



R.E.D. Group of Schools
Summer Holidays Homework Framework
SESSION: 2023-24

CLASS – 11th

Subject: English

Text Book: - N.C.E.R.T. (Hornbill, Snapshot) and BBC Compacta

1. Syllabus Covered up to MAY END

Book: Hornbill

- Chapter No.-1 Chapter Name- The Portrait of a Lady
- Chapter No.- 2 Chapter Name- We are not Afraid to Die
- Poem No.- 1 Poem Name- A Photograph
- Poem No.-2 Poem Name- The Laburnum Top

Book: Snapshots

- Chapter No.- 1 Chapter Name- The Summer of the Beautiful White Horse

2. List of all new concepts taught up to MAY END (Writing Skills)

- Reading Comprehension
- Note Making and Summarization
- Advertisements
- Speech Writing

3. Tools required for doing Homework:

- Reader Book
- Notebook
- Scrap Book
- Resources as per activity

4. Date of Submission of Homework: 3rd July, 2023

5. Formative Assessment based Homework:

- **Section-A-Reading and Vocabulary Homework**
 - Each student will read –
Fictional work: The Centerville Ghost written by Oscar Wilde and
Non-fiction: The Diary of a Young Girl by Anne Frank
Write review of both the works separately using the following steps

Note: - Do the following homework in scrap book

- ✓ Draw creative page as front page
 - ✓ Identify and list the Main characters in the story
 - ✓ Write the summary of the story as follows :—
 - ❖ Beginning
 - ❖ Middle
 - ❖ End
 - ✓ Write your favourite part of the story
 - ✓ Mention anything you disliked about the story
 - ✓ Story rating out of 5 and why
 - ✓ If you were the author how will you end the story
2. Read any English newspaper once in a week and find out 5 new words from it & frame a sentence from it and present them in the same scrap book

Vocabulary Homework

- Make your own dictionary.(Each student will learn 3 new words daily with meanings and write the words in dictionary)

Total 45 words should be included in your dictionary

○ **Section-B- Speaking Homework**

1. Students will practice on one of the given topics: -

- Benefits and challenges of living in a joint family.

OR

- Build a conversation of eight to ten sets of exchange, with your grandmother discussing the incidents that happened in your school that day.

OR

- Every member contributes to form a happy family. Share your views for a minute or two

Students will prepare speaking activity video on any one of the above topics and share with English teachers on WhatsApp group

○ **Section-C-Creative Writing Homework**

Creative Writing Homework (Do any two creative writing topic)

- **Travelogue writing:**

There are many tourist attractions. They are popular for many reasons. Some places are popular for their natural beauty whereas others are for their historical and religious importance. Write the names of the places that you would like to visit in our country: Naturally beautiful places, places of historical and religious importance. Have you ever visited such places on your holidays? Write down the places you have visited so far. Write detailed description of a visited place in the form of a paragraph.

- **Character portrait/ sketch writing** of your favorite character from the movie “A Little Dream” on A4 size sheet.

- **Review writing :**

Discuss and explain the movie 'The Jungle Book' with the help of the following points.

- Classic element.
- Fantasy.
- Photorealism
- Blending of emotions

- **Section-D-** Learning and Pre reading Homework

1. **Pre reading** – Snapshot (Ch-2 The Address) , Hornbill (Ch-3 Discovering Tut: The Saga Continues)

- **Learning** - Ch 1 The Portrait of a Lady, Ch 2 We are not Afraid to Die

Poem 1 A Photograph, Poem 2 The Laburnum Top

Ch. 1, The Summer of the Beautiful White Horse

- **Section-E-** Project work

Prepare a student portfolio and include the following details: -

- Personal details
- What I understand by portfolio
- My goals/ Aim in life for future
- My achievements till now
- The areas I need to work to achieve my goal

Following projects can be given for Grammar Topic covered in the month of April and May:-

2. 12 tenses formula with examples

OR

Verb project chart

OR

Parts of speech and application

3. Grammar flip book with Transformation of Sentences (Narration/Voice)

OR

Draw your favorite fiction-character from any one work of the writer Ruskin Bond and describe it using 10 adjectives.



R.E.D. Group of Schools

Summer Holidays Homework

SESSION: 2023-24

CLASS – 11th to 12th

Subject: Accountancy

Text Book: DK GOEL

1. **Syllabus Covered up to MAY END**

Chapter No. 1, Chapter Name- Meaning and objectives of Accounting

Chapter No. 2, Chapter Name- Basic Accounting Terms

Chapter No. 3, Chapter Name- Accounting Principles

Chapter No. 4, Chapter Name- Process and Bases of Accounting

Chapter No. 6, Chapter Name- Accounting Equations

2. **List of all new concepts taught up to MAY END**

- To know about accounting.
- To know about different terminologies.
- To know about the principles and concepts of accounting

3. **Formative Assessment based Homework:**

Section-A - Creative Project/ Working model/ Inquiry based project.

Section-B - Chart Work

Section-C - Learning and Pre-reading Homework

Section-D - Collection of Bills (Cash or Credit)

Section-E - Case Studies

4. **Summative Assessment based Homework:**

Section-F- Chapter-wise Assignments

5. **Tools required for doing Homework:**

- Text Book (D.K. GOEL)
- Notebook
- A4 Sheets
- Resources as per activity

6. **Instruction/Guidelines for Formative Assessment based Homework:**

- **Section-A (Inquiry based project model)**

| <i>Topic</i> | <i>Roll No.</i> |
|---|-----------------|
| Record Keeping | 1 to 10 |
| Summarize Financial Transaction (At Least 10) | 11 to 20 |

- **Materials Required:**

Use of Excel Sheet or Any other Android Based App from Play store **OR**

Use A4 Sheet to prepare Accounting Equation & Balance Sheet

- **Steps to prepare/enquire the topics :**
 - **Record-keeping:** Maintaining accurate records of expenses incurred during summer vacation is essential for tracking spending and evaluating financial decisions. Students can learn about record-keeping methods, such as tracking receipts, using spreadsheets, or utilizing personal finance apps.
 - **Summarize financial transactions (at least 10):** Students will collect financial data from a chosen company and organize it in a systematic and coherent manner. They will ensure that all relevant financial information is properly recorded and classified according to accounting principles and standards.
- **Section-B (Chart Work)**
 - **Make chart on given topic.**
Topic Accounting Principles
Or
Topic Rules of Debit & Credit by American Approach
- **Section-C (Learning and Pre-reading homework)**
 - **Learning Homework:** Learn Chapter 7,9 Journal Entries & Theories of Text Book (DK GOEL)
 - **Pre-Reading Homework:** Read Page no. 11.1 to 11.5 of Text Book (DK GOEL)
- **Section-D- Preparation of Bills (Cash or Credit)**
 - **Materials Required:** Visit your Nearby Market or any online shopping.
 - **Steps to prepare:**
 - 1) Take Bills of Various Transactions in between your Holidays.
 - 2) Make their Vouchers.
- **Section-E – Case Studies (6)**
 - **Do given case studies**
 - (i) What is the value involved in giving the figures of previous year along with the figures of current year in financial statements?
 - (ii) Mr. Ganpati, the proprietor of a business, sold his residential house for Rs 50 Lac. Will it be recorded in the books of accounts?
 - (iii) What is the value involved in giving explanatory notes with the financial statements?
 - (iv) Principal of public school conducted an interview of candidates for selection of an accountancy teacher. Miss Aruna was selected and was given an appointment letter wherein her salary was stated as Rs 30,000 per month. Will it be recorded in the books of accounts?
 - (v) What is the value involved in adopting the same method of depreciation year after year?
 - (vi) Mr. Dinanath who owed us 50,000 became insolvent and paid only 40% of this amount. What is term used for the amount not received?
- **Section-F (Revision assignment)**



