

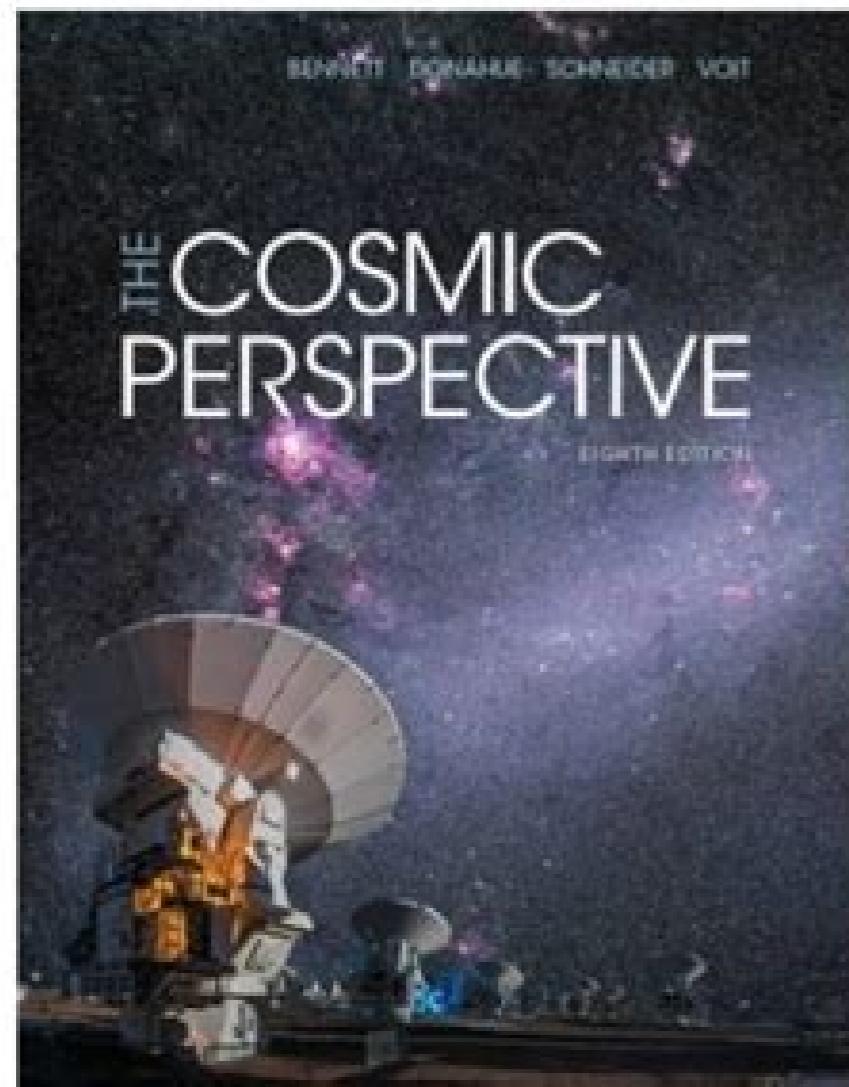


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1

Chapter 1  
Assessment, Measurement, and Evaluation

## Chapter Objectives

1. Describe assessment in the educational and classroom setting.
2. Identify ways on how assessment is conducted in the educational setting.
3. Explain how assessment integrated with instruction and learning.
4. Distinguish the critical features of measurement, evaluation, and assessment.
5. Provide the uses of assessment results.

## Lessons

- 1 Assessment in the Classroom Context
- 2 The Role of Measurement and Evaluation in Assessment
  - The Nature of Measurement
  - The Nature of Evaluation
  - Forms of Evaluation
  - Models of Evaluation
  - Examples of Evaluation Studies
- 3 The Process of Assessment
  - The Process of Assessment
  - Forms of Assessment
  - Components of Classroom Assessment
  - Paradigm Shifts in the Practice of Assessment
  - Uses of Assessment

F.Y.B.Sc (IT) Sem - I      Applied Mathematics - I

Jan - 2017      OV-4228  
Con. 98-16.      Applied Mathematics - I (3 Hours) [Total Marks : 100]

N.B. : (1) All questions are compulsory.

(2) Attempt any three sub-questions from each Question Nos. 2 to 7.

(3) Figures to the right indicate full marks.

1. Attempt any one :—

10

(a) If the matrix  $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$  is similar to a diagonal matrix.

Find the diagonal matrix.

(b) If  $u = \text{cosec}^{-1} \sqrt{\frac{\frac{1}{x^2} + \frac{1}{y^2}}{\frac{1}{x^3} + \frac{1}{y^3}}}$ ,

show that  $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = \frac{\tan u}{12} \left( \frac{13}{12} + \frac{\tan^2 u}{12} \right)$ .

2. Attempt any three :—

15

(a) Under what condition the rank of the matrix  $A = \begin{bmatrix} 2 & 4 & 2 \\ 2 & 1 & 2 \\ 1 & 0 & x \end{bmatrix}$  is 3?

(b) If  $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$  prove that  $A^3 = A^{-1}$ .

$$\begin{aligned} x_1 - x_2 + x_3 &= 0 \\ x_1 + 2x_2 - x_3 &= 0 \\ 2x_1 + x_2 + x_3 &= 0 \end{aligned}$$

(c) Find the solution of system.

its rank  $\begin{bmatrix} 0 & 1 & -3 & -1 \\ 1 & 0 & 1 & 1 \\ 3 & 1 & 0 & 2 \\ 1 & 1 & -2 & 0 \end{bmatrix}$

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