**QUESTION BANK**

**CE 2402 ESTIMATION AND QUANTITY SURVEYING**

**SJCET / THANJAVUR / CIVIL DEPARTMENT**

**UNIT-I**

***2 MARKS***

1. What are the types of estimate?
2. Estimate the quantities of brickwork and plastering required in a wall 4m long, 3m high

And 30 cm thick. Calculate also the cost if the rate of brickwork is Rs.32.00 per cu.m and

of plastering is Rs. 8.50 per sq.m

1. What are the main components of culvert?
2. Define lead and lift
3. Differentiate Floor area and carpet area?
4. A cement concrete road (1:2:3) is to be constructed over the existing water bound

macadam road .The thickness of slab =10cm.The length of the road is one km and the

width 3.60m.Calculate the quality of cement concrete and the material required,

1. What are the types of arches?
2. Define culvert
3. What is canal fall?
4. What are the types of culvert?
5. Briefly explain about preliminary Estimate
6. Write the duties of quantity surveyor
7. What are the methods of taking out quantities?
8. What is prime cost
9. What is schedule of rates?
10. Define joineries
11. Define estimate
12. What is the importance of soak pit?
13. List the various sanitary fittings?
14. Draw and mention the parts of culvert

**16 marks**

1. Calculate the quantities of box culvert.

a) Earth work in foundation

b) Sand filling

c) PCC in foundation

d) Brickwork cm 1:4 in foundation

d) RCC 1:2:4 cover slab

e) Brickwork cm 1:4 in parapet

1. What are the various methods of estimate
2. Explain in detail about
   1. Joineries
   2. Arch types
   3. Abstract estimate
   4. Supplementary estimate
3. Estimate the quantities of brickwork in an arch over 1.8m span opening. the arch are 40cm thick and breadth of wall is 40cm
4. Prepare the detailed estimate of two room building with front verandah from the drawing

a) BW in cm 1:5 in superstructure

b) Earth work excavation

c) Ceiling plastering cm 1:3

1. What are the methods of measurement and give the units of measurement for the following items
   * 1. Plinth beam
     2. Plastering
     3. Flooring
     4. Earthwork excavation
2. Prepare a detailed estimate of a septic tank in the soak pit and calculate the quantities for
   1. Earth work excavation
   2. PCC in foundation 1:3:6
   3. Brickwork cm 1:4 in septic tank
   4. Brickwork cm 1:6 with second class brick in soak pit
   5. Precast RCC work of roof cover slab
   6. Plastering with cm 1:3 in 12mm thick
3. Draw the different types of sanitary fittings?
4. Calculate the quantities of all item of work for the construction of retaining wall for length of 20m.
5. Calculate the quantities of following item in fig
   1. First class Brickwork cm 1:6 with superstructure include parapet
   2. PCC in foundation
   3. Ceiling plastering

**UNIT-II**

1. The cost of construction of an overhead water tank of capacity 100mm2 is Rs 5,75,000 find out the unit rate/lr
2. Differentiate abstract and detailed estimate
3. Explain the difference between soak pit and dispersion trench?
4. Calculate the no of standard modular bricks required for flat bricks soling for 1km length of 3.7m wide road.
5. What are factors to be considered in design of septic tank?
6. Write the formula for Mid ordinate rule and Prismoidal formula Rule
7. .Briefly explain about revised estimate
8. What are the methods of taking out estimates?
9. Briefly explain about Out to Out and in to in method.
10. What is the formula for mean of the segmental arch with span and rise given?
11. Give the units of measurement a)DPC b)weathering course
12. What is centerline method?
13. Estimate the quantities of brickwork in an arch over 1.8m span opening.the arch are 40cm thick and breadth of wall is 40cm.
14. Define lumpsum
15. What is painting co efficient?
16. Estimate the quantities of brickwork and plastering ina wall 4m long,3m high and 30cm thick. Calculate the cost if the rate of brickwork is Rs.32/cu.mm and plastering Rs8.50/sq.m
17. Workout the quality of stone metal required for 2Km.Length for wearing coat of a 4m

Wide road. The thickness of the metal road required is 12cm loose

1. Explain Cubical Content Estimate
2. What are methods to be adopted for volume calculating?
3. Define aqueduct

**16- Mark**

1. Estimate the quantities of following items of septic tank in fig
   1. Earth work excavation
   2. PCC in 1:5:10
   3. RCC work of roof cover slab
2. The plan and sectional elevation of a building are given. Estimate the following quantities of item
   1. Doors and windows
   2. RCC work in roof slab, lintels and sunshades
   3. Plastering internal
3. Estimate the quantities of following items of septic tank in fig
   1. Plastering.
   2. Brickwork cm 1:6.
   3. RCC work for soak pit cover.
4. Prepare a detailed estimate of a two room building with front verandah for the given drawing
   1. Earth work excavation.
   2. Ceiling plastering cm 1:6.
   3. BW in cm 1:5 in foundation and basement.
5. Estimate in detail the quantities of the following item of work in a building for two room size of (3.6m\*4.5m) and (3.6m\*4.2m) shown in fiq
   1. Earth work excavation in foundation.
   2. 2.5cm DPC.
   3. First class Brickwork cm 1:6.
6. Explain the various types of estimate.
7. Explain the four types of approximate estimate?
8. Explain in detail about septic tank and dispersion trench?
9. Details of a R.C.C retaining wall 25m long. Prepare a detail estimate for the work.
10. What are the methods of estimation of roads?







