

All rights reserved

NVQ Level 05 - Semester II		
Quantity Surveying		
Estimating & Tendering	F45T001M11	Three Hours
Answer all questions		

Question 01

- 1) What are the different types of tendering? Briefly explain one of it?
- 2) Briefly explain about the stages of tendering process?
- 3) State at least four (04) costs resulted due to the lack of health and safety environment at the construction site?
- 4) Differentiate the **measure and pay contract and lump sum contract**?

(4×5 marks=20marks)

Question 02

- 1) What are the different types of estimates in relation to the construction industry? Briefly explain at least two of them?
- 2) What are the five basic components in a unit rate?
- 3) Differentiate the terms tender and estimate?
- 4) List out six (06) factors which should be considered when calculating all in rate for the labour?

(4×5marks=20marks)

Question 03

Briefly explain all of the followings

- 1) Provisional sum
- 2) Preliminaries
- 3) Mobilization advance
- 4) Bid evaluation
- 5) All in rate for material

(5×4marks=20marks)

Question 4

Calculate unit rate per 1m² of following working items

Grade 25 reinforced concrete in suspended slab thickness = 150mm in first floor level

Use only following pricing information

1 bag cement (50kg) Rs 930.00 including delivery

Allow 1 hour unskilled for unloading and stacking of 1ton cement .

residue waste 2%on cement .

Density of cement 1420 kg/m³

1m³ sand Rs 7000.00

1m³ of 20 mm metal Rs 6500.00 including delivery

Density of sand 1600 kg/m³ (approximately)

Density of metal 1600kg /m³ (approximately)

Metal required for 1m³ of Gr 25 concrete

Cement 320kg 1m³

Aggregate 1800kg

Fine aggregate 40%

Coarse aggregate 60%

Mixing

Hourly hiring rate for mixer with operator Rs 3000.00

Mixer Capacity 3 m³ per hour

1skill labour 1unskill labour handmix 1m³ for 1hour

Wastage on concrete 10%

Placing

Hourly hiring rate of vibrator with operator Rs 1250.00

1 mason and 3 unskilled workers will place 0.25m³ per hour

All in rates for labour

Skilled labour Rs 1500.00

Unskilled Rs 1250.00

Question 05

Calculate an hourly plant all in rate for truck using the following data & information

- 1) Purchase price :Rs 3,500,000.00
 - 2) Scrap value: Rs 400,000.00
 - 3) Life of plant: 20000 Hours
 - 4) Tax and insurance: 12.5% of hourly description cost
 - 5) Repairs & maintenance: 12.5% of hourly description cost
 - 6) Lubricant oil: 5 liters per 40hours week (Rs 900/= per liter)
 - 7) Fuel: 20 liters per day (Rs 117/= per liter)
 - 8) Tyre lifespan :9000 hours
 - 9) Cost for tyre: Rs 12,500.00 (4 tyres required for the truck)
- (20marks)**