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Revision Assignment - 1

Class: XI

Subject: Accountancy

Ch. Name: Meaning & Objectives of Accounting

Chapter No.: 1

For recapitulation & solving the assignment the students should refer to their D K GOEL book of Accountancy

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Accounting is a process of identifying the events of financial nature, recording them in the journal, classifying in their respective accounts and Summarising them in profit and loss account and balance sheet and communicating results to users of such information, viz. owner, government, creditor, investors, etc.

Q.1. Which of the following transactions is not of financial character?

- | | |
|---------------------------------|--------------------------------|
| (a) Purchase of asset on credit | (b) Purchase of asset for cash |
| (c) Withdrawing of money by | (d) Strike by employees |

Q.2. Last step of accounting process is:

- (a) Provide information to various parties who are interested in business enterprise.
- (b) Record transactions in the books
- (c) To make summary in the form of financial statements.
- (d) To classify the transactions under separate heads in the ledger.

Q.3. Internal users of accounting information are

- | | |
|-------------------------|---------------|
| (a) Potential investors | (b) Creditor |
| (c) Management | (d) Employees |

Part-2

Subject Specific conceptual definitions & Application based Questions

Q.4. Define the following terms:-

- i) Book keeping
- ii) Accounting
- iii) Accountancy

Q.5. Application based question:-

- i) What are the attributes (features) of accounting?
- ii) Give difference between Book-keeping and Accounting on the basis of stage, special skills and nature of job

Part-3

Numerical Questions

Q.6. Solve the following questions:-

1. Mr. Ganpati, the proprietor of a business, sold his residential house for Rs 50 Lac. Will it be recorded in the books of accounts?
2. Principal of public school conducted an interview of candidates for selection of an accountancy teacher. Miss Aruna was selected and was given an appointment letter wherein her salary was stated as Rs 30,000 per month. Will it be recorded in the books of accounts?



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Revision Assignment - 2

Class: XI

Subject: Accountancy

Ch. Name: Basic Accounting Terms

Chapter No.: 2

For recapitulation & solving the assignment the students should refer to their D K GOEL book of Accountancy

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

It involves an economic activity. For example, when goods are purchased or sold for cash or on credit or when salaries are paid to employees or when interest is paid on money borrowed from the bank, a business transaction takes place. Social activities are not considered as transactions. For example if X purchases a gift for his friend, it will not be considered as a transaction because it is social engagement.

1. Current liabilities include:
 - (a) Bills payable
 - (b) Creditors
 - (c) Outstanding expenses
 - (d) All of the above
2. Which of the following is capital expenditure?
 - (a) Wages
 - (b) Wages paid for building construction
 - (c) Repair expenses of building
 - (d) Advertisement expenses
3. A person who owes money to the firm is called.....
 - (a) Debtor
 - (b) Creditor
 - (c) Supplier
 - (d) None of these

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- i) Account
 - ii) Non current Assets.
 - iii) Events
- Q.5. Application based question:-
- i) What are types of Accounting?
 - ii) State three limitations of accounting.

Part-3

Numerical Questions

- Q.6. Solve the following questions:-
- i) Mr. Jaspal Singh dealing in electronic goods sold 20 TV sets costing 30,000 each at 40,000 each. Out of this 5,00,000 were received in cash and the balance is not yet received. State the amount of revenue.
 - ii) Mr. Dinanath who owed us 50,000 became insolvent and paid only 40% of this amount. What is term used for the amount not received



R.E.D. Group of Schools

Revision Assignment - 3

Class: XI

Ch. Name: Basic Accounting Principles

Subject: Accountancy

Chapter No.: 3

For recapitulation & solving the assignment the students should refer to their D K GOEL book of Accountancy

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

In order to make the accounting information meaningful to its internal and external users, it is significant that such information is reliable as well as comparable. The comparability of information is required to see how a firm has performed as compared to the other firms and how it has performed as compared to the previous years. This becomes possible only if the information provided by the financial statements is based on some set rules known as policies, principles and conventions. These rules (usually

- Q.1. The owner of the firm records his medical expenses in the firms' income statement indicate the principle that is violated.
- (a) Cost concept (b) Prudence
(c) Full disclosure (d) Entity concept
- Q.2. M/s Future Ltd. has invested 10,000 in the shares of Relicam industries Ltd. industries Ltd. current market value of these shares is 10,500. Accountant of future Ltd. wants to show 10,500 as value of investment in the books of accounts, which accounting convention restricts him from doing so?
- (a) Full disclosure (b) Consistency
(c) Conservatism (d) Materiality
- Q.3. Which of these is not a fundamental accounting assumption?
- (a) Going concern (b) Consistency
(c) Accrual (d) Materiality

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- i) Accrual Concept
ii) Cost Concept
iii) Accounting Convention
- Q.5. Application based question:-
- i) What do you mean by Accounting Concepts?
ii) "Revenue earned and cost of earning that revenue should be properly identified for a period."
Explain this statement.

Part-3

Numerical Questions

- Q.6. Solve the following questions:-
- i) A customer of X Ltd. has discontinued his business. He used to purchase 30% of the total goods produced by X Ltd. Is it a relevant information in your opinion and should be disclosed by X Ltd.
- ii) X Ltd. gets a contract of Rs 100 crore to build a Shopping-Mall to be completed in 3 years. The management of the company wants to ascertain profit or loss on this contract only when the contract is completed is the management justified?



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Revision Assignment - 4

Class: XI

Subject: Accountancy

Ch. Name: Process and Base of Accounting

Chapter No.: 4

For recapitulation & solving the assignment the students should refer to their D K GOEL book of Accountancy

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Accounting process begins with the origin and identification of business transaction and is followed by recording, classification and summarization of business transactions culminating in preparation of trial balance and financial statements, i.e., Profit & Loss Account and Balance Sheet. Following steps are followed in accounting process:

- Q.1. In cash basis, expenses are recorded:
- (a) When paid in cash (b) When not paid in cash
(c) When paid or not paid in cash (d) None of the above
- Q.2. Book-keeping is mainly concerned with:
- (a) Recording of financial data
(b) Designing the systems of summarising the recorded data
(c) Interpreting the data for internal and external users
(d) Preparation of financial statements of the business enterprise
- Q.3. Which of the following is not a sub-field of accounting?
- (a) Financial accounting (b) Book Keeping
(c) Management accounting (d) Cost Accounting

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- i) Voucher ii) Cash Basis iii) Accrual Basis
- Q.5. Application based question:-
- i) Under this system of accounting, a transaction is recorded in the books when it is entered into and not when the settlement takes place.
- ii) Which basis of accounting is recognized under companies act, 2013?

