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| **Daffodil International University**  **Department of Pharmacy**  **Faculty of Allied Health Sciences**  **Midterm (Improvement) 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. Drug dependence ii. OTC drug iii. Drug misuse | 1+0.75+0.75 |
| 2. | Illustrate carrier-mediated transport with appropriate figure. | 2.5 |
| 3. | ‘’The highly plasma protein binding drugs are largely restricted to the vascular compartment’’-justify the statement. | 2.5 |
| 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 vascular transport process. | 2.5 |
| 6. | Schematically show kinase linked receptor with their transduction mechanism. Give example of such receptor. | 2.5 |
| 7. | Differentiate between agonist and antagonist? Write down the advantages of combination drug therapy. | 1+1.5 |
| 8. | Compare and contrast between drug synergism and antagonism with suitable example of each. | 2.5 |
| 9. | Write short notes on BBB and BPB. | 1.25+1.25 |
| 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. | Define implant. Give example. Schematically show pore diffusion and facilitated transport. | 0.5+1+1 |
| 12. | Briefly discuss phase I biotransformation process that are responsible for drug excretion from the body with appropriate example of each. | 2.5 |