marking Scheme:-

Sample Collection	Presentation	Classification	Observation	Punctuality	Total
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2	2	2	2	2	10
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Biology :-2**Topic :- ‘Biomolecules’**

Procedure : Students need to prepare a project file with detailed description about biomolecules, their discovery, location, structures, types and examples. Relevant figures/ Photographs for each subtopic need to be stuck : Project must be handwritten (15 Pages)

Marking Scheme

Introduction	Presentation	Information	Conclusion	Punctuality	Total
2	2	2	2	2	10

Chemistry:-

The candidates are to creatively execute one Project on selected topic allotted to them.

Topics:

1. To study the caffeine contents in different brands of tea and coffee.
2. Food adulteration
3. To determine the amount of casein present in different samples of milk
4. Chromatography their types and uses.
5. To study the presence of Insecticides and pesticides in various fruits and vegetables.
6. Fermentation and its Industrial use
7. Bioavailability enhancement techniques of Herbal Medicine A case example of Turmeric.
8. Bioavailability enhancement techniques of Herbal Medicine Example of Neem
9. Nucleic Acid ; DNA and RNA- Their structure, unique nature, Importance in evolution and their characteristic features
10. Chemicals and chemical processes in forensic studies
11. Preparation of soap and its cleansing action.

Marking Scheme

Introduction	Contents	Analysis/Material aid/Structure/Charts/histogram/diagrams Graph, data	Presentation Bibliography	Total
2.5	2.5	2.5	2.5	10

Home Science –Project-1**Topic: Food and Nutrition**

Objectives:- To make the students understand and learn the relationship between food and health, between balanced diet and healthy body.

- * Functions of food
- * Concept of balanced diet
- * Functions and sources of nutrients

* BMR and factors affecting BMR

Methodology:- Students will be required to prepare a brief paper presentation on the following:-

- Importance of Balanced diet for Every day life.
- Physiological, Psychological and social functions of food.
- Food and Nutritional requirements for family (ICMR Tables)
- Functions and sources of nutrients and vitamins .
- Role of water and fiber in diet
- Recommended dietary allowance for all the nutrients

Learning Outcomes

After completion the student should have elementary understanding of macro and micro nutrients.

Problems relating to under-nutrition and over-nutrition

- ✓ Problems relating to under nutrition and over nutrition.
- ✓ Basal Metabolic Rate
- ✓ Understanding the terms like mortality Morbidity and longevity and their relationship to food.
- ✓ Classification of food on the basis of nutrients and functions.
- ✓ Assessment of nutritional status and calorie intake on the basis of poverty line.

Source – Access to Library

Text books

Internet

Journals/Magazines

Newspapers

Marking Scheme:-

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Project-2

Topic :- Extension Education and communication

Objectives:- To make the students learn the methods of Communication

- * Role of Audio-Visual Aids in Communication and Extension
 - * Concept of formal and non formal education
 - * Characteristics of Extension Education
 - * Barriers to Communication
- Students will be required to present a brief presentation on the following:-

Methodology:-

- Concept of Extension Education
- Different functions and barriers to communication
- Classification of audio and Visual aids
- Advantages of different types of audio and visual aids.

Learning outcomes

After completion of project the students should have a clear understanding of the concept of Communication and Extension

- ✓ Different methods of Communication
- ✓ Role of audio, Visual aids in Communication and Extension
- ✓ Different kinds of Audio & Visual aids, Criteria for selection of Audio Visual aids.
- ✓ Classification of Extension teaching methods.

Source – Access to Library

Text books

Internet

Journals

Marking Scheme

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Physical Education

VOLLEYBALL ASSIGNMENT

DEFINE FOLLOWING BY GRAPH& PICTURE

1. History of volleyball (50 word)
2. Basic general rules of volleyball
 - i. Playing area

- ii. Rotation
 - iii. Scoring
 - iv. Team
 - v. Substitution & its rules
 - vi. The ball
 - vii. Time out ,
 - viii. Libro
 - ix. Positional-fault
 - x. Technical timeout
3. Measurement of playfield and specification of sports equipment's with net & antenna
4. Fundamental skill of volleyball
- (a) Service
 - Underhand service , Jump service , Tennis service, Round arm service , Floated service , Spin service
 - b) Blocking
 - One men block , Two men block , Three men block
 - c) Spiking and smashing
 - Single spike , Complex spike
 - d) Passing
 - Underhand pass , Overhand pass

SOLVE ALL QUESTIONS

Q1. What are duties of referee, assistance referee and line man?

Q2. List & explain any ten faults which a player is likely to commit during a game of volleyball

Support required

Text book, Access to library, Internet

CRICKET ASSIGNMENT

DEFINE FOLLOWING BY GRAPH & PICTURE

1. Cricket history (50 word)
-

2. Latest general rules of cricket
 - (f) players (b) substitutes (c) boundaries (d) follow on (e) over (f) batsman getting out
3. Rules Related to twenty-20 match
4. Measurement of playfield and specification of sports equipment's
5. Fundamental skills of cricket
 - A. Batting skill
 - i. Grip ii.) Stance iii) Forward defence stroke
 - iv. Backward defence stroke Cover drive v) On drive Straight drive vi) Pull vii) Hook viii) Sweep shot
 - B. Bowling skill
 1. Fast bowling- in swing, out swing, off cutter, leg cutter
 2. Spin bowling- off break, leg break, top spin, googly
 - C. Fielding skill
 1. Stopping and throwing
 2. Catching- high catches, low catches
 6. Terminologies related to cricket
 - i) Dolly catch ii) Maiden over iii) Hitwicket
 - iv) Maiden over v) Gully vi) Setter
 - vii) Duck viii) Golden duck ix)Bouncer
 - x) Free hit
 - j) xi) Stricker and non stricker
 - xii) Hat-trick xiii) Seam xiv) No ball

SOLVE ALL QUESTIONS

1. Specific Exercises of Warm-up and Conditioning in cricket game.
2. Explain the duties of an umpire and referee before start & during a cricket match.
3. Draw a neat cricket ground and indicate all correct point of fielding.

