

MATHEMATICS

General Instructions :

1. This Question paper contains - five sections A, B, C, D and E. Each section is compulsory. However, there are internal choices in some questions.
2. Section A has 18 MCQ's and 02 Assertion-Reason based questions of 1 mark each.
3. Section B has 5 Very Short Answer (VSA)-type questions of 2 marks each.
4. Section C has 6 Short Answer (SA)-type questions of 3 marks each.
5. Section D has 4 Long Answer (LA)-type questions of 5 marks each.
6. Section E has 3 source based/case based/passage based/integrated units of assessment of 4 marks each with sub-parts.

SECTION-A

1. If the matrix $A = \begin{bmatrix} 0 & a & -3 \\ 2 & 0 & -1 \\ b & 1 & 0 \end{bmatrix}$ is skew-symmetric, then the values of 'a' and 'b' are respectively:
 (A) 2 and 3 (B) 2 and -3 (C) -2 and 3 (D) -2 and -3
2. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 0 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 4 \\ 1 & 6 \end{bmatrix}$ then $(AB)^T$ equals :
 (A) $\begin{bmatrix} 5 & 9 \\ 4 & 3 \end{bmatrix}$ (B) $\begin{bmatrix} 5 & 9 \\ 16 & 12 \end{bmatrix}$ (C) $\begin{bmatrix} 5 & 16 \\ 9 & 16 \end{bmatrix}$ (D) $\begin{bmatrix} 5 & 9 \\ 12 & 16 \end{bmatrix}$
3. If ABCD is a parallelogram with $\overline{AC} = x$ and $\overline{BD} = 6$, then $\overline{AB}$ is :
 (A) $x + 6$ (B) $x - 6$ (C) $\frac{1}{2}(6 - x)$ (D) $\frac{1}{2}(x - 6)$
4. If $f(x) = \begin{cases} \frac{|x-1|}{1-x} + a, & x > 1 \\ a+b, & x = 1 \\ \frac{|x-1|}{1-x} + b, & x < 1 \end{cases}$ is continuous at $x = 1$, then the values of 'a' and 'b' are respectively:
 (A) 1, 1 (B) 1, -1 (C) 2, 3 (D) None of these
5. The value of $\int_2^5 \frac{\sqrt{x}}{\sqrt{x} + \sqrt{7-x}} dx$ is:
 (A) 3 (B) 2 (C) 3/2 (D) 1/2

Mathematics Linear 43651f Paper Set 2

Suzanne Bower



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Washington with WebAssign Plus Math - 1 Semester All Wiley Access Set* William E. Boyce, WebAssign, 2019-08-29 **Linear
equations** Paul M. Cohn, 1971 Theory of Linear Ill-Posed Problems and its Applications Valentin K. Ivanov, Vladimir V.
Vasin, Vitalii P. Tanana, 2013-02-18 This monograph is a revised and extended version of the Russian edition from 1978 It
includes the general theory of linear ill posed problems concerning e g the structure of sets of uniform regularization the
theory of error estimation and the optimality method As a distinguishing feature the book considers ill posed problems not
only in Hilbert but also in Banach spaces It is natural that since the appearance of the first edition considerable progress has
been made in the theory of inverse and ill posed problems as well as in its applications To reflect these accomplishments the
authors included additional material e g comments to each chapter and a list of monographs with annotations **Linear
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fields in which mathematics is used Whether we deal with elastic deformations or electrical networks the flutter of aeroplane
wings or the estimation of errors by the method of least squares at some stage in the calculation we encounter a system of
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this question that this book is concerned By meeting the problem in its pure state the reader will gain an insight which it is
hoped will help him when he comes to apply it to his field of work The actual process of setting up the equations and of
interpreting the solution is one which more properly belongs to that field and in any case is a problem of a different nature
altogether So we need not concern ourselves with it here and are able to concentrate on the mathematical aspect of the
situation The most important tools for handling linear equations are vectors and matrices and their basic properties are
developed in separate chapters The method by which the nature of the solution is described is one which leads immediately
to a solution in practical cases and it is a method frequently adopted when solving problems by mechanical or electronic
computers

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