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Total No. of Questions :8]

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Roll No

CE-802

B.E. VIII Semester

Examination, June 2017

Construction Planning & Management

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any Five questions.

- ii) All questions carry equal marks.
- iii) Assume suitable data, if required.
- a) Describe the factors affecting the job layout and draw a neat sketch of job layout for construction of multistoreyed building.
 - b) Differentiate between PERT and CPM.
- a) Explain the formwork. What is the requirement of good formwork. Mention stripping times for formwork.
 - b) Discuss various factors affecting the selection of construction equipment.
- 3. From the following data determine the probable cost of owning and operating a 5 cum diesel engine crawler mounted power shovel:
 14

Factory price of power shovel = Rs. 8,00,000

Freight charges = Rs. 60/tonne

Shipping weight = 120 tonne

Unloading and assembly charges = Rs. 4,200

Engine Power = 190 H.P

Crank case capacity = 45 litre

Time between the oil changes = 100 hours

Useful life = 5 years

Operating hours per year = 4000 hrs.

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PTO

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Salvage value = Rs. 85,000

Operating factor = 0.6

Maintenance and Repair cost = 100% depreciation

Cost of diesel = Rs. 50/litre

Cost of lubricating oil = Rs. 200/litre

adopt straight line method of depreciation and take investment cost as 15% of average investment cost.

- 4. a) Compare the characteristics and applications of different types of earth excavating equipment. 7
 - b) Draft a notice inviting tenders for the construction of a canteen building.
- a) State and explain various types of contracts for execution of Civil Engineering works. Give merits and demerits for each of them.
 - Explain the methodology for settlement of contractual disputes through arbitration.
- 6. a) Explain in detail the different types of specification, 7
 - b) Explain the various forms used in construction work. 7
- 7. a) Explain the three types of organisation and explain the suitability of each type for different construction. 10
 - b) Describe the five important provisions of the labour welfare Act 1965.
- 8. Write short notes on any four of the following: $4 \times 3\frac{1}{2} = 14$
 - a) Problem of equipment management.
 - b) Transportation model.
 - c) Measurement book.
 - d) Compaction and grouting.
 - e) Schedule of construction.
 - f) Free float and total float.

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