

Catalog

12.eng.....	1
12.hindi.....	2
12.maths.....	3
12.app maths.....	7
12.Computer.....	8
12.phy.....	12
12.bio.....	13
12.acc.....	14
12.bst.....	17

DAV KAPILDEV PUBLIC SCHOOL, KADRU, RANCHI

ENGLISH PROJECT WORK

Class XII

Attempt Any One Question.

1. You visited an old-age home and conducted the interview of a few of the people residing there. Draft the interview.
2. Draft a report on Global Warming mentioning the reasons for global warming, present condition of Earth and ways to mitigate future dangers.
3. You conducted an interview of a famous personality. Write an article on your experience conducting the interview and preparations made by you to conduct the same.

कक्षा-12वीं

विषय-हिंदी

अप्रत्याशित लेखन

निम्नलिखित विषयों पर 200 से 300 शब्दों में लेख लिखिए-

क.इम्तिहान के दिन

ख.मेरा प्रिय टाइमपास

ग.एक कामकाजी औरत की शाम

परियोजना कार्य-2(ACTIVITY)

सूर्यकांत त्रिपाठी 'निराला'

महादेवी वर्मा

जीवन परिचय और उनकी रचनाएं (सचित्र)

DAV KAPILDEV PUBLIC SCHOOL

KADRU RANCHI HOLIDAY

HOMEWORK

CLASS XII – MATHEMATICS

Chapter 8: Application of Integrals

- Q1.** Find the area of the region bounded by the ellipse $(x^2)/16 + (y^2)/9 = 1$ using integration. (CBSE 2018, 2023)
- Q2.** Find the area of the region in the first quadrant enclosed by the x-axis, the line $y = x$, and the circle $x^2 + y^2 = 32$. (CBSE 2016, 2020)
- Q3.** Using integration, find the area of the region bounded by the parabola $y^2 = 4x$ and the line $x = 3$. (CBSE 2017)
- Q4.** Find the area of the smaller region bounded by the ellipse $(x^2)/9 + (y^2)/4 = 1$ and the straight line $x/3 + y/2 = 1$. (CBSE 2015, 2019)
- Q5.** Using integration, find the area of the region bounded by the triangle whose vertices are A(1, 0), B(2, 2), and C(3, 1). (CBSE 2016, 2022)
- Q6.** Find the area of the region bounded by the parabola $y = x^2$ and the line $y = |x|$. (CBSE 2018, 2020)
- Q7.** Using the method of integration, find the area of the region bounded by the lines $2x + y = 4$, $3x - 2y = 6$, and $x - 3y + 5 = 0$. (CBSE 2017)
- Q8.** Find the area bounded by the curve $y = \cos x$ between $x = 0$ and $x = 2\pi$. (CBSE 2019, 2024)
- Q9.** Find the area of the region bounded by the curves $y = x^2 + 2$, $y = x$, $x = 0$, and $x = 3$. (CBSE 2015, 2023)
- Q10.** Using integration, find the area of the region enclosed between the two parabolas $y^2 = 4ax$ and $x^2 = 4ay$. (CBSE 2016, 2021)
- Q11.** Find the area of the region bounded by the line $y = 3x + 2$, the x-axis, and the ordinates $x = -1$ and $x = 2$. (CBSE 2018)