Support required

Text book, Access to library, Internet

Marks will be allotted for discipline also

Physics

Project : 1

Objective:- Students would be told to prepare Project files on the topics allotted to them, which are from their syllabus.

Topics :-

- 6) Physical world
- 7) Units and Measurements
- 8) Motion in a plane
- 9) Newton's laws of motion
- 10) Friction

Methodology: - Students would be told to give a write up and paste pictures on the topic allotted. The write up should not be less than 15 pgs.

Learning Outcome : Students would be able to learn :

- 4) In detail about the topics allotted to them and relate them to everyday experience and phenomenon.
- 5) How to search for the topics in various books, internet, Journals etc.
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Content	Preparation	Presentation	Result	Total
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10) Fluid Pressure

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Confidence	Information	Presentation	Inference	Punctuality	Total
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Project : 2

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Procedure: Students must research on biodiversity and evolution of populations in the Indian scenario. A detailed project must be made about biodiversity in both plants & animals Indian plant and animals species must be documented using relevant pictures

Marking Scheme

Introduction	Presentation	Information	Conclusion	Punctuality	Total
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Topics:

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13. Food adulteration
14. To determine the amount of casein present in different samples of milk
15. Chromatography their types and uses.
16. To study the presence of Insecticides and pesticides in various fruits and vegetables.
17. Fermentation and its Industrial use
18. Bioavailability enhancement techniques of Herbal Medicine A case example of Turmeric.
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20. Nucleic Acid ; DNA and RNA- Their structure, unique nature, Importance in evolution and their characteristic features
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Project: Session-2019-20
Class- XI Com.

Project- I English Language
(Internal Assessment)
Listening & speaking Skills

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Commerce :-

Project:-1I

Group Work - Visit a nearby industry and gather information on the following points-

- **Brief background of the industry.**
- **Initial financial investment involved**
- **Sources of raw material.**
- **Main items produced.**
- **Growth over the years.**
- **Policies in relation to finance, human resource, expansion plans.**
- **Role of entrepreneur in the development of the industry.**

Prepare a write up on the performance of the company analysing it on the above criteria.

1. Learning Objectives

- To develop an understanding of the four factors of production namely, land, labour, capital and entrepreneur.
- To enhance the students' understanding of the industry.
- To help students understand the importance and role of the entrepreneur.
- To enhance thinking and analytical skills.
- To develop skills in extracting relevant information from correct sources.
- To improve writing skills.

2. Learning Outcomes

On completing the assignment, the students should be able to:

- understand the role and importance of the factors of production.
- appreciate the role of the entrepreneur in the development of the industry.
- analyse the decisions taken by the industry over the years.
- organize the information collected in a satisfactory manner.
- relate the subject with real life.

3. Methodology

- Discuss the purpose of the project with students.
 - Encourage students to form groups, to ensure an active individual participation and subsequent contribution in the overall process.
 - Ask students to list references and sources used.
 - Suggest names of firms that will be of assistance to students for the project.
 - Encourage students to discuss their queries.
-

4.

Evaluation Criteria	Distribution of Marks
Process	
Manner of conducting the research	4
Product	
Content	8
Individual performance (based on questions asked in class, level of involvement in the assignment)	4
Organisation of material	2
Presentation	2
Total	20

5. Support Required

- Addresses and prior appointments with companies for students to visit
- Letters from the school authorities for students to gain entry
- Xerox facility



Project-2

Study and analyse the advertising campaigns of five different product brands in any one media (print, television, audio, and internet) of the FMCG (fast moving consumer goods) for reference only: Samsung mobiles, HP Laptop computers, Sony TVs, Coca Cola soft drinks, Cadbury chocolates etc. and make a critical evaluation. Write the themes of the advertisements taken.

1. Learning Objectives

- To develop an understanding of advertising concepts.
- To help students critically analyse existing advertisements and advertising strategies.
- To develop the ability to analyse and differentiate between different advertisements pertaining to the same media.
- To develop the ability to critically analyse a particular advertisement.
- To develop the ability to write in clear and grammatically correct English.
- To develop skills in understanding the theme of an advertisement.

2. Learning Outcomes

On completion of this assignment students should be able to:

- understand the need for advertising.
- understand how advertising varies according to the type of media used.
- identify some of the problems associated with effective advertising strategies of firms.
- understand some of the weaknesses of existing advertising tools used by firms.
- understand the theme of each advertisement analysed.
- realise that advertisements of FMCGs also vary in the same media.