Part-3

Numerical Questions

- Q6. Solve the following questions:-
- i) In a financial year, Vinod had total of Rs 7,40,000, out of which Rs 5,60,000 were received in cash. The total expenses paid by him were Rs 3,80,000, out of which Rs 30,000 belongs to next year and Rs 10,000 are still outstanding. Determine Vinod's income for the year as per:
- (a) Cash basis of Accounting (b) Accrual basis of accounting
- ii) During the financial year 2016-17, Shyam earned a total revenue of Rs 4,70,000 by selling the goods. Out of the total sales, three were credit sales of Rs 1,30,000. The total expenses for the year were Rs 2,50,000, out of the which Rs 30,000 are still outstanding. Find out Shyam income for 2016-17 as per:
- (a) Cash basis of Accounting.
(b) Accrual basis of accounting.



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Revision Assignment - 5

Class: XI

Ch. Name: Accounting Equations

Subject: Accountancy

Chapter No.: 6

For recapitulation & solving the assignment the students should refer to their D K GOEL book of Accountancy

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Accounting equation signifies that the assets of a business are always equal to the total of capital and liabilities. A business transaction will result in the change in either of the assets, liabilities or capital of the firm and even after the change the assets will be again equal to the total of capital and liabilities. If a business transaction results in the increase of assets, there will also be a corresponding increase in the amount of either capital or liabilities by the same amount

- Q.1. Main elements of accounting equation are:
- | | |
|--|--|
| (a) Capital, Creditors and Bills Payable | (b) Assets, Liabilities and Capital |
| (c) Cash, Stock and Debtors | (d) Bank balance, Investments and Bills Receivable |
- Q.2. As a result of the following transactions, the total of accounting equation will be.....
- | | |
|--|--------------------------------------|
| (i) Started business with cash Rs. 2,00,000. | (ii) Purchased furniture Rs. 25,000. |
| (iii) Purchased goods on credit Rs. 60,000. | |
| (a) Rs. 2,85,000 | (b) Rs. 2,25,000 |
| (c) Rs. 2,35,000 | (d) Rs. 2,60,000 |
- Q.3. As a result of the following transactions, the total of accounting equation will be.....
- | | |
|---|--|
| (i) Started business with Cash Rs. 5,00,000 | (ii) Goods purchased for cash Rs. 2,00,000 |
| (iii) Goods costing Rs. 1,50,000 sold for Rs. 1,60,000 on credit: | |
| (a) Rs. 4,60,000 | (b) Rs. 7,10,000 |
| (c) Rs. 5,10,000 | (d) Rs. 6,60,000 |

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- | | | |
|-----------|-----------------|--------------|
| i) Assets | ii) Liabilities | iii) Capital |
|-----------|-----------------|--------------|
- Q.5. Application based question:-
- If the Capital of a business is Rs. 1,20,000 and Outside liabilities are Rs. 20,000, calculate total assets of the business.
 - If total assets of a business are Rs. 1,30,000 and capital is Rs. 80,000, calculate creditors.

Part-3

Numerical Questions

- Q.6. Solve the following questions:-
- Prepare Accounting Equation on the basis of the following transactions:
 - Started business with cash Rs. 70,000.
 - Credit purchase of goods Rs. 18,000.
 - Payment made to creditors in full settlement Rs. 17,500.
 - Purchase of machinery for cash Rs. 20,000.
 - Prepare accounting equation from the following:
 - Started business with cash Rs. 50,000 and goods Rs. 30,000.
 - Purchased goods for cash Rs. 30,000 and on credit from Karan Rs. 20,000. (c) Goods costing Rs. 40,000 were sold for Rs. 55,000 for cash.
 - Withdrew cash for personal use Rs. 10,000.
 - Rent outstanding Rs. 2,000.



R.E.D. Group of Schools

Summer Holidays Homework

SESSION: 2023-24

CLASS – 11th to 12th

Subject: Business Studies

Text Book: Poonam Gandhi

1. **Syllabus Covered up to MAY END**

Chapter No. 1, Chapter Name - Evolution & Foundation of Business

Chapter No. 2, Chapter Name - Forms of Business Organisation

Chapter No. 3, Chapter Name - Private Public & Global Enterprise

2. **List of all new concepts taught up to MAY END**

- History of Trade & Business
- Concept of Business
- Concept of Profession and Employment
- Private Company
- Government Company
- Memorandum of Association
- Articles of Association
- Global Enterprises

3. **Formative Assessment based Homework:**

Section-A - Working model

Section-B - Case Studies

Section-C - Chart Work

Section-D - Enquiry based activity

Section-E - Learning and Pre-reading Homework

4. **Summative Assessment based Homework:**

Section-F- Chapter-wise Assignments

5. **Tools required for doing Homework:**

- NCERT Text Book
- Notebook
- A4 Sheets
- Resources as per activity

6. **Instruction/Guidelines for Formative Assessment based Homework:**

- **Section-A (Working model)**

| <i>Topic</i> | <i>Roll No.</i> |
|---------------------|-----------------|
| Economic Activities | 1 to 10 |
| Business Risk | 11 to 20 |

- **Materials required as per project.**

- **Steps to prepare:**
 - Take some prints as per your topic selected
 - Paste on A4 sheets
 - Explain them in at least 100 words

○ **Section-B (Case Studies)**

(6)

○ **Do given case Studies**

- (i) Nancy makes some beautiful paper flowers and sells them to her neighbour for 600. Her Aunt Mrs. Higgins prepares chocolates for supply to a local bakery. Who is engaged in a business activity and why?
- (ii) Ravina is good at stitching clothes. She stitched some clothes for an exhibition she had planned. Some of these clothes were donated by her to orphan children in her locality while other clothes were sold in the exhibition. How are the two activities different from each other?
- (iii) "One man control is the best in the world if that man is big enough to manage everything." Explain the statement.
- (iv) Bhuvan wants to set up a private limited company. As an advisor of Bhuvan, guide him and explain the steps of formation of a private limited company
- (v) "Multinational companies are a mixed blessing to the developing countries." In the light of this statement explain the return of MNC
- (vi) Can the public sector companies compete with private sector in terms of profit and efficiency? Give reasons for your answer.

