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| **Daffodil International University**  **Department of Pharmacy**  **Faculty of Allied Health Sciences**  **Midterm Examination: Spring 2018** | | |
| **Course Code:** | **BPH-224** | **Time: 1 hours 30 mins** |
| **Course Title:** | **Pharmacology- I** | **Full Marks: 25** |
| **Course Teacher:** | **Sabreena Chowdhury Raka (SCR)** |  |
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| **(Answer any 10 questions of the following)** | | **10X2.5=25** |

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| 1. | Define the following terms with suitable example:   1. Therapeutic range ii. Pharmacogenomics iii. Posology   iv. AUC v. Illicit drugs | 5×0.5=2.5 |
| 2. | What are the differences between implant and inoculation? Which route is most desired during the management of critical patients? | 1+1.5 |
| 3. | ‘’The greater the first-pass effect, the less the agent will reach the systemic circulation’’ justify the statement. How can the first-pass be by passed? | 1.5+1 |
| 4. | Outline different routes of administration with their bioavailability profile based on ROA. Mention the time until effect for different ROA. | 1.5+1 |
| 5. | Make a comparative study of idiosyncrasy and hypersensitivity. | 2.5 |
| 6. | Diagrammatically show slow receptor with their transduction mechanism. Give example of such receptor. | 2.5 |
| 7. | What do you understand by the term second messenger? Briefly describe the mechanisms of drug action. | 0.5+2 |
| 8. | Define dose-response relationship. Compare and contrast between arrythmatic dose response and log dose response curve. | 0.5+2 |
| 9. | Write down the factors that may modulate drug absorption process. | 2.5 |
| 10. | Mention the factors influencing the rate of diffusion of a substance across a membrane. What are the key differences amongst different transport systems? | 1+1.5 |
| 11. | What do you understand by specialized transport system? Schematically show electrochemical diffusion and ion pair transport. | 0.5+1+1 |
| 12. | Briefly discuss the biotransformation reactions that are responsible for drug excretion from the body. | 2.5 |