

1st Grade Elec. Eng. **Technical Reports** Course Code: EE2116

Time: Two Hours

Final Term Examination January 2014

Answer the following questions

(Total: 40 Marks)

FIRST QUESTION (10 MARKS)

Choose the correct answer

انقل رقم السؤال ورقم اجابته الصحيحة فقط في كراسة الإجابة

- 1. The appendix forms a part of the
 - A. front matter
 - B. main text
 - C. glossary
 - D. back matter
- 2. Each figure within a report should have a title and a number
 - A. Under the figure
 - B. Above the figure
 - C. Inside the figure
- 3. The cover letter is:
 - A. summary of your qualifications and experiences
 - B. description of your core strengths and suitability for the job
 - C. statement of your job objective
- 4. The difference between standard academic reports and field reports is
 - A. The language used in field reports is simpler,
 - B. The language used in academic reports is personal
 - C. Both the above two answers are correct
 - D. None of the above answers are correct
- 5. You should always include terms such as 'we' and 'our' in reports to sound friendlier.
 - A. True
 - B. False
- 6. The section explains the schedule with time for doing the proposal is called:
 - A. Plan of Action
 - B. Criteria for Proposal Evaluation
 - C. Management Plan



لاحظ أن أسئلة الامتحان من 3 صفحات



- 7. The purpose of an essay is:
 - A. to introduce and document engineering and scientific designs
 - B. to show how well you have understood a question and are able to answer it
 - C. to convey specific information to provide the reader with information
- 8. A list of all the reference material you consulted during your research for the report is called:
 - A. References
 - B. Glossary
 - C. Bibliography
 - D. Table of contents
- 9. In a design report the engineers audiences are interested in how the design work and how effective the design is.
 - A. True
 - B. False
- 10. The glossary is the list of:
 - A. references
 - B. diagrams used in the report
 - C. subjects covered in the report
 - D. technical terms used in the report

SECOND QUESTION (20 MARKS)

Give a brief answer (اجابة مختصرة) of ONLY 10 of the following questions اكتب رقم الأسئلة التي تقوم بإجابتها حسب الموجود في ورقة الأسئلة

- 1. Differentiate between solicited and unsolicited proposals
- 2. What make a technical presentation effective?
- 3. Explain the purposes of writing reports?
- 4. Compare between CV, Resume, and Application form
- 5. In a Field Report: what are the things to look for when observing?
- 6. What are the main contents of a Thesis?
- 7. Is there any difference between the "References" in: design report, CV and thesis?
- 8. What are the main items that must be included in the "Introduction" of a Design Report?
- 9. What are the forms of Progress Reports?
- 10. Compare between formal and informal appendices in a report?
- 11. What are the main sections of Laboratory Reports?
- 12. What are the main sections of a Formal Report?

THIRD QUESTION (10 MARKS)

3.1 Rewrite the following references in a correct formal reference list (4marks) Reference (1)

"Control Strategies for MicroGrids Black Start and Islanded Operation", Vol. 1, No. 3, July, 2005, J. Lopes, C. Moreira, International Journal of Distributed Energy Resources.

Reference (2)

A. N. Kumar and V. K. Chinnaiyan,"Comparison of Modulation Techniques for Matrix Converter" IACSIT International Journal of Engineering and Technology, Vol. 2, No. 2, April 2010

Reference (3)

IEEE Transactions on Power Delivery, Vol. 22, No. 1, January 2007, "Steady-State Model and Power Flow Analysis of Electronically-Coupled Distributed Resource Units", Hassan Nakeeb, Reza Irani

3.2 Identify the errors in writing the following table

(3marks)

Attribute	P.S.I	A	В	C
Fund Corr.	10	-2	-2	-1
Perf. Guaz	8	-0.8	-0.8	-4
Prod. Cost	10	-2	-1	-10
O & M Costs	8	0	0	-10
Ergonomic	10	-3	-3	-1
Psychological	5	0	0	-1
Legal	5	-1	-1	0
Total	64	-8.8	-7.8	-27.8

Table 3.6.Performance Success Index Table

3.3. Following is a part of a Ph. D. thesis contents.

Rewrite the contents in a formal form

(3 marks)

- 1. introduction
- 2. modeling framework
- 2.1 equivalent electrical circuit model
- 2.1.1 mathematical modeling of PV
- 2.1.2 building the PV model
- 2.2 validation of the model
- 2.2.1 model validation under standard test conditions
- 2.2.2 model validation for different temperature levels
- 2.2.3 model validation for different radiation levels
- 3. simulation and results

With my Best Wishes

Prof. Dr. Magdi El-Saadawi

18/1/2014