

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**M.Pharm. Winter 2017 - 18 Examination**

**Semester: 1**  
**Subject Code: MPC104T**  
**Subject Name: Chemistry of Natural Products**

**Date: 16/01/2018**  
**Time: 10:00 am to 1:00 pm**  
**Total Marks: 75**

**Instructions:**

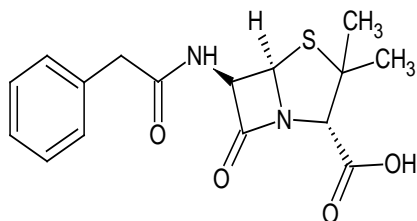
1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Essay Type Questions. (Any 2 out of 3) (15 Marks Each) (30)**

1. Give a brief note on chemistry of sterols, sapogenin and Cardiac glycosides.
2. Write short note on classification and isolation of Terpenoids, and structure elucidation of mono, di and tri Terpenoids.
3. Write a short note on a classification, isolation, molecular modification and biological activity of alkaloids.

**Q.2 Short Essay Type Questions. (Any 5 out of 6) (5 Marks Each) (25)**

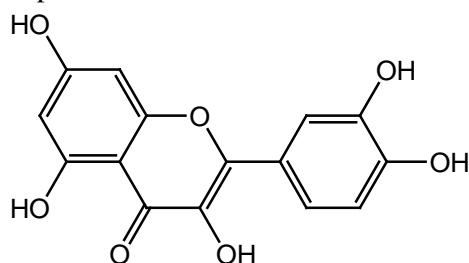
1. Give details account of drugs affecting the Central Nervous System.
2. Explain in details: Gene therapy.
3. Structure of penicillin G is given explains structural characterization with the help of IR, <sup>1</sup>H NMR, and MS Spectroscopy.



4. Explain: Hybridoma Technology in brief.
5. Give a brief note on Swertia Chirata.
6. Write short note on Chemistry of Macrolid antibiotics.

**Q.3 Short Answers. (2 Marks Each) (20)**

1. Write use of Curcuma Longa Linn.
2. Explain: Neuromuscular Blocking Drugs.
3. Give a brief note on chemistry of Vitamin B1.
4. Explain in brief: Contraceptive agents.
5. Write difference between Etoposide and Teniposide.
6. Write mechanism of action of Lovastatin.
7. Write use of Phyllanthus Niruri.
8. Explain Structural Characterization of Quercetin with IR spectroscopy.



9. Write Physiological significance of Vitamin A.
10. Explain: Stereochemistry of ephedrine in brief.