Chapter 9: Differential Equations

- Q12.** Find the sum of the order and degree of the differential equation: $\frac{d}{dx} \left[\left(\frac{dy}{dx} \right)^3 \right] = 0$. (CBSE 2020)
- Q13.** Find the general solution of the differential equation: $\frac{dy}{dx} = \frac{(1 + y^2)}{(1 + x^2)}$. (CBSE 2015, 2018)
- Q14.** Solve the differential equation: $x \cos(y/x) \left(\frac{dy}{dx} \right) = y \cos(y/x) + x$. (CBSE 2016, 2023)
- Q15.** Find the particular solution of the differential equation: $\frac{dy}{dx} + y \cot x = 4x \operatorname{cosec} x$, given that $y = 0$ when $x = \pi/2$. (CBSE 2017, 2022)
- Q16.** Solve the homogeneous differential equation: $(x^2 - y^2) dx + 2xy dy = 0$, given that $y = 1$ when $x = 1$. (CBSE 2015, 2019)
- Q17.** Find the particular solution of the differential equation: $(1 + e^{(2x)}) dy + (1 + y^2) e^x dx = 0$, given that $y = 1$ when $x = 0$. (CBSE 2016, 2024)
- Q18.** Find the general solution of the differential equation: $x \left(\frac{dy}{dx} \right) - y + x \sin(y/x) = 0$. (CBSE 2018, 2020)
- Q19.** Find the integrating factor of the differential equation: $(1 - x^2) \left(\frac{dy}{dx} \right) - xy = 1$. (CBSE 2017, 2021)
- Q20.** Solve the differential equation: $(x^2 + 1) \left(\frac{dy}{dx} \right) + 2xy = \sqrt{x^2 + 4}$. (CBSE 2019, 2023)
- Q21.** Find the particular solution of the differential equation: $\frac{dy}{dx} = y \tan x$, given that $y = 1$ when $x = 0$. (CBSE 2015, 2022)
- Q22.** Solve the differential equation: $x dy - y dx = \sqrt{x^2 + y^2} dx$. (CBSE 2016, 2018)

Chapter 10: Vector Algebra

- Q23.** Find the scalar and vector projections of the vector $a = i + 3j + 7k$ on the vector $b = 7i - j + 8k$. (CBSE 2015, 2018)
- Q24.** If a , b , and c are unit vectors such that $a + b + c = 0$, find the value of $(a \cdot b + b \cdot c + c \cdot a)$. (CBSE 2016, 2022)
- Q25.** Find a unit vector perpendicular to both the vectors $a = 2i + j + 3k$ and $b = i - j + 2k$. (CBSE 2017, 2020)
- Q26.** Show that the vectors $a = 2i - 3j + 4k$ and $b = -4i + 6j - 8k$ are collinear. (CBSE 2019)
- Q27.** If the vertices of a triangle are $A(1, 2, 3)$, $B(-1, 0, 0)$, and $C(0, 1, 2)$, find the area of triangle ABC using vectors. (CBSE 2016, 2023)

Q28. Find the area of a parallelogram whose diagonals are represented by the vectors $d_1 = 3i + j - 2k$ and $d_2 = i - 3j + 4k$. (CBSE 2015, 2021)

Q29. If $|a| = 3$, $|b| = 4$, and $a \cdot b = 6$, find the value of $|a \times b|$. (CBSE 2018, 2024)

Q30. Show that the four points with position vectors $4i + 8j + 12k$, $2i + 4j + 6k$, $3i + 5j + 4k$, and $5i + 8j + 5k$ are coplanar. (CBSE 2017, 2022)

Q31. Let $a = i + 4j + 2k$, $b = 3i - 2j + 7k$, and $c = 2i - j + 4k$. Find a vector d which is perpendicular to both a and b , and $c \cdot d = 15$. (CBSE 2016, 2020)

Q32. For any two vectors a and b , prove that $|a + b| \leq |a| + |b|$ (Triangle Inequality). (CBSE 2015, 2019)

Q33. If a vector makes angles α , β , γ with the x , y , and z axes respectively, prove that $\sin^2(\alpha) + \sin^2(\beta) + \sin^2(\gamma) = 2$. (CBSE 2018, 2023)

Chapter 11: Three Dimensional Geometry

Q34. Find the vector and Cartesian equations of the line passing through the point $(2, -1, 4)$ and parallel to the vector $i + 2j - k$. (CBSE 2015, 2018)

Q35. Find the shortest distance between the lines $l_1: r = (i + 2j + k) + \lambda(i - j + k)$ and $l_2: r = (2i - j - k) + \mu(2i + j + 2k)$. (CBSE 2016, 2022)

Q36. Find the shortest distance between the parallel lines $l_1: r = (i + 2j - 4k) + \lambda(2i + 3j + 6k)$ and $l_2: r = (3i + 3j - 5k) + \mu(2i + 3j + 6k)$. (CBSE 2017, 2020)