3. Methodology

- Discuss the assignment with students.
 - Provide a list of medias with their usage.
 - Students may select different advertisements for their projects.
 - Ensure all forms of media are covered.
 - Explain that the evaluation is based on multiple criteria.
 - Guide students regarding sources of reference materials.
-

Evaluation

Evaluation Criteria	Distribution of Marks
Process	
Manner of conducting the research	4
Product	
Content	6
Organisation of matter	4
Presentation	4
Theme	2
Total	20

4. Support Required

- Access to books
- Xerox facility
- Internet



Accounts

Project 1

Preparation of journal/ Sub division of journal, Ledger, Trial Balance & Financial statements of a trading organization on the basis of a case study.

Mythology:

Develop a case study of a sole trader starting business with a certain amount of capital.

Write in detail his transaction during the year- his purchase cash & credit, sales-cash & credit expenses, purchase of fixed assets & depreciation charged on them, any outstanding expenses, prepaid expenses, accrued expenses, drawing & accept bills of exchange.

From this case study developed (Which should have at least 15 transactions) pass the journal entries, post them into the ledger, Prepare trial Balance & the trading and profit & Loss A/C & Balance sheet.

The various expenses for comparison purposes could be depicted in the form of bar diagram & pie chart.

Learning Objectives :

- 1) Student will understand the basic accounting terms
- 2) They will be able to understand the meaning of transaction- how they are recorded in journal book
- 3) Classification & summarising in ledger & Financial statements

Learning outcomes

- 1) Students will be able to understand & draw independently the various books of accounts
- 2) They will be able to draw inferences from the financial statements
- 3) They will be confident & analytical in their approach

Marking scheme

Overall format	Content	Findings	Viva voce	Total
2	8	4	6	20

Project -2

Topic : Meaning & Objectives of Accounting

Outline & Methodology : Make a detailed project on accounting covering the following topics

- Evolution of Accounting
- Need for Accounting
- Meaning of Accounting
- Features of Accounting
- Objectives of Accounting
- Functions of Accounting
- Distinction between book keeping , Accounting & accountancy
- Types or branches of Accounting
- Advantages & limitations of Accounting.

Learning Objectives :-

After or during the course of making the project, students should be able to understand :-

- (1) Evolution of Accounting
- (2) To reason out the effect of every transaction of a business firm
- (3) To record transactions in T-account by following the double entry principle.
- (4) To interpret transactions recorded in accounts.
- (5) To indicate the type of accounts found in each ledger.

Learning Outcome

- 1) Students can explain the purpose of accounting
 - 2) Can explain the importance & the need of preparing accounting information for the primary users of accounting
 - 3) Can identify the various categories of workers that are involved with accounting & finance
 - 4) Can relate accounting knowledge to assist in their personal financial life.
 - 5) Can explain the use of the books of prime entry in accounting system
-

Marking Scheme –

Overall format	Content	Findings	Viva voce	Total
2	8	4	6	20

Economics**Project- 1**

Prepare a project report on ‘Human Capital Formation in India’ including following points.

- Meaning
- Role of human capital in economic development
- Components of human capital formation
 - Health- Profile
 - Shortcomings
 - Education →Profile
 - Shortcomings
 - Education policy

Learning Objectives:-

- * To develop an understanding about why is human termed as human capital now a days.
- * To create an awareness about the components that are used to convert human into Human Capital.
- * To understand the role of human capital in an economy.

Methodology:-

- * Discuss the importance of human capital as the class
- * Encourage students to share their view related to short comings of health and education sectors.
- * Explain the method of collecting information and present it.

Learning Outcomes:-

On the completion of assignment students should be able to :

- * Know about meaning and role of human capital
 - * Learn about the important components to convert human into human capital
 - * Find out the role of health & education
 - * Find out shortcomings of health & education sectors
-

Marking Scheme:-				
Overall Format	Content	Finding	Viva Voice based on the Project	Total
2	8	4	6	20

Project -2

Prepare a Project report on Statistics-Collection, organization and presentation of data Find out the following.

1. Meaning & definition of statistics
2. Meaning of statistical inquiry & process
3. Sources of data
4. Types of data
5. Methods of collection of data
6. .Techniques of data collection
7. Organisation of data
8. Classification and presentation of data

Learning Objectives:-

- * To develop an understanding about use of statistics in economics
- * To know about meaning of statistics and procedure to collect data
- * To highlight the different types of data, sources of data collection, techniques of data collection.
- * To develop the ability to organize, classify and presenting data in prescribed manner.

Methodology:-

- * Discuss the need and purpose to make project
- * Ask students to neatly present the tabular format and different ways to present data.
- * Encourage all students to participate in classroom discussions
- * Explain the method of collecting information and presenting it.

Learning Outcomes:-

On completion of the project students should be able to :

- * Know about statistical inquiry
 - * Know about various method of data collection & their sources of collection
 - * Present the data in various ways i.e. tabular, diagrammatic & graphical
-

Marking Scheme

Content	Finding	Overall Format	Viva Voice based on the Project	Total
8	4	2	6	20

Home Science –Project-1

Topic: Food and Nutrition

Objectives:- To make the students understand and learn the relationship between food and health, between balanced diet and healthy body.

- * Functions of food
- * Concept of balanced diet
- * Functions and sources of nutrients
- * BMR and factors affecting BMR

Methodology:- Students will be required to prepare a brief paper presentation on the following:-

- Importance of Balanced diet for Every day life.
- Physiological, Psychological and social functions of food.
- Food and Nutritional requirements for family (ICMR Tables)
- Functions and sources of nutrients and vitamins .
- Role of water and fiber in diet
- Recommended dietary allowance for all the nutrients

Learning Outcomes

After completion the student should have elementary understanding of macro and micro nutrients.