○ **Section-C (Chart Work)**

○ **Make chart on given topic.**

Topic Memorandum of Association

OR

Topic Articles of Association

○ **Section-D (Enquiry based activity)**

- **Materials Required:** Mobile or Laptop, A4 Sheets
- **Steps to prepare:**
 - 1) Search for top 5 Private Businessman Business Activities
 - 2) Type of Economic activity they are doing?
 - 3) Their Profit during last 3 years
 - 4) Write all the data in comparison table on A4 Sheets

○ **Section-E (Learning and Pre-reading homework)**

- **Learning Homework:** Learn Chapter 2 & 3 of Poonam Gandhi Text Book.
- **Pre-Reading Homework:** Read Chapter Number 5 at least 5 pages of Poonam Gandhi Book.

○ **Section-F (Revision assignment)**



R.E.D. Group of Schools

Revision Assignment - 1

Class: 11th

Subject: Business Studies

Ch. Name: Evolution & Foundation of Business

Chapter No.: 1

For recapitulation & solving the assignment the students should refer to their Poonam Gandhi book.

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Some of these activities are undertaken to earn money but others are performed to derive personal satisfaction. On examination of the human activities, one can find that some of these activities produce direct economic benefits e.g., working in office, running a shop, practising as a doctor, etc. while others do not produce direct economic benefits e.g., cooking, playing, going to school, going to temple, etc

- Q.1. The industries which provide support services to other industries are known as _____.
- (a) Primary Industries (b) Secondary Industries
(c) Commercial Industries (d) Tertiary Industries
- Q.2. The occupation in which people work for others and get remunerated in return is known as _____.
- (a) Business (b) Profession
(c) Employment (d) None of these
- Q.3. Which of the following does not characterize business activity?
- (a) Production of goods & services (b) Presence of risk
(c) Sale of exchange of goods and services (d) Salary and wages

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- i) Business
ii) Profession
iii) Hundi
- Q.5. Application based question:-
- It is one of the activities means for assisting trade and help in the promotion of the product by providing information to the consumes. Business does not exist in isolation, it has to communicate with others and the activity help in making consumers aware and informed about the product of the company and inducing them to buy particular items.
 - i) Which activity is discussed in the above Para?
 - ii) What are those activities called which are meant for assisting trade?
 - iii) Name and explain the categories into which communication services can be classified.
 - A factory emits a lot of smoke and pollutants while manufacturing sugar. It s overlooking the impact of its activities on the environment is engaged in profit maximization.
 - i) Which objective is not being fulfilled by the manufacturers?
 - ii) Which type of industry will you classify sugar manufacturing in?

Part-3

Short Questions

- Q6. Answer the following questions:-
- i) Write four differences among Business, Profession and Employment.
- ii) 'Define Commerce. Why is it of great importance on modern life?



R.E.D. Group of Schools

Revision Assignment - 2

Class: 11th

Subject: Business Studies

Ch. Name: Forms of Business Organisations

Chapter No.: 2

For recapitulation & solving the assignment the students should refer to their Poonam Gandhi book.

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

A business enterprise is an organisation which is engaged in some businesses or commercial activities. Every business enterprise is a separate and distinct unit of business.

Every business entity adopts some forms of business organisation to carry out business activities. Business enterprises may be classified into three broad categories: Private sector enterprises; Public sector enterprises; Joint sector enterprises

- Q.1. Bad debts due to non-payment of debt by debtor are an example of which type of business risk?
- (a) Human (b) Natural
(c) Physical (d) Economic
- Q.2. Business risk is not likely to arise due to
- (a) Power failure (b) Employee dishonesty
(c) Changes in government policy (d) Good management
- Q.3. Tea is mainly produced in Assam; Cotton in Gujarat and Maharashtra; Jute in west Bengal and Orissa; Sugar in U.P., Bihar and Maharashtra. But these goods are required for consumption in different parts of the country. For this purpose _____ is very important.
- (a) Banking and finance (b) Advertising
(c) Insurance (d) Transport and Communication

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- Formation of Companies
 - Types of Co-operative society
 - Choice of Business organisation
- Q.5. Application based question:-
- Differentiate between the following activities into business, profession and employment.
 - Mohan is selling books on behalf of his employer
 - Reeta is practicing law or doing legal practice
 - Rattan is running his private clinic
 - A cart-vendor is selling toys in a fair
 - How does a trader get rid of the hindrance of a person?

Part-3

Short Questions

- Q6. Answer the following questions:-
- When is the maximum possibility of business risk?
 - What type of business risk the unfavourable policies happens to be?



R.E.D. Group of Schools

Revision Assignment - 3

Class: 11th

Ch. Name: Private Public & Global Enterprises

Subject: Business Studies

Chapter No.: 3

For recapitulation & solving the assignment the students should refer to their Poonam Gandhi book.

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

With Enactment of LIC Act, 1956, an autonomous body, Life Insurance Corporation of India was formed. The act defines its powers, duties and functions. It has a separate legal entity. It is fully owned by government. It has independent financial policy and can raise funds by borrowing from public and government. However it is not subject to any budgetary accounting or audit control like Railways. Its annual report is presented in parliament every year.

- Q.1 Name the type of public sector enterprise referred in above case.
Q.2 Name the act under which it is formed.
Q.3 Name any other statutory corporation.

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
i) Departmental Undertaking
ii) Statutory Corporation
iii) Government Company
- Q.5. Application based question:-
i) State any three situations wherein Government Company is the most suitable form of public sector organisation.
ii) Identify the type of public sector enterprises on the basis of the following clues about it, in each of the following cases and also give an example of the same in real life. It doesn't hold majority shareholding by the community and neither does it accept any interference in audit and accounting from the government but at the same time enjoys high dividend distribution to its members in case of profits.

Part-3

Short Questions

- Q6. Answer the following questions:-
i) Explain the concept of Public sector private sector?
ii) State various types of organisations in the Private Sector?



R.E.D. Group of Schools

Summer Holidays Homework

SESSION: 2023-24

CLASS – 11th to 12th

Subject: Economics

Text Book: Sandeep Garg

1. **Syllabus Covered up to MAY END**

- Chapter No. 1, Chapter Name - Introduction to Micro Economics
- Chapter No. 2, Chapter Name - Consumer's equilibrium
- Chapter No. 3, Chapter Name - Demand
- Chapter No. 4, Chapter Name - Elasticity of Demand

2. **List of all new concepts taught up to MAY END**

- Economic problem, Central problem of economy and production possibility curve.
- Consumers equilibrium cardinal and ordinal approach, law of diminishing marginal utility, indifference curve analysis, budget line, MRS and MRE.
- Law of demand, substitute goods, complementary goods, inferior goods and Griffen goods.
- Elasticity and degree of elasticity.

3. **Formative Assessment based Homework:**

Section-A - Project work

Section-B - Picture observation-based writing/ Case studies

Section-C - Chart Work

Section-D - Current affairs

Section-E - Learning and Pre-reading Homework

4. **Summative Assessment based Homework:**

- **Section-F** - One assignment for each chapter from the syllabus covered before holidays.

