SRM VALLIAMMAI ENGINEERING COLLEGE

B.E DEGREE EXAMINATION

Model Question Paper

Fourth Semester

Civil Engineering

CE8401 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A  (10x2=20 Marks)

1. Distinguish load bearing structure & framed structure
2. What is an energy efficient building?
3. Define damp proof course. What are its causes of dampness?
4. Why are construction Joints provided?
5. What is meant by micro piling?
6. Define Shoring.
7. What are the advantages of articulated towers?
8. What are launching girders?
9. Differentiate between single acting and double acting hammer.
10. List out the various types of vibrators used in compaction process.

PART – B  (5x13=65 Marks)

11. a) Explain structural system & its types in detail.
    Or

    b) Give the stepwise procedure of load transfer mechanism, explain each in detail

12. a) Write the sequence of Construction activities in detail.
    Or
b) Describe the different types of bonds in brick masonry with neat sketches.

13 a) Define Tunneling. Explain in detail about the different tunneling methods

Or

b) Explain in detail about the various methods of dewatering process with neat sketch.

14 a) Explain the construction techniques for bridge decks.

Or

b) Explain about the support structures required for heavy equipment and conveyors.

15 a) Write in detail about the various factors to be considered in the selection of equipment for earthwork.

Or

b) What do you mean by dredging? List out the types of equipment used for dredging.

PART – C (1x15=15 Marks)

16 a) What is coffer dam? With the help of Sketches explain various types of coffer dam.

Or

b) What is Scaffolding? Mention its various components. Name the different types scaffolding and explain any four with neat sketches.