

Find which bid should be accepted based on present worth method of comparison at 15% interest rate?

28.500

4 a. Briefly explain future worth comparison method and pay back method.

В

5,40,000

b. Among the two alternatives given below, to obtain desirable return evaluate best alternative based on future worth comparison method at 12% interest rate.

| Details | Alternative - I | Alternative - II |
|--------------------------|-----------------|------------------|
| i) First Cost (Rs.) | 20,00,000 | 36,00,000 |
| ii) Annual tax (Rs.) | 80,000 | 1,50,000 |
| iii) Annual income (Rs.) | 8,00,000 | 9,80,000 |
| iv) Salvage value (Rs.) | Zero | Zero |
| v) Life (years) | 20 | 20 |

12

8

15

P13CV72

UNIT - III

| | | | | UNI | 1 - 111 | | | | | | | |
|--------------------------------|---|---------------------------------------|---------|----------|----------------|---------|-------|-------|-------|---|----|--|
| 5 a. | Give classification of construction works. Bring out various stages in construction works. | | | | | | | | | | 8 | |
| b. | List out objectives of materials management. | | | | | | | | | 6 | | |
| c. | Bring out impo | ortance of safety ma | anagen | nent in | constru | uction. | | | | | 6 | |
| 6 a. | Discuss briefly basic elements of quality in construction. | | | | | | | | | 6 | | |
| b. | Briefly explain value engineering job plan phases. | | | | | | | | | | 6 | |
| с. | Explain factors | affecting selection | n of co | nstructi | ion equ | ipment | | | | | 8 | |
| UNIT - IV | | | | | | | | | | | | |
| 7 a. | Define : | | | | | | | | | | | |
| | i) Critical path | ii) Slack | | | | | | | | | 4 | |
| | iii) Float | iv) Free f | loat. | | | | | | | | | |
| b. | b. Write differences between CPM and PERT. | | | | | | | | | | | |
| с. | b. Write differences between CPM and PERT. c. Activities and duration of a project are listed below. If the scheduled completion time is equal | | | | | | | | | | | |
| | to earliest expected time (T_E) for the end event. Calculate the slack time for each event and | | | | | | | | | | | |
| | identify the crit | | | | | | | | | | 10 | |
| | | Activity | 0 - 1 | 1 - 3 | 1 - 2 | 2 - 3 | 1 - 4 | 3 - 4 | 4 - 5 |] | 10 | |
| | | Duration (Days) | 3 | 16 | 6 | 8 | 10 | 5 | 3 | | | |
| 0 | ~ . | / | | | Ũ | Ũ | 10 | | |] | _ | |
| 8 a. | | | | | | | | | | 6 | | |
| | b. Explain briefly construction of Barchart and Milestone chart. | | | | | | | | | 6 | | |
| c. | c. Briefly Explain : | | | | | | | | | 0 | | |
| | i) Job layout | | | | | | | | | | 8 | |
| ii) Work break down structure. | | | | | | | | | | | | |
| | | | | UNI | [T - V | | | | | | | |
| 9 a. | . Explain the terms : | | | | | | | | 6 | | | |
| | Sinking fund, Obsolescence and Depreciation. | | | | | | | | | | | |
| | . List different methods of valuation of property. Explain any one method. | | | | | | | | | | 6 | |
| с. | c. Calculate the standard rent of a residential building newly constructed from the following data : | | | | | | | | | | | |
| | , | = Rs. 1.00 lakh | | | | | | | | | | |
| | , | struction $= 4.00$ lak | | | D 0/ | | | | | | | |
| | iii) Cost of roads within compound and fencing Rs. 20,000 | | | | | | | | | | 0 | |
| | | | | | | | | | | 8 | | |
| | v) Cost of electrification including fans at 10% of cost of building | | | | | | | | | | | |
| | , 1 | house $\tan = \operatorname{Rs.} 400$ | - | nnum | | | | | | | | |
| | | at Rs. 250 per annu | | | | | | | | | | |
| 10 | viii) Property tax at Rs. 140 per annum. | | | | | | | | | | 6 | |
| | 0 a. Write characteristics of an entrepreneur. | | | | | | | | | 6 | | |
| b. | b. Write short note on : | | | | | | | | | ~ | | |
| | i) KIADB | | | | | | | | | | 6 | |
| ~ | ii) KSFC. | | | | | | | | | | 0 | |
| c. | c. Briefly bring out planning commission guidelines for project report. | | | | | | | | | 8 | | |