

B.E. (Civil Engineering) Model Curriculum Semester-VI
OEC-CE602B - Metro System and Engineering

P. Pages : 1

Time : Three Hours



GUG/W/24/13732

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Write short note on Metro Act. 8
b) Why metro system is needed in India. 8

OR

2. a) Give various impacts of Metro rail system. 8
b) Give an overview of World metro system. 8

3. a) Write about the initial survey and investigation in metros. 8
b) Differentiate between top down and bottom up construction of underground metro station. 8

OR

4. a) Write about the environmental and social safeguards in metros. 8
b) Why do you meant by traffic integration in metros? Give the approach adopted in traffic integration facilities? 8

5. a) Write and explain the various types of signals in metros. 8
b) Write about the automatic fare collection in metros. 8

OR

6. a) What do you meant by signals in metro? Give the types of signals and illustrate each. 8
b) Write short note on platform screen doors. 8

7. a) What are various features of rolling stock in metros? 8
b) Write short note on tunnel ventilation system. 8

OR

8. a) What do you meant by lifts & escalators? Write about the levels of elevators in metros. 8
b) Write short note on air conditioning for station and buildings in metros. 8

9. a) What are the features of metro rail electrification in metros? 8
b) Write short note on overhead equipment. 8

OR

10. a) Write short note on Carbon credits and clean air mechanics in relation with metros. 8
b) What are the positive impacts of green metro projects. 8
