

International Islamic University Chittagong
Department of Pharmacy

Hon's) Program

Final Examination

Spring Semester 2018

Code: Pharm-4715

Course Title: **Research Methodology**

Duration: 30 minutes

Full Marks: 50

Questions of separate groups should be given in separate scripts. Figures on right margin indicate marks)

Group A *(Answer any two questions from the followings)* **Marks: 20**

- 1. Write down the basic criteria for a research design. State on the needs and importance of research designing. 2+2
- 2. "A good research design must follow some key features" – justify. 2
- 3. Make your comments on the sampling design, observational design, statistical design and operational design. 2
- 4. Explain how a cross-sectional study could be transformed into a longitudinal study? 2
- 5. What is the meaning of measurement in research? What difference does it make whether we measure in terms of a nominal, ordinal, interval or ratio scale? Explain giving examples. 5
- 6. Point out the possible sources of error in measurement. 3
- 7. Criticize the tests of sound measurement. 2
- 8. What do you mean by sampling? List up the steps required for a standard sampling procedure. 3
- 9. Make a flow chart to show how you can execute sampling design. 2
- 10. Explain to prove: i) Sample and population are not same ii) Census is different from survey 3
- 11. Diagrammatically show how a good sample could be transformed into bad sample. 2

Group B *(Answer any three questions from the followings)* **Marks: 30**

- 1. What do you mean by data? Write down the major objectives for data collection. 1+2
- 2. "Data are classified based on the sources where the data are collected from" – justify. 2
- 3. Explain the prospective method of primary data collection. Which one does you chose the best? 1+2
- 4. Is interview a primary or secondary data collection method? How an interview could be both standardized and non-standardized? 1+1
- 5. Why is it necessary to collect data for a research? How does a researcher extract secondary data from primary data sources? 1+2
- 6. Enumerate the different methods of collecting data. 4
- 7. Which type of data collection method is most suitable for conducting enquiry about diabetes mellitus among an urban population? Criticize its advantages and disadvantages. 3