Problems relating to under-nutrition and over-nutrition

- ✓ Problems relating to under nutrition and over nutrition.
- ✓ Basal Metabolic Rate
- ✓ Understanding the terms like mortality Morbidity and longevity and their relationship to food.
- ✓ Classification of food on the basis of nutrients and functions.
- ✓ Assessment of nutritional status and calorie intake on the basis of poverty line.

Source – Access to Library

Text books
Internet
Journals/Magazines
Newspapers

Marking Scheme:-

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Project-2

Topic :- Extension Education and communication

Objectives:- To make the students learn the methods of Communication

- * Role of Audio-Visual Aids in Communication and Extension
- * Concept of formal and non formal education
- * Characteristics of Extension Education
- * Barriers to Communication

Methodology:- Students will be required to present a brief presentation on the following:-

- Concept of Extension Education
- Different functions and barriers to communication
- Classification of audio and Visual aids
- Advantages of different types of audio and visual aids.

Learning outcomes

After completion of project the students should have a clear understanding of the concept of Communication and Extension

- ✓ Different methods of Communication
- ✓ Role of audio, Visual aids in Communication and Extension
- ✓ Different kinds of Audio & Visual aids, Criteria for selection of Audio Visual aids.
- ✓ Classification of Extension teaching methods.

Source – Access to Library

Text books
Internet
Journals

Marking Scheme

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Physical Education

VOLLEYBALL ASSIGNMENT

DEFINE FOLLOWING BY GRAPH& PICTURE

5. History of volleyball (50 word)
 6. Basic general rules of volleyball
 - i. Playing area
 - ii. Rotation
 - iii. Scoring
 - iv. Team
 - v. Substitution & its rules
 - vi. The ball
 - vii. Time out ,
 - viii. Libro
 - ix. Positional-fault
 - x. Technical timeout
 7. Measurement of playfield and specification of sports equipment's with net & antenna
 8. Fundamental skill of volleyball
 - (b) Service

Underhand service , Jump service , Tennis service, Round arm service , Floated service , Spin service
 - e) Blocking

One men block , Two men block , Three men block
 - f) Spiking and smashing

Single spike , Complex spike
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g) Passing

Underhand pass , Overhand pass

SOLVE ALL QUESTIONS

Q1. What are duties of referee, assistance referee and line man?

Q2. List & explain any ten faults which a player is likely to commit during a game of volleyball

Support required

Text book, Access to library, Internet

CRICKET ASSIGNMENT

DEFINE FOLLOWING BY GRAPH & PICTURE

7. Cricket history (50 word)
 8. Latest general rules of cricket
 - (g) players (b) substitutes (c) boundaries (d) follow on (e) over (f) batsman getting out
 9. Rules Related to twenty-20 match
 10. Measurement of playfield and specification of sports equipment's
 11. Fundamental skills of cricket
 - A. Batting skill
 - i. Grip ii.) Stance iii) Forward defence stroke
 - iv. Backward defence stroke Cover drive v) On drive Straight drive vi) Pull vii) Hook viii) Sweep shot
 - B. Bowling skill
 3. Fast bowling- in swing, out swing, off cutter, leg cutter
 4. Spin bowling- off break, leg break, top spin, googly
 - D. Fielding skill
 3. Stopping and throwing
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 12. Terminologies related to cricket
 - k) Dolly catch ii) Maiden over iii) Hitwicket
 - iv) Maiden over v) Gully vi) Setter
 - vii) Duck viii) Golden duck ix)Bouncer
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 - l) xi) Stricker and non stricker
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xiii) Hat-trick xiii) Seam xiv) No ball

SOLVE ALL QUESTIONS

4. Specific Exercises of Warm-up and Conditioning in cricket game.
5. Explain the duties of an umpire and referee before start & during a cricket match.
6. Draw a neat cricket ground and indicate all correct point of fielding.

Support required

Text book, Access to library, Internet

Marks will be allotted for discipline also



Project Work Session: 2019-2020

Subject: Science

Class- XII

Physics

Students have to prepare a working model and project report on the topics allotted to them. The topics are as follows :

Hydraulic crane, Automatic street light, Water level Indicator, Fire alarm, Traffic signal, Half wave rectifier, Full Wave Rectifier, Battery Eliminator, Logic Gates, Multi Levelled car parking, Emergency light and Security system of car parking.

Marking Scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10

Chemistry

The candidate is to creatively execute one project on a selected topic of chemistry allotted to the students.

Evaluation criteria for project work

Topics

1. Green chemistry
2. Biomolecules –
3. Polymers
4. Pharmacology
5. Alloy analyses
6. Percentage purity of iron wire
7. Study of content of ascorbic acid in citrus fruits
8. Investigation of Foaming capacity of different washing powder
9. Environmental chemistry.

Marking Scheme

Introduction/purpose	Contents	Analysis/material aid graph, data structure, histograms, diagrams	Bibliography	Total
2.5	2.5	2.5	2.5	10

Biology

Topic :- Genetic Disorders

Procedure :- Students must research on types of Genetic disorders & their causes. A list of various Genetic disorders must be evaluated & presented in a Project file using A 4 Sized sheets Projects should be handwritten by the candidate (15 Pages). Relevant pictures should be added.

