

Manmohan Technical University
Office of the Controller of Examinations
Exam Year: 2082, Mangsir(Model Question)

School: SOE	Level: BE	Time: 1.5 Hours
Program: BEE	Year/Part: I/II	Full Marks: 20
Subject: Engineering Drawing II (EG452EE)		

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

GROUP A – (Attempt Any Five Question)

[5×2=10]

- 1) Draw the wiring diagram of two way and intermediate switches connection for building staircase lighting.
- 2) Draw the circuit diagram for impulse relay and timer for street lightening.
- 3) Draw the wiring diagram of change over switch to control stand by NEA main supply and diesel generator.
- 4) Draw the layout diagram for 33 kv outdoor substation.
- 5) draw the connection diagram of 3 phase 3hp 440v delta connected induction motor by using star / delta rotary switches.
- 6) Draw the circuit diagram for brushless alternator excitation system.

GROUP B – (Attempt Any Two Question)

[2×5=10]

- 1) Draw detail panel board fabrication diagram of 250 Amp incoming MCCB.
 - a. 3*100 Amp outgoing MCCB –
 - b. 2*60 Amp outgoing MCCB –
 - c. 2*40 Amp outgoing MCCB –
 - d. 2*20 Amp outgoing MCCB –
 - e. 300 Amp TPN Busbar, earth busbar, Voltmeter, Ammeter CTS – selector switches,
- 2) Draw the connection and control diagram of direct on line (dol) for 3 phase 380v star connected induction motor using OLR , contactor , and push button switches.
- 3) Draw the winding diagram of induction motor for 36 slot 3 phase, 2- pole single layer.

THE END