

P P SAVANI UNIVERSITY

Fifth Semester of B. Arch. Examination
December 2021

SAAR3230 Estimation, Costing & Specification
Time: 09:00 a.m. To 12:00p.m.

22.12.2021, Wednesday

Maximum Marks: 100

Instructions:

1. Question No. 1 is mandatory.
2. Make suitable assumptions and draw neat figures wherever required.
3. Use of calculator is allowed.

Q - 1 Write True or False

- (a) Specification means giving complete detail of specific work to be executed on site
- (b) Specification defines the quality of material
- (c) Specification is an information been float by an Architect or an Engineer about the execution of project
- (d) Estimate is just an idea of required amount to be invested
- (e) Availability of labor is an important factor of estimation
- (f) Number of labors required is also a part of an estimate
- (g) The estimator must be good in mathematical calculations
- (h) Estimator should have a good eye of reading drawings
- (i) Detailed specifications have general provisions
- (j) Specifications are written for good workmanship
- (k) Open specification describes the physical properties of material
- (l) Only known abbreviations must be used while preparing estimates and specifications
- (m) Sequencing of the words must be proper while drafting specifications
- (n) Cu.m. is the unit of sand
- (o) Units of pipes is measured in running meter
- (p) Adhesive is measured in kilograms
- (q) Bricks are calculated per number
- (r) Approximate rate of sand bad is between INR 375-400
- (s) Long wall and Short wall method is used for the purpose of estimation
- (t) Costing helps to know the exact rate while preparing estimate.

[20]

Q - 2 Explain in short-

- (a) What is specification?
- (b) What is the need of specification?

(10)

Q - 2 Define-

OR

- (a) Who can be a good estimator?
- (b) Why estimation is important in architecture?

(10)

Q - 3 Explain in Short-

- (a) What is costing?
- (b) Is there any difference between estimation and costing?

[10]

Q - 3 Explain in short-

OR

- (a) Specifications are the part of Contract document. How?
- (b) What are the steps involved in drafting a specification?

(10)

- Q - 4** Attempt any One. **[10]**
- (a) Write your view on importance of estimation, costing and specifications
- (b) What are the units assumed of the following?
1. Brick Work
 2. Plaster
 3. Iron
 4. Wood
 5. Plastering
 6. Aluminum
 7. Painting
 8. Concrete
 9. Glass
 10. Plywood

- Q - 5** Prepare an estimate of brickwork of a room size 6m x 4m having one window opening of size 2m wide and 1.5 in height at 1m sill level on one of the short wall and a door opening of 1m with and 2.1m in height on one of the longer wall. Sketching the diagram (nts) is mandatory. **[10]**

- Q - 6** Attempt any 2 **[20]**
- (a) What is the importance of language while preparing specifications?
- (b) Assume that if there were no specifications of a project than what will be the adverse situations which will occur during execution of the project? Explain.
- (c) What is the purpose of furnishing the estimate to client? Explain

- Q - 7** Write Specifications for any 2 **[20]**
- (a) Class A Brick Work
- (b) Mala Plaster
- (c) R.C.C (1:2:4)