Marking Scheme

Content	Presentation	Information	Conclusion /Summary	Punctuality	Total
2	2	2	2	2	10

Project 1: Home Science

Topic: Understanding labels

Objective:

To understand the concept of labelling

- To learn about the components of a good and informative label.
- To compare different labels in terms of mandatory requirements and information
- A good label could also have the following information :
- Register trade mark
- Picture of the product and major ingredients
- Consumer grievance number
- Direction of use
- Descriptions of raw ingredients
- Possible adverse effects.

Methodology:

Students will be required to prepare a brief paper presentation on the following:

- Gather three tables each from the following categories
- Food Products
- Cosmetics/Soaps/Detergents
- Medicines

Read the collected labels and record the observation.

Give suggestions on how the labels could be improved.

Learning Outcome : The students should be able to describe the visual appearance of the labels

- The Various information to be put on labels.
- To suggest the improvements on the labels
- The statutory/ Mandatory requirements of a good label.

Support Required -

- **Access to Internet**
- **Text Books**
- **Library**
- **News paper**

Marking Scheme

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Project 2: Home Science

Topic:

Management of Agriculture produce [Storage and Preservation]

Learning Objective:

- To Make the students learn about methods of food preservation, storage of foods and causes of spoilage of food.
- To compare and elaborate the simple household methods of food Preservation.
- Difference between perishable, semi perishable and non- perishable foods

Methodology:

Students will be required to prepare a brief paper presentation on

- Factors contributing to food spoilage
- Methods of storage of different types of food (perishable, non-perishable and semi-perishable foods)
- Physical and chemical methods used in homes to preserve foods.
- Methods used to preserve foods in different parts of the world (old & New)

Learning Outcome:

The students should be able to understand the importance & principles of food preservation

- The different methods of storing different types of food like perishable, Semi and non- perishable foods.
- The students should also know the chemical and physical methods of preserving food
- The different common methods used in our homes to preserve foods.

Sources :

Access to Library

Internet

Text books

Newspaper/Journals

Marking Scheme

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Project 1: Physical Education

VOLLEYBALL ASSIGNMENT

DEFINE FOLLOWING BY GRAPH& PICTURE

1. History of volleyball (50 word)
2. Basic general rules of volleyball
3. Measurement of playfield and specification of sports equipments with net & antenna
4. Fundamental skill of volleyball
 - (a) Blocking
 - (1) One men block (2) Two men block (3) Three men block
 - (b) Passing
 - (1) Underhand pass (2) Overhand pass
 - (c) Spiking and smashing
 - (1) Single spike (2) Complex spike
 - (d) Service
 - (1) Underhand service (2) Tennis service (3) Spin service
 - (2) Floated service (5) Round arm service
 - (2) Jump service
 - (3)

SOLVE ALL SHORT ANSWER TYPE QUESTIONS:-

Q1. Explain how games and sports are helpful in promoting national integration among the players.

Q2. List the various career options available in the field of physical education. Discuss any four of them in detail.

Q3. What is meant by bruises? Mention five measures that can be taken by an individual to prevent sports related accidents.

Q4. What are duties of referee, assistance referee and line mans in volleyball game?

Q5. List & explain any ten faults which a player is likely to commit during a game of volleyball.

Q6. Explain the following:

(i) Assisted hit (ii) Penetration fault

Expand the following:

(i) FIVB (ii) VFI (iii) AVF (iv) UVA (v) JVA

Q7. Briefly explain the following:

(i). Seeding and byes

(ii). Knock-out or elimination tournaments

(iii). League or Round Robin tournaments.

(iv). Combination tournament

(v). Challenge tournament

(vi). Draw a fixture of 17 team knock out tournament &

Consolation tournament type 1st and type 2nd

Support required

Text book, Access to library, Internet

CRICKET ASSIGNMENT

DEFINE FOLLOWING BY GRAPH & PICTURE

1. cricket history (50 word)

2. latest general rules of cricket

(a) players (b) substitutes (c) boundaries (d) batsman getting out

3. Rules Related to twenty-20 match

4. Measurement of playfield and specification of sports equipments

5. Fundamental skills and Terminologies of cricket

A. Batting skill

(1) Grip (2) Stance (3) Forward defence stroke

(4) Backward defence stroke Cover drive (5) On drive (6) Straight drive

(7) Pull (8) Hook (9) Sweep shot

B. Bowling skill

1. Fast bowling- in swing, out swing, off cutter, leg cutter

2. Spin bowling- off break, leg break, top spin, googly

E. Fielding skill

1. Stopping and throwing

2. Catching- high catches, low catches

6. Terminologies related to cricket

(1) Dolly catch (2) Maiden over (3) Hitwicket (4) Maiden over

(5) Gully (6) Setter (7) Duck (8) Golden a duck (9) Dead ball

(10) Bouncer (11) Free hit (12) Stricker and non stricker

(13) Seam (14) No ball

SOLVE ALL SHORT ANSWER TYPE QUESTIONS

Q1. Explain the term disability. State the general principles of prevention of disability.

Q2. Explain the effects of exercise and training on the human respiratory system.

Q3. What is meant by tampering of ball? Mention any two ways by which a ball it tampered.