Q37. Find the coordinates of the foot of the perpendicular drawn from the point $(1, 2, 3)$ to the line $(x - 6)/3 = (y - 7)/2 = (z - 7)/-2$. (CBSE 2016, 2023)

Q38. Determine if the lines $(x - 5)/7 = (y + 2)/-5 = z/1$ and $x/1 = y/2 = z/3$ are perpendicular to each other. (CBSE 2019)

Q39. Find the vector equation of the line passing through the points $(3, -2, -5)$ and $(3, -2, 6)$. (CBSE 2015, 2021)

Q40. Find the coordinates of the point where the line $(x - 2)/3 = (y + 1)/4 = (z - 2)/12$ intersects the plane $x - y + z = 5$. (CBSE 2018, 2024)

Q41. Find the image of the point $(1, 6, 3)$ in the line $(x)/1 = (y - 1)/2 = (z - 2)/3$. (CBSE 2017, 2022)

Q42. Find the coordinates of the point where the line joining the points $A(3, 4, 1)$ and $B(5, 1, 6)$ crosses the XY -plane. (CBSE 2016, 2020)

Q43. The Cartesian equations of a line are $3x + 1 = 6y - 2 = 1 - z$. Find its direction ratios and write its equation in vector form. (CBSE 2015, 2019)

Q44. Find the angle between the lines $r = (2i - 5j + k) + \lambda(3i + 2j + 6k)$ and $r = (7i - 6k) + \mu(i + 2j + 2k)$.
(CBSE 2018, 2023)

HOLIDAY HOMEWORK
DAV KAPILDEV PUBLIC SCHOOL KADRU RANCHI
CLASS XII – APPLIED MATHEMATICS

1. Probability

Q1. An instructor has a question bank consisting of 300 easy True/False questions, 200 difficult True/False questions, 500 easy multiple-choice questions, and 400 difficult multiple-choice questions. If a question is selected at random from the question bank, what is the probability that it will be an easy question given that it is a multiple-choice question?

Q2. An insurance company insured 2000 scooter drivers, 4000 car drivers, and 6000 truck drivers. The probability of an accident is 0.01, 0.03, and 0.15 respectively. One of the insured persons meets with an accident. What is the probability that he is a scooter driver?

Q3. Two cards are drawn successively with replacement from a well-shuffled pack of 52 cards. Find the probability distribution of the number of aces. Calculate the mean of the distribution.

Q4. If 2% of the items manufactured by a company are defective, find the probability that a box containing 100 items contains exactly 3 defective items. (Given $e^{-2} = 0.1353$)

2. Differential Equations

Q5. Find the order and degree (if defined) of the differential equation: $(d^2y/dx^3)^3 + (dy/dx)^2 + \sin(dy/dx) + 1 = 0$

Q6. Solve the differential equation: $dy/dx = (1 + x^2)(1 + y^2)$

Q7. Find the general solution of the differential equation: $x(dy/dx) + 2y = x^2$ ($x \neq 0$)

Q8. The population of a town grows at a rate proportional to the population present at any time t . If the population doubles in 30 years, in how many years will it triple?

3. Application of Integrals

Q9. Find the area of the region bounded by the parabola $y^2 = 4x$ and the line $x = 3$.

Q10. Find the area of the region bounded by the curves $y = x^2$ and $y = x$.

Q11. The demand function for a commodity is $p = 25 - x - x^2$. Find the consumer's surplus when the market demand is $x_0 = 3$.

Q12. The marginal cost of producing x units of a product is given by $MC = 3x^2 - 2x + 50$. If the fixed cost is ₹200, find the total cost function and the cost of producing 10 units.

Class XII-computer

Topic File Handling

1. Text File - Reading and Writing

Write a Python program to create a text file story.txt and write the line "Python is a powerful language". Then read the file and display its content on the screen. Also, count and display the total number of words in the file.

2. Text File - Counting

Write a program to read a text file notes.txt and count and display:

- a) Total number of lines
- b) Total number of words starting with the letter 'A' or 'a'
- c) Total number of vowels present in the file.

3. Text File - Copying Data

Write a program that reads a text file source.txt and writes all lines that do NOT start with the letter 'T' into another file destination.txt.

