Roll No. ☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 18

B.Tech. (CE) (2018 Batch)   (Sem.–4)
TRANSPORTATION ENGINEERING
Subject Code : BTCE-404-18
M.Code : 77647

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

Answer briefly :

Q1. Give examples of surface, underground and elevated rapid rail transit.

Q2. What is Built up spray grout?

Q3. What are the drawbacks of alternate bay method of construction of cement concrete slab?

Q4. What is saturation system?

Q5. How are roads classified based on type of carriageway?

Q6. How are railway gauges classified?

Q7. How is loading gauge different from construction gauge?

Q8. Why is coning of wheels required?

Q9. What are the various factors on which location of exit taxiway depends?

Q10. What do you mean by fillets?

SECTION-B

Q11. What are the various modes of transport? Discuss their relative role, advantages and disadvantages.

Q12. Briefly outline main features of various road patterns commonly in use alongwith neat sketches.

Q13. Write notes on :

   a) Prime coat

   b) Tack Coat

   c) Seal coat

Q14. Discuss briefly the causes and effects of creep in the railway track.

Q15. What is wind rose diagram? What is its utility? What are its types? Explain each type.

SECTION-C

Q16. Briefly outline highway development in India.

Q17. Compare the characteristics of the different types of sleepers used in India.

Q18. Enumerate various factors which you would keep in view while selecting a suitable site for an airport.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.