Q4. Expand and explain the following:

(1) ICC (2) BCCI (3) WCAI

Q5. Specific Exercises of Warm-up and Conditioning in cricket game.

Q6. Explain the duties of an umpire and referee before start & during a cricket match.

Q7. Draw a neat cricket ground and indicate all correct point of fielding.

Support required

Text book, Access to library, Internet

Marks will be allotted for discipline also

Physics

Students have to prepare a working model and project report on the topics allotted to them. The topics are as follows :

Hydraulic crane, Automatic street light, Water level Indicator, Fire alarm, Traffic signal, Half wave rectifier, Full Wave Rectifier, Battery Eliminator, Logic Gates, Multi Levelled car parking, Emergency light and Security system of car parking.

Marking Scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10

Chemistry

The candidate is to creatively execute one project on a selected topic of chemistry allotted to the students.

Evaluation criteria for project work

Topics

10. Green chemistry
11. Biomolecules –
12. Polymers
13. Pharmacology
14. Alloy analyses
15. Percentage purity of iron wire
16. Study of content of ascorbic acid in citrus fruits
17. Investigation of Foaming capacity of different washing powder
18. Environmental chemistry.

Marking Scheme

Introduction /purpose	Contents	Analysis/material aid graph, data structure, histograms , diagrams	Bibliography	Total
2.5	2.5	2.5	2.5	10

Biology

Topic :- Genetic Disorders

Procedure :- Students must research on types of Genetic disorders & their causes. A list of various Genetic disorders must be evaluated & presented in a Project file using A 4 Sized sheets Projects should be handwritten by the candidate (15 Pages). Relevant pictures should be added.

Marking Scheme

Content	Presentation	Information	Conclusion /Summary	Punctuality	Total
2	2	2	2	2	10



Project Work Session: 2019-2020

Subject: Commerce

Class- XII

Project 1: Commerce

Assignment - Plan a visit to the Human Resources Department of a nearby business organisation and observe the selection and recruitment process in operation. Make enquiries on whether the organisation conducts training programs / workshops for its employees. If yes, interview the employees to find out the benefits obtained from such training programs / workshops.

1. Learning Objectives

- To develop a better understanding of the selection and recruitment procedure operating in an organisation.
- To develop an understanding of the importance of training in an organisation.
- To develop the ability to obtain information from various sources.
- To enhance presentation skills.

Suggestions:

Students can be asked to meet the School Principal/Headmaster and discuss the criteria adopted by him/her in recruiting the teaching and non-teaching staff.

2. Learning Outcomes

On completion of the assignment students should be able to:

- have an in-depth knowledge of the selection and recruitment procedure.
- appreciate the importance of training in an organisation.
- relate the theory aspect of the subject with its practical application.
- make a presentation in the class.

3. Methodology

- Discuss and explain the reasons for doing the assignment in class.
- Suggest that students can visit the offices of working parents for the project.
- Encourage students to ask questions in class.
- Enquire about the progress of the assignment at regular intervals.
- Ask students to provide a written list of names and sources used.
- Explain the criteria of the evaluation system.

4. Evaluation

Evaluation Criteria	Distribution of Marks
Process	
Manner of conducting the research	4
Product	
Content	10
Presentation	4
Organisation of material	2
Total	20

5. Support Required

- Names of organisations to be visited by students for completion of the project.
- Letter from school authorities for students to gain an easy access
- Xerox facility

Project 2: Commerce

“A nation’s foremost assets are neither its land nor water, nor in its forests and mines, nor in its flocks and herds, nor in currency but its investment in improving the welfare and wellbeing of its human resources”.

Prepare a project on the topic bringing out the importance of human resources in the development of an economy with a special mention of welfare policies undertaken in context with the Indian economy. The following points may be considered –

- **Education and training- policies and reforms**
- **Health and training- policies and reforms**
- **Family welfare and training- policies and reforms**
- **Water supply and sanitation and training- policies and reforms**
- **Housing and training- policies and reforms**
- **Environmental protection and training- policies and reforms**

1. Learning Objectives

- To help students understand labour as an important living factor of production.
-

- To develop an understanding of how labour helps in achieving Socio-Economic goals and also is an invaluable source of talent and skill.
- To widen understanding of welfare policies underway for human resource in India.
- To improve analytical skills.
- To develop the ability to plan, organize and present ideas coherently.

2. Learning Outcomes

On completion of the assignment students should be able to:

- appreciate the importance of human resource.
- identify the welfare policies for human resource development in context to the Indian economic system.
- gather information using various aids.
- organize information collected in a presentable form.

3. Methodology

- Discuss the topic in class.
- Encourage all students to participate.
- Explain the evaluation criteria.
- Encourage students to discuss the topic among themselves.
- Ask students to list the sources/references used.
- Enquire on the progress of the assignment on a regular basis.

4.

Evaluation Criteria	Distribution of Marks
Process	
Manner of conducting the research	4
Product	
Content	8
Reference material used	4
Organisation of material	2
Presentation	2
Total	20

5. Support Required

- Access to library/books
- Xerox facility



Project 1: Economics

Prepare a project report on ‘Cost and Revenue Analysis’ including following points :

- Basic concepts of cost of production : -
 - Behaviour of cost in the short run
 - Fixed cost
 - Total cost
 - Marginal cost
 - Variable cost
 - Average cost
 - Long run cost curves
 - Revenue concepts
 - Meaning
 - Behavior of Revenue under different market structures

- Relationship between TR, AR, and MR under perfect and imperfect perfect competition.