5. **Tools required for doing Homework:**

- NCERT Text Book
- Notebook
- A4 Sheets
- Resources as per activity

6. **Instruction/Guidelines for Formative Assessment based Homework:**

○ **Section-A (Project work)**

| <i>Topic</i> | <i>Roll No.</i> |
|---|-----------------|
| Demand | 1 to 10 |
| Production possibility curve | 11 to 20 |
| Cardinal approach of consumer equilibrium | 21 to 30 |
| Ordinal approach of consumer equilibrium | 31 to 40 |

- **Materials required as per project.**

- **Steps to prepare:**
 - 1) Identifying the Project Statement.
 - 2) Setting the Project Objective and Scope of the Project .
 - 3) Defining the Project Tasks and Responsibilities (Creating the Work Flow Structure).
 - 4) Monitoring the Project and Finding the Important Resources Required.

- **Section-B (Picture observation-based writing).**

- **Observe the picture given below and write your views**

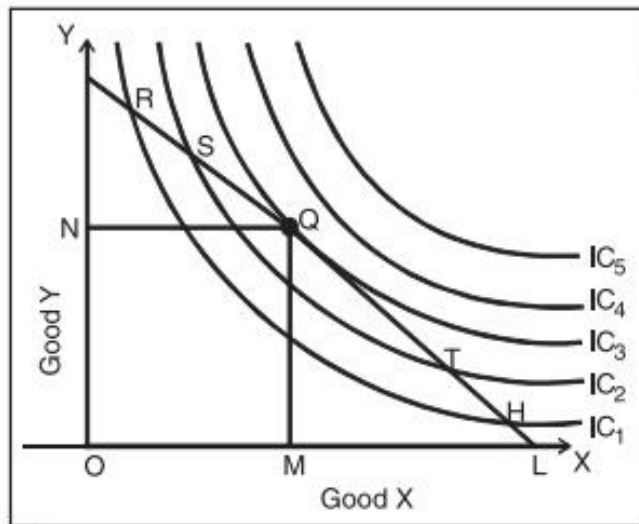


Fig. 1 : Consumer's Equilibrium

- **Section-C (Chart Work)**

- **Make chart on given topic.**

Topic: Consumer Equilibrium in Case of Two Commodities.

OR

Topic: Consumer Equilibrium in Case of One Commodities.

- **Section-D (Current affairs)**

- Collect data on the given issue in economy- High rates of unemployment or underemployment

- **Materials Required: Internet, A4 Sheets, Statistical Data**

- **Steps to prepare:**

Collect Statistical Data from internet, analyse the data and state various reasons for unemployment or underemployment.

- **Section-E (Learning and Pre-reading homework)**

- **Learning Homework:** Learn Ch- 3 & 4 from Sandeep Garg Book.

- **Pre-Reading Homework:** Read Page no. 6.1 to 6.10 of NCERT Text Book.

- **Section-F (Revision assignment)**



R.E.D. Group of Schools

Revision Assignment - 1

Class: 11th

Ch. Name: Introduction

Subject: Economics

Chapter No.: 1

For recapitulation & solving the assignment the students should refer to their Sandeep Garg book. (Ch-1)

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Each economy has scarce resources and will have possibility of being exhausted gradually after a continuous use. Growth of resources, therefore, becomes a basic problem of the economy. It can achieve this objective through technological advancement. Under-developed countries like India, Pakistan and Thailand etc. have remained poor because of poor growth of their resources. Besides fuller utilization of resources, these countries should try to raise their productive capacities, by exploring further availability of natural resources and discovering better techniques for their use. Moreover, full use of productive capacity is also indispensable for the growth of the economy. Since economic theory is classified into Micro and Macro Theory. Microeconomic theory deals with the allocation of resources in the market economy. In this theory, decisions regarding 'what', 'how' and 'for whom' to produce are decided on the basis of price mechanism. Goods are freely bought and sold in the market economy on an agreed price. Macroeconomic theory deals with the fuller and efficient use of resources. It also deals with the growth of resources and problems relating saving, investment, inflation, unemployment etc. Development economics deals with the problem of growth of resources.

- Q.1. Which is a central problem of an economy?
(a) Allocation of resources (b) optimum utilization of resources
(c) Economic development (d) all of these
- Q.2. To which factor, economic problem is basically related to:
(a) Choice (b) Consumer selection
(c) Firm selection (d) None of these
- Q.3. Macro Economics deals with the
(a) Allocation of resources (b) Aggregate use of resources
(c) Both (a) & (b) (d) None of these

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
(i) Scarcity (ii) Normative Economics (iii) Marginal rate of transformation

Q.5. Application based question:-

1. The following table depicts the production possibilities of commodities X and Y:

| Possibility | A | B | C | D | E |
|-------------|----|---|---|---|---|
| Commodity X | 0 | 1 | 2 | 3 | 4 |
| Commodity Y | 10 | 9 | 7 | 4 | 0 |

- (a) Show these production possibilities through PPF. What do the points on the curve indicate?
(b) Label a point F inside the curve. What does this point indicate? (c) Label a point G outside the curve. What does this point indicate?
(c) What must occur so that the economy can attain the level of production as indicated by point G?
2. Explain the concept of change in PPF.

Part-3 (Short Questions)

- Q.6. Answer the following questions:-
i) What are the central problems of an economy?
ii) Differentiate between microeconomics and macroeconomics.



R.E.D. Group of Schools

Revision Assignment - 2

Class: 11th

Subject: Economics

Ch. Name: Consumer's Equilibrium

Chapter No.: 2

For recapitulation & solving the assignment the students should refer to their Sandeep Garg book. (Ch-2)

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Read the following and answer the questions on the basis of the same: -

A consumer is an economic agent who uses goods and services for the direct satisfaction of his / her wants. Consumer consists of institution, individuals and groups of individuals or households. Consumer behaviour refers to the way in which consumers spend their income. The consumer derives utility from his expenditure. The consumer chooses his expenditures and maximums his utility with the given income and given prices of goods and services. Consumption of goods and services leads to satisfaction of human wants. This satisfaction is called "Utility". Utility may be defined as "satisfaction derived from the consumption of a commodity" or it may be defined as "want-satisfying power of a commodity". Total Utility (TU) It is the sum total of utility derived from the consumption of all the units of a commodity. Marginal Utility (MU). It refers to additional utility on account of the consumption of an additional unit of a commodity.

Q.1. Utility in economics means: -

- | | |
|--|----------------|
| (a) Want satisfying power of a commodity | (b) Pleasure |
| (c) Happiness | (d) Usefulness |

Q.2. Marginal utility is: -

- | | |
|---------------------------------|--|
| (a) Total minus average utility | (b) Addition to total utility |
| (c) Total plus average utility | (d) Total utility divided by the number of units |

Q.3. Total Utility is.....

Part-2

Subject Specific conceptual definitions & Application based Questions

Q.4. Define the following terms:-

- i) Budget set
- ii) MRS
- iii) MU in terms of money

Q.5. Application based question:-

- i) Explain the relationship between TU and MU with the help of curve.
- ii) Explain the concept of consumer's equilibrium with the help of indifference curve analysis.

