

Unit	UEPOP525A Co-ordinate Direct Switching Program	Test Number	1
Total Marks	100	Time allowed	2 hr

Instruction to assessors
<ul style="list-style-type: none"> <li>• Please provide the blank A4 sheets to students to write the answers on them</li> <li>• Please tell the students not to write on the question papers</li> <li>• Online test can also be supplemented.</li> <li>• The marking can be done by referring the attached marking guide</li> <li>• Giving the marks based on students' effort &amp; demonstration of the absorbed study &amp; competency rather than the final answer is to made</li> <li>• The necessary formulas can be provided on the white board.</li> <li>• The formula which can be provided will be advised separately.</li> <li>• No notes, digital storage devices, programmable calculators are allowed.</li> <li>• Page 1 = Instruction to assessors &amp; students</li> <li>• Page 2+3= Question Paper</li> <li>• Page 4 and the remaining pages= Marking Guide</li> </ul>
Instruction to students
<ul style="list-style-type: none"> <li>• Write the answers on provided A4 blank sheets</li> <li>• Do not write the answers on the question papers</li> <li>• Online test can also be supplemented.</li> <li>• The marking can be done by referring the attached marking guide</li> <li>• The necessary formulas can be provided on the white board on request..</li> <li>• The formula which can be provided will be advised separately.</li> <li>• No notes, digital storage devices, programmable calculators are allowed.</li> </ul>

1	Sketch Star Delta starting method and Auto Transformer starting method.	10
2	Explain the following (i) Protection against low voltage (ii) Time delay protection	10
3	Sketch the wound rotor motor.	10
4	Explain the followings (a)Cable Tag (b) Distribution Cable (c) Control Cable	10
5	Explain ship propulsion electrical control system What is steering system?	10

6	Describe turbo electric propulsion system with necessary sketch.	10
7	Explain the synchronous motor based propulsion and control system	10
8	Write the procedure for operation of hydraulic power plant for deck machineries	10
9	What are the safety features in modern electric cranes	10
10	Sketch the arrangement of compressed air system	10