Learning Objectives:

- To give brief understanding of different types of cost.
- To enhance knowledge about various concepts & behaviour of cost.
- To make students learn to present behaviour and relationship among different types of costs diagrammatically

Methodology:

- Discuss the topic in the class.
- Explanation of all relevant diagrams in the class
- Encourage students to participate in class discussion and draw well labelled diagrams.
- Ask students to discuss their queries

Learning Outcomes:

On completion on the assignment students should be able to :

- Identify different types of cost incurred during the process of production.
- Find out the relationship between different types of costs
- Present concepts related to cost and revenue diagrammatically in different forms of markets

Marking Scheme

Content	Findings	Over all Format	Viva-Voce	Total
8	4	2	6	20

Project 2: Economics

Prepare a project report on “National Income” including following points:

- National Income and circular flow of Income
- Meaning
- Economic sector model of an economy
- Importance of circular flow of income.
- Income aggregates
- National Income Aggregates
- Disposable income Aggregates

→ Gross domestic product and Economic welfare

→ Methods of measuring National income

- Methods → Value –added method
→ Income Method
→ Expenditure Method
- Difficulties in estimation of national Income
- Precautions in estimation of national Income

Learning Objectives:

- Develop an understanding of the term National Income and its calculation.
- To create an awareness about national Income aggregates and methods of calculating national Income.
- Create learning of economic sectors models and their presentation

Methodology:

- Discuss the meaning, aggregates, Methods and importance of national income in an economy.
- Ask students to discuss their queries
- Explain the method of collecting information and presenting it.

Learning Outcomes:

On completion on assignment students should be able to:

- Know about the National Income and its related concepts.
- Present different sectorial model of economy
- Calculate national income with prescribed method
- Find out Various difficulties while calculating National Income

Marking Scheme

Content	Findings	Overall format	Viva-Voce	Total
8	4	2	6	20

Project 1: Accounts

Outline : Preparation of journal, subdivision of journal, Ledger, trial Balance & Financial statements of a partnership form of business on the basis of a case study :

Learning Objectives:

- Students will be able to develop a case study on partnership form of business
- They will be understanding the meaning & features of partnership
- They would be able to draw/ draft partnership Deed.
- They would be able to make financial statement ie trading, profits loss a/c, P&L appropriation A/c after recording transactions in journal & Ledger.

Learning Outcomes:

- After completion of the case study students will be able to draw a distinction between various forms of business.
- They will be able to understand the importance of P&L App A/C the need of making out P&L App A/C.
- They will be able to compile the financial statements of partnership Firms.
- They will be able to make inter firm comparison.

Methodology :

- Develop a case study showing how two or more friends decide to come to gather & start a business with a certain amount of capital
 - Prepare their Partnership deed including interest on capital partners salary, commission, Interest on drawings, Interest on partners loan & rent paid to a partner
 - Write in detail, their transactions during the year :Purchases\ -cash & credit, sales-cash & credit, expenses, purchase of fixed assets & depreciation charged on them, any outstanding expenses, prepaid expenses, accrued incomes drawing bills of exchange, accepting bills payable etc.
 - From this case study developed (which) should have at least 15 transactions) pass the journal entries, post them into the ledger, prepare a Trial balance & the Trading & Profit & Loss A/C profit & Loss Appropriation A/C & Balance sheet.
 - The Various expenses, for comparison purpose could be depicted in the form of bar diagrams & pie charts.
-

- Calculate relevant accounting ratios like liquidity, solvency, activity & profitability giving their formula & computation
- The ratios could also be shown graphically and or pictorially.

Marking Scheme

Overall Format	Content	Findings	Viva- Voice based on Project	Total
2	8	4	6	20

Project 2: Accounts

Outline : Preparation of common size & comparative Income statement & Balance sheet of a company by taking into account its audited, unaudited imaginary financial results of two. Consecutive quarters of an accounting year.

The comparison has to be made in the form of common size & comparative income statements & Balance sheet

The comparison could also be shown graphically or pictorially

Learning Objectives :

- (1) Students will be able to understand about the management information system.
- (2) They will understand the meaning of comparative & common size statements.
- (3) They will understand the method of drafting these statements.
- (4) They will be able to draw inferences based on the factual study

Learning Outcomes :

1. Students will be able to draw independently the comparative & common size statements
2. Final outcomes will be judged through the factual study
3. They will develop confidence & skills to make these statements

Marking Scheme

Overall Format	Content	Findings	Viva- Voice based on Project	Total
2	8	4	6	20

Project 1: Home Science

Topic:

Understanding labels

Objective:

To understand the concept of labelling

- To learn about the components of a good and informative label.
- To compare different labels in terms of mandatory requirements and information
- A good label could also have the following information :
- Register trade mark
- Picture of the product and major ingredients
- Consumer grievance number
- Direction of use
- Descriptions of raw ingredients
- Possible adverse effects.

Methodology:

Students will be required to prepare a brief paper presentation on the following:

- Gather three tables each from the following categories
- Food Products
- Cosmetics/Soaps/Detergents
- Medicines

Read the collected labels and record the observation.

Give suggestions on how the labels could be improved.