Part-3

Short Questions

Q.6. Answer the following questions:-

- i) Explain the law of DMU with its assumptions.
- ii) Explain the concept of consumer's equilibrium in case of two commodities.



R.E.D. Group of Schools

Revision Assignment - 3

Class: 11th

Ch. Name: Demand

Subject: Economics

Chapter No.: 3

For recapitulation & solving the assignment the students should refer to their Sandeep Garg book. (Ch-3)

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

If our income rises, we generally tend to buy more of the goods. More income would mean more pens, more shirts, more shoes, more cars and so on. But there are exceptions. If initially, you are buying coarse grain, how would you take your increase in income now? Perhaps, as a first step, you would discard the consumption of inferiors. Surely, this happens in the deserts of Rajasthan where the rich minority eats wheat while the poor majority eats Bajra as their staple food.

- Q.1 The law of demand does not apply to _____ goods. (Normal/ Giffen)
- Q.2 Inferior goods are those whose income effect is _____. (Negative/ Positive)
- Q.3 A fall in income of the consumer (in case of normal goods) will cause
- Upward movement on the demand curve.
 - Downward movement on the demand curve.
 - Rightward shift of the demand curve.
 - Leftward shift of the demand curve.

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- Giffen goods
 - Contraction of demand
 - Complementary goods
- Q.5. Application based question:-
- Explain the effect on demand curve with respect to change in income with the help of graph.
 - Explain the difference between Substitute goods and Complementary goods with the help of schedule.

Part-3

Short Questions

- Q.6. Answer the following questions:-
- What are the exception to law of demand?
 - Explain the determinants of individual and market demand.



R.E.D. Group of Schools

Revision Assignment - 4

Class: 11th

Ch. Name: Elasticity of Demand

Subject: Economics

Chapter No.: 4

For recapitulation & solving the assignment the students should refer to their Sandeep Garg book. (Ch-4)

Part-1

(Case Study Question/Activity based Question)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

Case Study- 1

Salt has no close substitute & moreover a household has to share a negligible part of his entire budget. Therefore, even inspite of increase in price of salt its demand will not be affected.

However, demand for a particular brand of toothpaste is comparatively more elastic as there are many brands of toothpaste available in the market, so the consumers can switch over to any other brand in case of hike in the price of a particular brand of toothpaste.

- Q.1 Which factors according to above passage are responsible for price elasticity of demand?
- Q.2 Is the demand for a luxury item elastic? Why?
- Q.3 Name some commodities, which have small number of substitutes.

Part-2

Subject Specific conceptual definitions & Application based Questions

- Q.4. Define the following terms:-
- Price Elasticity of demand
 - Cross elasticity of demand
 - Income elasticity of demand
- Q.5. Application based question:-
- Explain the concept of degrees of elasticity of demand with help of curves.
 - Explain the relationship between price elasticity of demand and total expenditure.

Part-3

Short Questions

- Q.6 Answer the following questions:-
- What are the factors affecting price elasticity of demand?
 - The demand for commodity 'A' rises by 20% due to fall in price by 72 from the original price of 8.
 - Calculate elasticity of demand by 'Percentage Method'.
 - Whether demand of 'A' is elastic or inelastic? Give reason for your answer.
 - What will be the shape of demand curve of A?
 - If new demand of commodity 'A' is 84 units, then calculate its original demand.
 - Determine the price elasticity by "Total Expenditure Method".
 - Whether price elasticity of demand calculated in (i) and (v) give the same answer?



R.E.D. Group of Schools

Summer Holidays Homework

Session: 2023-24

Subject: Mathematics

Class –11th

Text Book: NCERT Text Book

1. Syllabus Covered upto MAY END

- Chapter No.- 1..... Chapter Name:- Sets
- Chapter No.- 2..... Chapter Name:- Relations and Functions
- Chapter No.- 3..... Chapter Name:- Trigonometric Functions

2. List of all new concepts taught upto MAY END

- Concepts of a Sets
- Types of Sets, Operations on Sets
- Practical applications of Set Operations
- Cartesian product of Set, Types of Relations, Function as a special kind of relation
- Domain and Range of Function
- Measure of an angle
- Signs of trigonometric Functions, Trigonometric functions of allied angles
- Graph of a trigonometric Functions
- Transformation of a product into sum or difference

3. Formative Assessment based Homework:

- **Section-A**-Creative Project/ Model
- **Section-B**- Problem solving activities.
- **Section-C**- Mental Maths problems.
- **Section-D**- Lab practicals
- **Section-A-Creative Project/ Models**

| Topic | Roll .No |
|--|----------|
| 1. Set , Types and Operations | 1 to 8 |
| 2. A Relation and a Function | 9 to 16 |
| 3. Distinguish a Relation and a Function | 17 to 24 |
| 4. Formulas of trigonometric Functions | 25 to 32 |
| 5. Graphs of sin x, cos x and tan x | 33 to 40 |

Make a project files according to the given topics

○ Section-B- Problem solving activity.

Solve the following real life based problems.

○ Problem solving activity.

A class teacher Mamta Sharma of class XI write three sets A, B and C are such that

$A = \{1, 3, 5, 7, 9\}$, $B = \{2, 4, 6, 8\}$ and $C = \{2, 3, 5, 7, 11\}$.

Answer the following questions which are based on above sets.

(i) Find $A \cap B$.

- (a) $\{3, 5, 7\}$ (b) \emptyset (c) $\{1, 5, 7\}$ (d) $\{2, 5, 7\}$

(ii) Find $A \cap C$

- (a) $\{3, 5, 7\}$ (b) \emptyset (c) $\{1, 5, 7\}$ (d) $\{3, 4, 7\}$

(iii) Which of the following is correct for two sets A and B to be disjoint?

- (a) $A \cap B = \emptyset$ (b) $A \cap B \neq \emptyset$ (c) $A \cup B = \emptyset$ (d) $A \cup B \neq \emptyset$

(iv) Which of the following is correct for two sets A and C to be intersecting?

- (a) $A \cap C = \emptyset$ (b) $A \cap C \neq \emptyset$ (c) $A \cup C = \emptyset$ (d) $A \cup C \neq \emptyset$

(v) Write the $n[P(B)]$.

- (a) 8 (b) 4 (c) 16 (d) 12

o **Section-C- Activities related to Mental Maths.**

• **Mental Maths problems:**

Q1. Look at this series: 2, 1, $(1/2)$, $(1/4)$, ... What number should come next?

Q2. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?

Q3. Complete the series 1,6,13,22,33,..

Q4. Complete the Series 34,45,56,67.....

Q5. If the sum of n terms of an A.P. is $(pn + qn^2)$, where p and q are constants, find the common difference.

Q6. If E is the universal set and $A = B \cup C$, then the set $E - (E - (E - (E - (E - A))))$ is same as the set

Q7. Which one of the following is not a prime number?