4. Binary File - Creating and Reading

Write a program to create a binary file students.dat and store details of 5 students as [Roll No, Name, Marks] using pickle module. Then read the file and display the records of students who scored more than 75 marks.

5. Binary File - Searching

A binary file employee.dat contains records of employees in the form of a dictionary {'id':, 'name':, 'salary':}. Write a program to search and display the record of an employee whose ID is entered by the user. If not found, display a suitable message.

6. Binary File - Updating

Write a program to update the salary of an employee in a binary file employee.dat. The user enters the ID and the new salary, and the program updates the record in the file.

7. Binary File - Deleting

Write a program to delete a record from a binary file books.dat where the book code is entered by the user. The program should copy all other records to a temporary file and then rename it.

8. CSV File - Writing

Write a program to create a CSV file result.csv and write the following data:

Roll No, Name, Marks

101, Aarav, 88

102, Priya, 92

103, Kunal, 76

Use csv.writer for this purpose.

9. CSV File - Reading and Filtering

Write a program to read a CSV file marks.csv containing Roll No, Name, Marks. Display only those records where Marks are greater than 80. Also, display the total number of such students.

10. CSV File - Combined Concept

A CSV file student.csv has columns: Admission No, Name, Class, Percentage. Write a program to:

- a) Read and display all records
- b) Add a new student record entered by the user
- c) Display the record of the student with the highest percentage

Class XII

Topic MySQL

1. Table Creation and Constraints

Consider the table STUDENT with columns: AdmNo, Name, Class, Section, Marks. Write SQL commands to:

- a) Create the table with AdmNo as Primary Key
- b) Add a new column Address of type VARCHAR(50)
- c) Add a constraint that Marks should be greater than 0

2. DDL Commands

Explain the difference between DROP TABLE and TRUNCATE TABLE with a suitable example. Also, explain how ALTER TABLE is used to modify the structure of a table.

3. Insertion and Updation

Create a table EMPLOYEE (EmpID, EmpName, Dept, Salary, JoinDate). Write SQL queries to:

- a) Insert 5 records into the table
- b) Increase the Salary of all employees in 'IT' department by 10%
- c) Update the Dept of employee with EmpID = 102 to 'HR'

4. SELECT with Conditions

Consider a table BOOKS (BookID, Title, Author, Price, Publisher). Write SQL queries to display:

- a) All books whose price is between 200 and 500
- b) Books whose Author name starts with 'R'
- c) Books sorted by Price in descending order

5. Aggregate Functions

Given a table SALES (SaleID, Product, Quantity, Price, SaleDate), write SQL queries to find:

- a) Total number of products sold
- b) Maximum and Minimum Price of products
- c) Average Price of all products
- d) Sum of Quantity for product 'Laptop'

6. GROUP BY and HAVING

Consider a table STUDENT (RollNo, Name, Class, Marks). Write SQL queries to:

- a) Display Class-wise average Marks
- b) Display Classes where average Marks is greater than 70
- c) Display total number of students in each Class

7. Joins

Consider two tables: STUDENT (RollNo, Name, Class) and MARKS (RollNo, Subject, Marks). Write SQL queries using JOIN to display Name, Subject and Marks of all students. Also, explain the difference between INNER JOIN and LEFT JOIN.

8. Functions and Clauses

Explain the use of the following MySQL functions with examples:

- a) UPPER() and LOWER()
- b) LENGTH()
- c) NOW() and CURDATE()
- d) ROUND()

9. DDL vs DML

Differentiate between DDL and DML commands in MySQL. Write two examples of each. Also, explain why DELETE is a DML command while TRUNCATE is a DDL command.

10. Practical Query Writing

A table HOSPITAL (PatientID, PatientName, Age, Doctor, Disease, Fees) exists in a database. Write SQL queries to:

- a) Display patients whose Disease is 'Fever' and Age > 40
- b) Display patients sorted by Fees in ascending order
- c) Delete records of patients whose Fees is less than 100
- d) Display the name of doctors and the number of patients treated by each doctor

DAV KAPILDEV PUBLIC SCHOOL ,KADRU RANCHI
HOLIDAY HOMEWORK ASSIGNMENT
CLASS XII | PHYSICS

Chapter: Ray Optics and Optical Instruments

Instructions: Solve all questions neatly in your physics assignment notebook. Show clear ray diagrams wherever asked and write down formulas used in numericals .