Learning Outcome:

The students should be able to describe the visual appearance of the labels

- The Various information to be put on labels.
- To suggest the improvements on the labels
- The statutory/ Mandatory requirements of a good label.

Support Required -

- **Access to Internet**
 - **Text Books**
 - **Library**
 - **News paper**
-

Marking Scheme

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Project 2: Home Science

Topic:

Management of Agriculture produce [Storage and Preservation]

Learning Objective:

- To Make the students learn about methods of food preservation, storage of foods and causes of spoilage of food.
- To compare and elaborate the simple household methods of food Preservation.
- Difference between perishable, semi perishable and non- perishable foods

Methodology:

Students will be required to prepare a brief paper presentation on

- Factors contributing to food spoilage
- Methods of storage of different types of food (perishable, non-perishable and semi-perishable foods)
- Physical and chemical methods used in homes to preserve foods.
- Methods used to preserve foods in different parts of the world (old & New)
-

Learning Outcome:

The students should be able to understand the importance & principles of food preservation

- The different methods of storing different types of food like perishable, Semi and non- perishable foods.
- The students should also know the chemical and physical methods of preserving food
- The different common methods used in our homes to preserve foods.

Sources :

Access to Library

Internet

Text books

Newspaper/Journals

Marking Scheme

Material	Content	Presentation	Innovation	Total
5	5	5	5	20

Project 1: Physical Education

VOLLEYBALL ASSIGNMENT

DEFINE FOLLOWING BY GRAPH& PICTURE

5. History of volleyball (50 word)
6. Basic general rules of volleyball
7. Measurement of playfield and specification of sports equipments with net & antenna
8. Fundamental skill of volleyball
 - (e) Blocking
 - (4) One men block (2) Two men block (3) Three men block
 - (f) Passing
 - (2) Underhand pass (2) Overhand pass
 - (g) Spiking and smashing
 - (2) Single spike (2) Complex spike
 - (h) Service
 - (3) Underhand service (2) Tennis service (3) Spin service
 - (4) Floated service (5) Round arm service
 - (5) Jump service

SOLVE ALL SHORT ANSWER TYPE QUESTIONS:-

- Q1. Explain how games and sports are helpful in promoting national integration among the players.
 - Q2. List the various career options available in the field of physical education. Discuss any four of them in detail.
 - Q3. What is meant by bruises? Mention five measures that can be taken by an individual to prevent sports related accidents.
 - Q4. What are duties of referee, assistance referee and line mans in volleyball game?
 - Q5. List & explain any ten faults which a player is likely to commit during a game of volleyball.
 - Q6. Explain the following:
 - (i) Assisted hit (ii) Penetration fault
 Expand the following:
-

- (i) FIVB (ii)VFI (iii)AVF (iv)UVA (v)JVA

Q7. Briefly explain the following:

- (i). Seeding and byes
- (ii). Knock-out or elimination tournaments
- (iii). League or RoundRobin tournaments.
- (iv). Combination tournament
- (v). Challenge tournament
- (vi). Draw a fixture of 17 team know out tournament &

Consolation tournament type 1st and type 2nd

Support required

Text book, Access to library, Internet

CRICKET ASSIGNMENT

DEFINE FOLLOWING BY GRAPH& PICTURE

7. cricket history (50 word)
 8. latest general rules of cricket
 - (a) players (b) substitutes (c) boundaries (d) batsman getting out
 9. Rules Related to twenty-20 match
 10. Measurement of playfield and specification of sports equipments
 11. Fundamental skills and Terminologies of cricket
 - A. Batting skill
 - (1) Grip (2) Stance (3) Forward defence stroke
 - (4) Backward defence stroke Cover drive (5) On drive (6) Straight drive
 - (7) Pull (8) Hook (9) Sweep shot
 - B. Bowling skill
 3. Fast bowling- in swing, out swing, off cutter, leg cutter
 4. Spin bowling- off break, leg break, top spin, googly
 - F. Fielding skill
 3. Stopping and throwing
 4. Catching- high catches, low catches
 12. Terminologies related to cricket
 - (1) Dolly catch (2) Maiden over (3) Hitwicket (4) Maiden over
 - (5) Gully (6) Setter (7) Duck (8) Golden a duck (9)Dead ball
 - (10) Bouncer (11) Free hit (12) Stricker and non stricker
 - (13) Seam (14) No ball
-

SOLVE ALL SHORT ANSWER TYPE QUESTIONS

- Q1. Explain the term disability. State the general principles of prevention of disability.
- Q2. Explain the effects of exercise and training on the human respiratory system.
- Q3. What is meant by tampering of ball? Mention any two ways by which a ball is tampered.
- Q4. Expand and explain the following:
(1) ICC (2) BCCI (3) WCAI
- Q5. Specific Exercises of Warm-up and Conditioning in cricket game.
- Q6. Explain the duties of an umpire and referee before start & during a cricket match.
- Q7. Draw a neat cricket ground and indicate all correct points of fielding.

Support required**Text book, Access to library, Internet****Marks will be allotted for discipline also****Physics project****XII Sc.**

Students have to prepare a working model and project report on the topics allotted to them. The topics are as follows :

Hydraulic crane, Automatic street light, Water level Indicator, Fire alarm, Traffic signal, half wave rectifier, Full Wave Rectifier, Battery Eliminator, Logic gates, Multileveled car parking, Emergency light and security system of car parking.

Marking Scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10