

Unit	UEPOPS456A Perform switching to a switching program -- -- --	Test Number	2/2
Total Marks	50	Time allowed	2 HR

#### Instruction to assessors

- Please provide the blank A4 sheets to students to write the answers on them
- Please tell the students not to write on the question papers
- Online test can also be supplemented.
- The marking can be done by referring the attached marking guide
- Giving the marks based on students' effort & demonstration of the absorbed study & competency rather than the final answer is to made
- The necessary formulas can be provided on the white board.
- The formula which can be provided will be advised separately.
- No notes, digital storage devices, programmable calculators are allowed.
- Page 1 = Instruction to assessors & students
- Page 2+(3)= Question Paper
- Page (3)+4 and the remaining pages= Marking Guide

#### Instruction to students

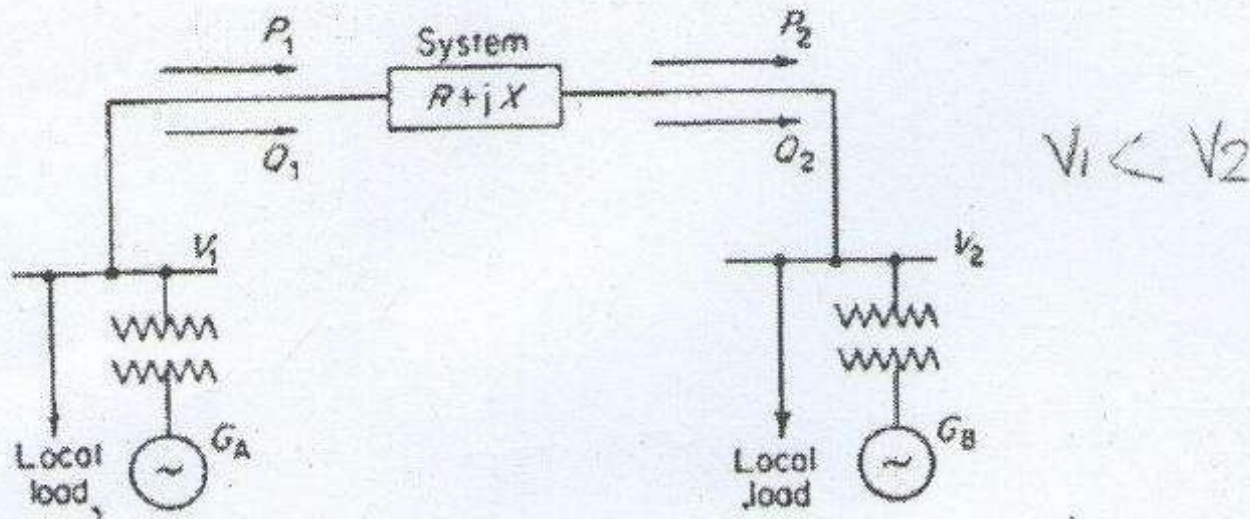
- Write the answers on provided A4 blank sheets
- Do not write the answers on the question papers
- Online test can also be supplemented.
- The marking can be done by referring the attached marking guide
- The necessary formulas can be provided on the white board on request..
- The formula which can be provided will be advised separately.
- No notes, digital storage devices, programmable calculators are allowed.



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### 30 Marks

1. Find the real power supplied by Generator A and Generator B

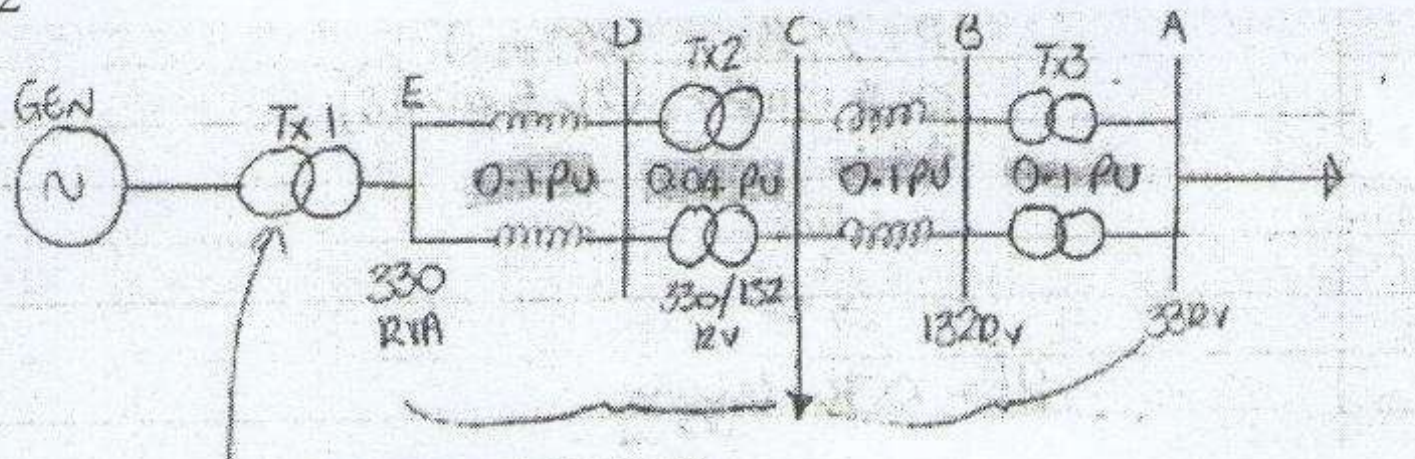


GA- Generator A 200MW 6% Drop

GB- Generator B 400MW 7% Drop

(9 marks)

2



Generator TX/330kv

Load 300MW 0.9PF Lagging Base 100MVA

In above diagram, what total MW and MVAR must the generator supply and at what power factor? (9 marks)

3. Sketch power angle curve of synchronous machine.

(4 marks)

4. Explain how reactive power is controlled by using Static Var Compensation system

(4 marks)

5. How will you connect reactive power control capacitor bank to 3 phase power supply system? (4 marks)

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