Q1. Define Total Internal Reflection (TIR). State the two essential conditions for it to occur, and explain how it is utilized in the working of optical fibres.

Q2. Derive the relation between the refractive index (n), angle of prism (A), and the angle of minimum deviation (D_m) for a thin glass prism.

Q3. Derive the Lens Maker's Formula for a double convex lens, listing all the standard assumptions made during the derivation.

Q4. Draw a neat, labeled ray diagram showing the image formation in a Compound Microscope when the final image is formed at the least distance of distinct vision (D). Write the expression for its total magnifying power.

Q5. Draw a ray diagram for an Astronomical Telescope adjusted for normal adjustment. Explain why a reflecting type telescope is preferred over a refracting type telescope (give two solid reasons).

Q6. A convex lens of focal length 20 cm in air is immersed completely in water. Calculate the new focal length of the lens. (Take the refractive index of glass as 1.5 and water as 1.33).

Q7. An equiconvex lens of focal length ' f ' is cut vertically into two identical halves along its principal axis. What will be the focal length of each half? Justify your answer theoretically.

Q8. A ray of light passes through an equilateral glass prism such that the angle of incidence is equal to the angle of emergence. If each of these angles is equal to $3/4$ th of the angle of the prism, calculate the angle of deviation.

Q9. An astronomical telescope having an magnifying power of 8 consists of two thin lenses separated by a distance of 45 cm in normal adjustment. Find the focal lengths of both the objective lens and the eyepiece lens.

Q10. An object is placed at a distance of 15 cm from a convex lens of focal length 10 cm. Another concave lens of focal length 20 cm is placed coaxially 10 cm behind the convex lens. Find the position and nature of the final image formed by this combination.

Holiday Homework

Subject -Biology

Class-12

- 1.Revision of unit Reproduction in plants Human beings and Reproductive health.
2. Revision of Unit Genetics- Mendelian inheritance, Molecular basis of inheritance and evolution.
3. years board pattern questions download from CBSE site and solve in H.W. copy related to above chapters.
- 4 Submit H. W. Copy after opening of the school.

DURGA PUJA HOLIDAY HOMEWORK

CLASS XII – ACCOUNTANCY

Session: 2026–27

Practical Questions from D.K. Goel

Do the following questions:

Question Nos.: 1, 3, 4, 6, 7, 9, 10, 12, 13, 15, 17, 19, 21, 24, 26 and 27.

Question Paper / Study Material

The attached question paper on Issue of Debentures is included in the following pages.



Chapter Test

Multiple Choice Questions

- Q 1. A Ltd. issued 1,000, 10% debentures of ₹ 100 each at a premium of 5%. What will be the total amount of interest for one year?
- ₹ 10,500
 - ₹ 10,000
 - ₹ 5,250
 - ₹ 5,000
- Q 2. When debentures are issued at discount, then discount is written-off:
- after debentures are redeemed
 - in the year when debentures are issued
 - during the life of debentures
 - None of the above
- Q 3. William Pens Ltd. issued 10,000, 7% Debentures of ₹ 100 each at a discount of ₹ 4. It has a balance in securities premium reserve of ₹ 25,000. It will write-off discount on issue of debentures:
- ₹ 40,000 from Securities Premium Reserve.
 - ₹ 40,000 from Statement of Profit and Loss.
 - ₹ 25,000 from Securities Premium Reserve and ₹ 15,000 from Statement of Profit and Loss (Finance Cost).
 - ₹ 15,000 from Securities Premium Reserve and ₹ 25,000 from Statement of Profit and Loss (Finance Cost).
- Q 4. Discount on issue of debentures is restricted to:
- 10%
 - 20%
 - 25%
 - None of these

Assertion and Reason Type Questions

Directions (Q. Nos. 5-6): Each of the following questions consists of two statements, one is Assertion (A) and the other is Reason (R). Give answer:

- Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
 - Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
 - Assertion (A) is true, but Reason (R) is false.
 - Assertion (A) is false, but Reason (R) is true.
- Q 5. Assertion (A): Discount on issue of debentures is shown under the head 'other current assets' in balance sheet.
Reason (R): Discount on issue of debentures has to be written-off in the year, such debentures are issued.

