

SUNAME	FIRST NAME	STUDENT NO.
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POWER SYSTEMS 3 – MAIN EXAM

DURATION OF EXAM: 2 HOURS

TOTAL MARKS ON PAPER: 75

NUMBER OF MARKS TO OBTAIN 100%: 75

DATE AND TIME: Monday 10 October 2016, 9am to 11 am

INSTRUCTIONS

- ONLY NON-POGAMMABLE CALCULATORS MAY BE USED
- THIS IS CLOSED BOOK EXAM SO NO ADDITIONAL INFORMATION MAY BE TAKEN INTO THE EXAM ROOM
- ATTEMPT ALL QUESTIONS – 75 MARKS WILL SCORE 100 % WHICH IS THE MAXIMUM SCORE
- MARKS WILL BE LOST FOR ILLEGIBLE WRITING AND LACK OF CORRECT EXPLANATION

QUESTION	EXAMINER	MODERATOR
1		
2		
3		
TOTAL MARKS		

Internal Examiner: Professor D G Dorrell

Internal Moderator: Prof J Agee

External Examiner: Dr David Oyedokun

Question 1

You studied an allocated topic as part of this subject and delivered a report and made presentations.

Write an essay that addresses the technical findings in your study. Split your essay into two sections:

- a) What you studied in your component. [16]
- b) What the other group members studied. [15]

In your essay, you should address the context of your study within the area of power systems and also your overall topic.

Question 2

As part of the study course you carried out a laboratory on either a wind turbine system or a PV system, and you wrote a report on it. Identify which laboratory you did and write a short report on your findings. In your report, ensure you report on:

- a) Components in your system and their function.
- b) A diagram explaining the interconnection of the system or systems.
- c) Power ratings of your laboratory system and expected ratings of typical commercial systems.

These are not exclusive points. You should add further details from your study. [20]

Question 3

You have been furnished with reports from other groups for use as study notes. Write a short summary on THREE of these study notes. Clearly identify what each of Topic is about and identify the salient points and the context of each study. [3×8]

END OF PAPER