- (a) 31 (b) 61 (c) 71 (d) 91

Q8. What least number must be added to 1056, so that the sum is completely divisible by 23 ?

- (a) 2 (b) 3 (c) 18 (d) 21

Q9. The sum of first five prime numbers is:

- (a) 11 (b) 18 (c) 26 (d) 28

Q10. The smallest 3 digit prime number is:

- (a) 101 (b) 103 (c) 109 (d) 113

➤ **Section-D-Lab Practicals .**

❖ Make the following lab activities in lab manual.

1. Set Operations Using Venn Diagrams
2. Distinguish a Relation and a Function
3. Graphs of $\sin x$, $\sin 2x$, $\sin x$ and $\sin x/2$

➤ **Section-E- Revision assignments (Chapter wise assignments).**



R.E.D. Group of Schools

Revision Assignment -1

Class: 11th

Ch. No.: Sets

Subject: Maths

Ch. Name: 1

For recapitulation & solving the assignment the students should refer to their NCERT text book of Maths

Part-1

Multiple choice Questions (only one option is correct)

- Which of the following is a Set?
 - The collection of all even integers.
 - The collection of most dangerous animals of the world.
 - The collection of rich persons in India.
 - The collection of best teachers of Mathematics in India
- Which of the following sets is a set-builder form of $\{14, 21, 28, 35, 42, \dots, 98\}$:
 - $\{x: x \text{ is a multiple of } 7, 7 < x < 90\}$
 - $\{x: x \text{ is a multiple of } 7\}$
 - $\{x: x \text{ is a multiple of } 7, 7 < x < 98\}$
 - $\{x: x \text{ is a multiple of } 7, 7 < x < 100\}$
- Which of the following sets is a roster form of $\{x: x \text{ is a positive integer and } x^2 < 40\}$
 - $\{0, 1, 2, 3, 4, 5, 6\}$
 - $\{1, 2, 3, 4, 5\}$
 - $\{1, 2, 3, 4, 5, 6, 7\}$
 - $\{1, 2, 3, 4, 5, 6\}$
- Which of the following sets is subset of $A = \{\phi, \{\phi\}, 1, 2, \{3, \phi\}, 5\}$:
 - $\{1, 3\}$
 - $\{2, 3\}$
 - $\{3, \phi\}$
 - $\{\{3, \phi\}\}$
- If $A = \{(a, b), c\}$ then power set $P(A)$ is:
 - $\{\{a\}, \{b\}, \{c\}\}$
 - $\{\{a, b\}, \{b, c\}, \{c, a\}, \{a\}, \{b\}, \{c\}\}$
 - $\{\phi, \{a\}, \{b\}, \{c\}, \{a, b\}, \{b, c\}, \{c, a\}, \{(a, b), c\}\}$
 - $\{\phi, \{(a, b)\}, \{c\}, \{(a, b), c\}\}$

Part – II

(Integer Type Questions)

- If $A = \{1, 2, 3, 4, 5\}$. Then what is the cardinal number of Set A.
- If $A = \{a, b, c\}$. Then write the number of subsets of A.
- If $A = \{1, 2, 3, 4\}$. Then how many elements are there in the $P(A)$.
- “Collection of good Hockey players of India”. Is it a set or not?

Part – III

(Application Based Questions)

Answer the following questions by applying acquired knowledge, facts, techniques and rules

10. Write down all the subsets of the following set:(i) {9}(ii) {1, 2, 3}.
11. Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$; $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ and $C = \{3, 4, 5, 6\}$.
Find: (i) A' (ii) $(A \cup B)'$
12. Let U be the set of all triangle in a plane. If A is the set of all triangles with at least one angle different from 60° , then find A' ?

Part – IV

(Reason and Numerical Based Questions)

13. Are the following pair of sets equal? Give reasons.
 $A = \{2, 3\}$, $B = \{x : x \text{ is solution of } x^2 + 5x + 6 = 0\}$
14. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{2, 4, 6, 8\}$ and $B = \{2, 3, 5, 7\}$. Verify that
(i) $(A \cup B)' = A' \cap B'$ (ii) $(A \cap B)' = A' \cup B'$

Part – V

(Case Study Based Questions)

15. The school organised a farewell party of 100 students and school management decided three types of drinks distributes in party are Milk (M), Coffee(C) and Tea (T). He reported the following 10 students had all the three drinks M, C, T, 20 had M and C, 30 had C and T; 25 had M and T; 12 had M only; 5 had C only; 8 had T only.
- (i) The number of students who did not take any drinks is
(a) 20 (b) 30 (c) 10 (d) 25
- (ii) The number of students who prefer Milk is
(a) 47 (b) 45 (c) 53 (d) 50
- (iii) The number of students who prefer Coffee is
(a) 47 (b) 53 (c) 45 (d) 50
- (iv) The number of students who prefer Tea is
(a) 51 (b) 53 (c) 50 (d) 47

Part – VI

(Analysis Based Question)

Answer the following question by organizing and integrating the information.

16. A survey shows that 63% of Indians likes cheese whereas 76% likes apples. If $x\%$ of Indians like both cheese and apples and each Indian like at least one of these, find the value of x .

Learning Homework: Learn all definitions & formulas from Page No. 1 to 29 of NCERT Book.

Pre-Reading Homework: Read Page no. 1 to 29 of NCERT Book and understand their meaning



R.E.D. Group of Schools Revision Assignment -2

Class: 11th
Ch. No.: Relation and Function

Subject: Maths
Ch. Name: 2

Part-1

Multiple choice Questions (only one option is correct)

- If $3x + 8 > 2$, x is an integer, then solution set is
(a) $\{x : x > -2, x \text{ is an integer}\}$ (b) $(-2, \infty)$
(c) $\{-2, -1, 0, 1, 2, \dots\}$ (d) \mathbb{Z} , the set of integer
- If $A = \{1, 2, 4\}$, $B = \{2, 4, 5\}$, $C = \{2, 5\}$, then $(A - B) \times (B - C)$ is
(a) $\{(1, 2), (1, 5), (2, 5)\}$ (b) $\{(1, 4)\}$
(c) $(1, 4)$ (d) none of these
- If R is a relation on the set $A = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ given by $x R y \Leftrightarrow y = 3x$, then $R =$
(a) $\{(3, 1), (6, 2), (8, 2), (9, 3)\}$ (b) $\{(3, 1), (6, 2), (9, 3)\}$
(c) $\{(3, 1), (2, 6), (3, 9)\}$ (d) none of these
- Let $A = \{1, 2, 3\}$, $B = \{1, 3, 5\}$. If relation R from A to B is given by $R = \{(1, 3), (2, 5), (3, 3)\}$. Then R^{-1} is
(a) $\{(3, 3), (3, 1), (5, 2)\}$ (b) $\{(1, 3), (2, 5), (3, 3)\}$
(c) $\{(1, 3), (5, 2)\}$ (d) none of these
- If $A = \{1, 2, 3\}$, $B = \{1, 4, 6, 9\}$ and R is a relation from A to B defined by x is greater than y . The range of R is
(a) $\{1, 4, 6, 9\}$ (b) $\{4, 6, 9\}$ (c) $\{1\}$ (d) none of these

Part - II

(Integer Type Questions)

- How many elements lie in the empty relation?
- If $n(A) = 3$ and $n(B) = 2$ then find the total number of relations between set A and set B .
- If $\left(\frac{x}{3} + 1, y - \frac{2}{3}\right) = \left(\frac{5}{3}, \frac{1}{3}\right)$, find the values of x and y .
- If $A = \{1, 2, 3\}$, $B = \{4, 5\}$. Show that $A \times B \neq B \times A$.