- Q 6. Assertion (A): The finance raised through debentures are known as long-term debts.
Reason (R): Usually debentures are redeemable after 12 months after their issue. The period may be 5 to 10 years.

Case Study Based Question

- Q 7. Read the following hypothetical text and answer the given questions:

X Ltd. issued 10,000, 8% debentures of ₹ 100 each at a premium of 10% and redeemable at 10% premium on 1.01.2019. It purchased sundry assets of the value of ₹ 2,50,000 and took over the liabilities of ₹ 60,000 and issued 8% debentures at a discount of 5% to the vendor. On the same date, it took loan from the bank for ₹ 1,00,000 and issued 8% debentures as Collateral Security. X Ltd. prepares its final account on 31st March every year.

- What journal entry will be passed for the issue of debentures on 1.01.2019?
- What are the total amount of purchase consideration?
- Show the debentures issue as Collateral Securities in the Balance Sheet.
- What is the number of debentures issued to vendors in purchase consideration?

Very Short Answer Type Questions

- Q 8. Give the meaning of debenture.
- Q 9. Give the meaning of a bond.
- Q 10. When does a company create debenture redemption reserve?
- Q 11. Name the account to which the balance of debenture redemption reserve is transferred after all the debentures have been redeemed.
- Q 12. A Ltd. issued 1,000, 8% debentures of ₹ 100 each at a discount of 10%. If securities premium reserves stands ₹ 7,000. Pass the journal entry of writing-off discount on issue of debentures.

Short Answer Type Questions

- Q 13. 120, 8% debentures of ₹ 1,000 each are issued at 5% discount. Balance in securities premium reserve is ₹ 10,000.

Q 14. Fill in the blanks in the following case:

Journal Entries

Date	Particulars	L.F.	Amt. (₹)	Amt. (₹)
	 Dr.			
	To			
	(Being application money received on 2,000, 12% debentures of ₹ 100 each issued at a premium of 10% and redeemable at a premium of 10%)			
	 Dr.			
	 Dr.			
	To			
	To			
	To			
	(.....)			

Q 15. Asha Limited purchased a machinery for ₹ 22,00,000. Purchase price was paid by 6% debentures. Debentures of ₹ 20,00,000 were issued at a premium of 10% for the purpose. Record the necessary journal entries.

Q 16. Prakash Ltd. offered 2,000, 8% debenture of ₹ 500 each on 30th June, 2021 at a premium of 10% payable as ₹ 200 on application (including premium) and balance on allotment, redeemable at par after 8 years but application are received for 3,000 debentures and the allotment is made on pro-rata basis. All the money due

on application and allotment was received. Record the necessary entries regarding issue of debentures.

Long Answer Type Question

Q 17. A listed company issues the following debentures:

- 1,000, 12% debentures of ₹ 100 each at par but redeemable at premium of 5% after 5 years.
- 1,000, 12% debentures of ₹ 100 each at a discount of 10% but redeemable at par after 5 years.
- 5,000, 12% debentures of ₹ 100 each at a premium of 5% but redeemable at par after 5 years.
- 100, 12% debentures of ₹ 1,00 each of a collateral security to a bank which has advanced a loan of ₹ 1,000 each issued to a supplier of machinery costing ₹ 95,000. The debentures are repayable after 5 years.
- 300, 12% debentures of ₹ 100 each as a collateral security to a bank which has advanced a loan of ₹ 25,000 to the company for a period of 5 years.

Pass the journal entries to record the issue of debentures.



