



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
US06MICHE01 : ORGANIC CHEMISTRY-II

Date: 09/03/2026

Day: Monday

Time: 10:45 am to 11:45 am

Total marks : 20

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

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

- 1 Which one of the following compounds forms Zwitter ions?
(a) carbonyl compounds (b) amino acid
(c) phenols (d) proteins
- 2 The pH at which an amino acid do not have any tendency to migrate under the influence of an electric field is known as its
(a) iodine number (b) dipole moment
(c) wave length (d) isoelectric point
- 3 Which of the following is cyclic amino acid?
(a) Methionine (b) Glutamine
(c) Proline (d) Arginine
- 4 Vigorous catalytic hydrogenation of tetraline gives
(a) Naphthalene (b) 1,4 dihydronaphthalene
(c) Anthraquinone (d) Decaline
- 5 Which of the following is not aromatic in nature?
(a) Cyclopentadienyl Cation (b) Cyclopentadienyl anion
(c) Phenanthrene (d) Anthracene
- 6 How many π -electrons naphthalene has?
(a) 08 (b) 10
(c) 12 (d) 06

Q-2 Give synthesis of valine and leucine by direct ammonolysis method. [07]

OR

Q-2 Explain secondary structure of protein. [07]

Q-3 A) Explain: All C-C bonds in naphthalene are not equal. [07]

B) Prove that both rings in naphthalene are identical.

OR

Q-3 Give Haworth synthesis of naphthalene and α -substituted naphthalene. [07]



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Bachelor of Science (Semester VI) Internal Examination - 2026

US06MICHE01 : ORGANIC CHEMISTRY-II (Quiz)

Date: 09/03/2026

Day: Monday

Time: 10:45 am to 11:45 am

Total marks :05

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

Q-1 State whether the statement is TRUE or FALSE

[05]

- 1 Peptide linkage is the main structural feature of proteins.
- 2 Irreversible precipitation of proteins caused by heating is called inversion.
- 3 Anthracene is an aromatic compound.
- 4 Kinetic product in sulphonation of naphthalene is more stable.
- 5 Reduction of naphthalene with Na/EtOH at 78 °C gives decaline

