

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Model Question Paper 2syllabus Business Mathematics

D Kirk



Model Question Paper 2syllabus Business Mathematics:

This book delves into Model Question Paper 2syllabus Business Mathematics. Model Question Paper 2syllabus Business Mathematics is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Model Question Paper 2syllabus Business Mathematics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Model Question Paper 2syllabus Business Mathematics
 - Chapter 2: Essential Elements of Model Question Paper 2syllabus Business Mathematics
 - Chapter 3: Model Question Paper 2syllabus Business Mathematics in Everyday Life
 - Chapter 4: Model Question Paper 2syllabus Business Mathematics in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Model Question Paper 2syllabus Business Mathematics. The first chapter will explore what Model Question Paper 2syllabus Business Mathematics is, why Model Question Paper 2syllabus Business Mathematics is vital, and how to effectively learn about Model Question Paper 2syllabus Business Mathematics.
 3. In chapter 2, this book will delve into the foundational concepts of Model Question Paper 2syllabus Business Mathematics. This chapter will elucidate the essential principles that need to be understood to grasp Model Question Paper 2syllabus Business Mathematics in its entirety.
 4. In chapter 3, this book will examine the practical applications of Model Question Paper 2syllabus Business Mathematics in daily life. The third chapter will showcase real-world examples of how Model Question Paper 2syllabus Business Mathematics can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Model Question Paper 2syllabus Business Mathematics in specific contexts. The fourth chapter will explore how Model Question Paper 2syllabus Business Mathematics is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Model Question Paper 2syllabus Business Mathematics. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Model Question Paper 2syllabus Business Mathematics.

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web the digestive system is made up of key parts each of which has a different function food passes through most of these parts in a journey from the mouth to the anus the parts of the digestive

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web the process of digestion begins in the mouth with the intake of food figure 16 4 the teeth play an important role in masticating chewing or physically breaking food into smaller particles the enzymes present in saliva also begin to chemically break down food

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web food is digested in the stomach 2 the digestive system breaks down food 3 teeth break foods into small pieces what you learned 1 teeth carry out mechanical digestion 2 an enzyme in saliva breaks down starches into sugars 3 muscle contractions called peristalsis push food toward the stomach

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web begins the process of chemical digestion saliva secreted by salivary glands aids the mechanical and chemical process of digestion saliva is about 99 water and not only moistens food but cleanses the mouth dissolves food chemicals so they can be tasted and contains enzymes that start the chemical breakdown of starchy foods

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web the process by which the body breaks down food into small nutrient molecules absorption the process by which nutrient molecules pass through the wall of the digestive system into the blood

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web while some digestion occurs in the stomach the process actually begins in the mouth where chewing and salivary amylase act on the food the digestive system does not produce urine some people think that the digestive system has two outlets one for feces and one for urine

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web jan 17 2023 this mechanical and chemical breakdown encompasses the process of digestion to recap these two

processes mechanical digestion larger pieces of food get broken down into smaller pieces while being prepared for chemical digestion this process starts in the mouth and continues into the stomach

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web there are four steps in the digestion process figure 2 3 2 the first step is ingestion which is the collection of food into the digestive tract it may seem a simple process but ingestion involves smelling food thinking about food and the involuntary release of saliva in the mouth to prepare for food entry

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