

**International Islamic University Chittagong**  
**Department of Electrical and Electronic Engineering**

Final Examination Spring-2018

Program: B.Sc. Engg. (EEE)

Course Code: EEE-4721

Course Title: Research Methodology

Time: 2 hours 30 minutes

Full Marks: 50

**Use separate script for each part. Figures in the right margin indicate full marks.**

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**Part A**

[Answer any two questions from the followings]

Q1

- a) "Research design is an arrangement for collection and analysis of data"-justify 3
- b) What are the features of a good research design? 2
- c) Do you think that the principle of replication improves the statistical accuracy? If so, explain it in your own word by providing a suitable example. 5

Q2

- a) What is research proposal? Distinguish between research design and a research proposal? 5
- b) What are the common mistakes that should remember while writing a research proposal? 5

Q3

- a) Distinguish between the principle of replication and principle of randomization with suitable example. 5
- b) What are the main parts of an ideal research proposal? Describe in brief on each of the parts. 5

**Part B**

[Answer any three questions from the followings]

Q4

- a) "Abstract is a summary of a Thesis"-do you agree with this statement? Give a rational explanation for your answer. 5
- b) Distinguish between the major contents that should be included in the results and discussion part 2
- c) What are the common plagiarisms that are done by the students? How can you avoid the plagiarism in your thesis? 3

Q5

- a) What do you know about journal article? What are the major types of journal articles? Write in brief about each of them. 6
- b) Which are the criteria's that you should care while selecting any journal or conference for publishing your research paper? 4

Q6

- a) What are the main national or international presentations? Write at least two main features for each of them. 5
- b) Among the national or international presentations which one or which are more important for your carrier? Give suitable clarifications in support of your opinion. 5

Q7

- a) What do know about impact factor of a journal? How to calculate two year and five year impact factor of journal? 5
- b) Why exploring higher studies is important for the students of Bangladesh? How would you prepare yourself for higher studies? 5