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| **Daffodil International University**  **Department of Pharmacy**  **Faculty of Allied Health Sciences**  **Midterm (Improvement) Examination: Fall 2019** | | |
| **Course Code:** | **BPH-122** | **Time: 1 hour 30 mins** |
| **Course Title:** | **Pharmacognosy-II** | **Full Marks: 25** |
| **Course Teacher:** | **Dr. Md. Ekramul Haque (EH), Dr. Md. Sarowar Hossain (SH), Sabreena Chowdhury Raka (SCR), Nahian Fyrose Fahim (NFF), Mashiur Rahman (MSR)** |  |
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| **(Answer any 10 questions of the following)** | | **10X2.5=25** |

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| 1. | Define glycoside and classify it based on chemical nature of aglycones. | 1+1.5 |
| 2. | Describe the functions of glycosides. | 2.5 |
| 3. | Define alkaloid. How can we detect the presence of purine alkaloid in the laboratory? | 1+1.5 |
| 4. | Write short notes on Nux vomica and Rauwolfia. | 1.25+1.25 |
| 5. | Draw the structure of the following chemical constituents:  Papaverine, Ergometrine, Pilocarpine | 2.5 |
| 6. | Discuss the chemistry of glycoside with example. Why the glycone part of glycoside is important? | 1.5+1 |
| 7. | Briefly describe Steroidal alkaloids with proper examples. | 2.5 |
| 8 | Schematically show the extraction pathway of alkaloid by using acidic solvent. | 2.5 |
| 9. | Define steroidal alkaloids with example. Write a short note on veratrum viride. | 1+1.5 |
| 10. | Describe the pharmacological action of alkaloid. | 2.5 |
| 11. | Shortly describe about the chemical constituents and uses of stramonium and hyoscyamus alkaloid. | 1.25+1.25 |
| 12. | Write down the biosynthesis of cocaine. | 2.5 |