Chapter Test

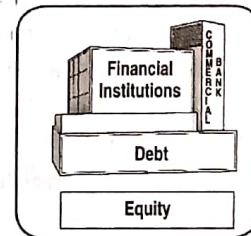
Multiple Choice Questions

Q1. 'Tangy Beverages Ltd.' was known for its popular tangy fruit drinks. It had recently introduced a new range of fruit drinks that became an instant hit among consumers and led to a significant increase in the company's profits. As a result, the Board of Directors wanted to declare a higher dividend for the year. The Chief Finance Officer suggested that they should evaluate the impact of dividend on the share price of previous years before taking a decision. An analysis was done, which showed how the company's share price had risen in previous years whenever the dividend was increased. On the other hand, even a small decrease in dividend had led to a noticeable dip in the share price.

Which of the following factors affecting dividend decision was suggested by the Chief Finance Officer to the Board of Directors in the above case?

- a. Access to capital market
- b. Stock market reaction
- c. Shareholders preference
- d. Cash flow position

Q 2. Which of the following financial decision illustrated in the given picture?



- a. Dividend decision
- b. Financial planning
- c. Financing decision
- d. Investment decision

Q 3. A position when a company is unable to meet its fixed financial charges like interest payment, dividend on preference shares and repayment obligations is referred to as

- a. trading on equity
- b. financial risk
- c. business risk
- d. operating risk

Q 4. Statement I: The cost of debt is more than the cost of equity.

Statement II: Lenders risk is lower than the equity shareholders risk.

In the light of the given statements, choose the correct alternatives from the following:

- Statement I is correct and statement II is incorrect.
- Statement II is correct and statement I is incorrect.
- Both the statements are correct.
- Both the statements are incorrect.

Assertion and Reason Type Questions

Directions (Q. Nos. 5-6): There are two statements marked as Assertion (A) and Reason (R). Read the statements and choose the appropriate option from the options given below:

- Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
 - Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
 - Assertion (A) is true, but Reason (R) is false.
 - Assertion (A) is false, but Reason (R) is true.
- Q 5. Assertion (A):** Capital budgeting decisions are very crucial and must be taken with utmost care.
Reason (R): Investment decisions affect the earning capacity of firm over the long run and are irreversible except at a huge cost.
- Q 6. Assertion (A):** Availability of leasing facilities may reduce the funds required to be invested in fixed assets thereby reducing the fixed capital requirements.
Reason (R): When an asset is taken on lease, the firm pays lease rentals to use it and avoids to invest huge sums required to purchase it.

Case Study Based Questions

- Q 7. Read the extract given below and answer the questions on the basis of the same:**

Mac Ltd. is a company manufacturing textiles. It has a share capital of ₹65 lakh. In the previous year, its earning per share was ₹ 0.60. For diversification, the company requires additional capital of ₹ 40 lakh. The company raised funds by issuing 10% debentures for the same. During the year, the company earned profit of ₹ 8 lakh on capital employed. It paid tax @ 40%.

- (i) State whether the shareholders gained or lost, in respect of earning per share on diversification. Show your calculations clearly.

- (ii) State any three factors that favour the issue of debentures by the company as part of its capital structure.

Short Answer Type-I Questions

- Q 8.** State any three points of importance of financial planning.
- Q 9.** Explain three factors affecting dividend decision.

Short Answer Type-II Questions

- Q 10.** Name the decision taken by a financial manager which determines the overall cost of capital and the financial risk of the enterprise. Explain any two factors which affect this decision.
- Q 11.** The demand for take away food business is increasing day by day. People working in multi-national companies have to work till night very often and they are reluctant to cook food. Taking advantage of this opportunity, Amit and Bijoy started 'Langar', a take away food business. The food became famous because of its good quality and standards of hygiene followed by them.
- Over the years, the business became very profitable. They decided to expand the business by opening more branches in different cities. To ensure consistent food quality at all branches and to maintain the hygiene and quality they planned to import machines with advanced technology. The cost of each machine was ₹ 12 crores. They knew that this decision has to be taken very carefully, as it involves a huge cost and that the decision, once taken is irreversible.

- (i) Identify and states the financial decision discussed in the above para.
- (ii) Explain any two factors affecting the decision identified in (i) above.

Long Answer Type Questions

- Q 12.** Explain, in brief, any six factors that should be taken into consideration while determining the requirements of working capital for a business.
- Q 13.** You are the finance manager of a newly established manufacturing company. Explain any six factors that you will consider while determining the fixed capital requirement of a firm.