

A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester VI) Internal Examination - 2026
US06MIBOT01 :SUBJECT NAME: INFORMATICS AND STATISTICS FOR BOTANY

Date: 9-3-2026-Monday

Time: 10-45am to 11-45am

Total marks :20

Note: Figures to the right indicate marks of the question.

Q-1 Write the most appropriate answer from the following multiple-choice questions. [06]

- 1 Study of RNA transcripts is known as:
(a) Genomics (b) Proteomics
(c) Transcriptomics (d) Metabolomics
- 2 Bioinformatics plays an important role in:
(a) Drug discovery (b) Genome sequencing
(c) Personalized medicine (d) All of the above
- 3 A secondary database contains:
(a) Raw sequences (b) Literature only
(c) Analyzed and annotated data (d) Chemical compounds
- 4 Which of the following is qualitative data?
(a) Height (b) Weight
(c) Blood group (d) Temperature
- 5 Body temperature is an example of:
(a) Discrete data (b) Continuous
(c) Nominal (d) Categorical data
- 6 Classification of data means:
(a) Collecting data (b) Arranging data into groups
(c) Drawing graphs (d) Calculating mean

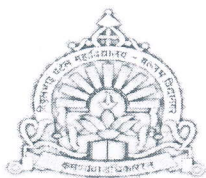
Q-2 What are primary, secondary and composite databases? Explain with examples. [07]
OR

Q-2 Write detailed note on KEGG pathways. [07]

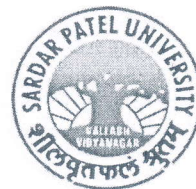
Q-3 Explain types of data and their representation. [07]
OR

Q-3 Calculate mean and median from the given ungrouped data: number of animals per cage-3,7,8,11,13,15,16,17,18,and 20. [07]





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BSC(Semester -6) Quiz - 2026
US06MIBOT01 : Informatics and statistics in Botany

Date: 9/3/26, MONDAY

Time: Maximum 10 minutes

Total marks :05

Q-1 Fill in the blanks with appropriate answer given in the bracket. OR Answer with either true or false.

- (i) Study of the complete set of genes in an organism is called: Genomics/Metabolomics.
- (ii) Study of complete set of proteins is called: Proteomics/Transcriptomics.
- (iii) EMBL is which type of database: Primary/Secondary.
- (iv) Primary data are: collected/curated.
- (v) The arrangement of data in row and column is called (Tabulation/Classification).