Part - III

(Application Based Questions)

Answer the following questions by applying acquired knowledge, facts, techniques and rules

- The cartesian product $A \times A$ has 9 elements among which some elements are found $(-1, 0)$ and $(0, 1)$. Find the set A and remaining elements of $A \times A$.
- Let $A = \{x, y, z\}$ and $B = \{1, 2\}$. Find the number of relations from A into B .
- Find the domain for which the function $f(x) = 2x^2 - 1$ and $g(x) = 1 - 3x$ are equal.

Part – IV

(Reason and Numerical Based Questions)

13. If R is the relation "is greater than" from $A = \{1, 2, 3, 4, 6\}$ and $B = \{1, 3, 4\}$, write R as a set of ordered pairs.

Also find inverse of R

14. Find the domain of the function $f(x) = \sqrt{9 - x^2}$

Part – V

(Case Study Based Questions)

15. Gauri Shankar and Ravi are the students of class XI of RED School. Their mathematics teacher told them to collect the name of 5 students of class 9 and 4 students of class 8 for a project. They collected the names and write them in the form of sets as following:

$A = \{\text{Hari, Shyam, Madhuri, Ritika, Reena}\}$

$B = \{\text{Abhipsa, Satabrata, Sai, Parteek}\}$

Since discussion of relation and function was going on in their classes, they decided to explore these sets for various type of relation and functions.

Using the information answer the following

(i) How many elements exist in set A and set B

(a) 5, 4

(b) 4, 5

(c) 5, 6

(d) 4, 6

(ii) How many elements lie in $n(A \times B)$

(a) 25

(b) 16

(c) 20

(d) 15

(iii) How many relation exist from set A to set B

(a) 20

(b) 2^{20}

(c) 5^4

(d) 4^5

(iv) How many function exist from set A to set B

(a) 1024

(b) 625

(c) 2^{20}

(d) 20^2

Part – VI

(Analysis Based Question)

Answer the following question by organizing and integrating the information.

16. Let $A = \{1, 2, 3, 4\}$, $B = \{1, 5, 9, 11, 15, 16\}$ and $f = \{(1, 5), (2, 9), (3, 1), (4, 5), (2, 11)\}$. Are the following true ?

(i) f is relation from A to B

(ii) f is a function from A to B.

Learning Homework: Learn all definitions & formulas from Page No. 30 to 48 of NCERT Book.

Pre-Reading Homework: Read Page no.30. to 48 of NCERT Book and understand their meaning



R.E.D. Group of Schools

Revision Assignment -3

Class: 11th

Ch. No.: Trigonometric Functions

Subject: Maths

Ch. Name: 3

Part-1

Multiple choice Questions (only one option is correct)

- In a triangle ABC, the sides are 6 cm, 10 cm and 14 cm the obtuse angle of triangle will be:
(a) 120° (b) 110° (c) 130° (d) 150°
- Two sides of a triangle are $\sqrt{3}-1$ and $\sqrt{3}+1$ units and their included angle is 60° then third side will be :
(a) 7 (b) 6 (c) $\sqrt{6}$ (d) 8
- In a triangle ABC, $\angle B = 30^{\circ}$, $\angle C = 60^{\circ}$, $a = 6\text{ cm}$ then length of side 'b' will be :
(a) 8 (b) 5 (c) 4 (d) 3
- Solution of equation $\cos \theta = \cos \alpha$ is
(a) $\theta = n\pi \pm \alpha$ (b) $\theta = n\pi + \alpha$ (c) $\theta = 2n\pi \pm \alpha$ (d) none of these
- Solution of $\sin \theta = \sin \alpha$
(a) $\theta = n\pi + \alpha$ (b) $\theta = 2n\pi \pm \alpha$ (c) $\theta = n\pi \pm \alpha$ (d) $\theta = n\pi + (-1)^n \alpha$

Part – II

(Integer Type Questions)

- What is the maximum and minimum value of $\sin x$.
- Find the value of $\cos(-1710)$.
- Which trigonometric function are positive in the third quadrant.
- Write the formula for $\tan(A+B)$.

Part – III

(Application Based Questions)

Answer the following questions by applying acquired knowledge, facts, techniques and rules

- Prove that $\tan^2 \theta - \sin^2 \theta = \tan^2 \theta \sin^2 \theta$.
- Prove that $\sec^4 \theta - \sec^2 \theta = \tan^4 \theta + \tan^2 \theta$
- If $\cot x = \frac{-5}{12}$, x lies in second quadrant, find the values of other five trigonometric function.

Part – IV

(Reason and Numerical Based Questions)

13. Prove that : $\sin^2 6x - \sin^2 4x = \sin 2x \sin 10x$.

14. Prove that : $\frac{\sin x - \sin y}{\cos x + \cos y} = \tan \frac{x - y}{2}$.

Part – V

(Case Study Based Questions)

15. If $\sin A = \frac{3}{5}$ and $\cos B = \frac{-5}{13}$; $0 < A < \frac{\pi}{2}$ and $\pi < B < \frac{3\pi}{2}$.

(i) Find the value of $\cos A + \sin B$

(a) $-\frac{16}{65}$

(b) $-\frac{8}{65}$

(c) $\frac{8}{65}$

(d) $\frac{12}{65}$

(ii) Find the value of $\sin(A + B)$

(a) $-\frac{16}{65}$

(b) $\frac{-63}{65}$

(c) $\frac{-65}{33}$

(d) $\frac{33}{65}$

(iii) Find the value of $\cos(A + B)$

(a) $\frac{12}{65}$

(b) $\frac{-12}{65}$

(c) $\frac{-16}{65}$

(d) $\frac{16}{65}$

(iv) Find the value of $\sin 2A$

(i) $\frac{14}{25}$

(ii) $\frac{24}{25}$

(iii) $\frac{-14}{25}$

(iv) $\frac{-24}{25}$

Part – VI

(Analysis Based Question)

Answer the following question by organizing and integrating the information.

16. Prove that : $\sin(n+1)x \sin(n+2)x + \cos(n+1)x \cos(n+2)x = \cos x$.

Learning Homework: Learn all definitions & formulas from Page No. 49 to 85 of NCERT Book.

Pre-Reading Homework: Read Page no. 49 to 85 of NCERT Book and understand their meaning