

Theory Question Bank

Unit I:

- What is estimate? What are the purposes of framing an estimate?
- What are the methods of cost estimate?
- What are the methods of stage –I (Approximate Estimate)? Explain any one in detail
- When do you prepare revised estimate?
- When do you prepare Supplementary estimate?
- What are the general rules while doing measurement based on IS1200?
Write units of measurement for any four items
- What are the principles of units of measurement?
- Explain the rules of deductions in plastering?
- What is mean by ‘Specification’? Mention the various types of specification.
- Mention purposes of ‘Specification’?
- Write various principles of Specification?
- What are the essential features of good specification?
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- Differentiate between General provision and technical provision ?
- What do you understand by ‘Schedule of Bars’?
- Write down detailed specification for
 - DPC 2.5cm CM 1:1.5:3
 - Ist class BB Masonry for superstructure (1:6)
 - Centering work RCC slab
 - Wood work for door frame
 - Earthwork exaction in hard murrum
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Unit II:

- What are the purposes of Rate Analysis?
- Describe factors affecting the rate analysis of an item.
- Explain
 - Fixed cost
 - Supplementary cost
 - Overhead cost
 - Contingencies
 - sundries
- R.C.C. work for column
- Give the percentage breakup of the cost of different items of ressi building
- Define Prime cost and Supplementary cost?
- What is CSR? On what factor it depends
- Define Task Work? State four task work of labor with the name of work.
 - Half brick wall in partition
 - White washing in double coat
 - Earthwork in excavation in rocky area
 - R.C.C. work for column
- What is the load carrying capacity of
 - Truck for bricks, cement, steel
 - Bullock cart for bricks, cement
- Calculate the quantities of different materials required for the following or for the given plan/section work out the quantities
 - Plaster 12mm thk (1:6) CM for 100 sq.m
 - Cement Concrete (1:2:4) for 10 cum
 - 1st class BB masonry (1:6) cement mortar in superstructure for 10 cum
 - Excavation
 - Frame of doors and windows in 1st class teak wood

Unit V:

- What is “valuation”? Explain various purposes of valuation
- What are the different methods of Valuation?
- State the different methods of determining depreciation. Explain any one.
- What is Sinking Fund? How it is determined?
- Differentiate between Capitalized value and Annualized value
- Differentiate between market value and Monopoly value
- Differentiate between depreciation and Obsolescence
- Differentiate between Scrap value and Salvage value
- Differentiate between Building lease and Occupational lease
- Explain Lease hold and Free hold property? Give types of lease hold properties and explain life lease
- Describe
 - Cost
 - Price
 - Value
- Define
 - Scrap Value
 - Salvage value
 - Market value
 - Book value
- ❖ Numerical

Unit V:

- Explain the role of Govt dept as a construction industry.
- Describe the line of staff in PWD and duties of each staff in brief.
- What is Tender? Explain its importance
- State essential information to be given in “Tender notice.”
- Draft a typical Tender notice to be given in local news paper for construction of rotary hospital worth Rs. 10 Lacs
- What is mean by “Breach of Contract”? Explain in details
- Explain different types of contracts? Explain any one of them.
- What are the different stage sof project approval
- What are the essential conditions of valid contract
- What are the conditions of contract termination
- Explain in short about types of leadership.
- Write short notes on
 - Security deposit and EMD
 - Lumpsum contract and Item rate contract
 - Arbitration
 - Liquidated damages
 - Types of Communication
 - Organaisation
 - Leader ship
- Differentiate between
 - Schedule A & Schedule B
 - Communicating & Motivating
 - Running Bill & Final Bill
- What do you understand by Land Acquisition Act
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Viva-Voce Question Bank

Unit I:

- Which scales are generally preferred for plan, elevation, section, site plan etc
- Explain the importance of dimensioning
- What is the importance of abbreviations
- List out the abbreviations used in building drawing
- What is the importance of graphical symbols in building drawing
- Give examples of graphical symbols used in building drawing
- What are the various types of lines used in civil engineering drawings
- Draw the symbols for the following as per IS 962
 - Brick work
 - UCR Masonry
 - Concrete
 - Tile flooring
 - Teak wood
 - Plastering
 - Reinforced concrete
 - Urinals
 - Concrete
- Explain first angle projection
- Explain third angle projection.
- What are the various requirements of drawing as per plan sanctioning authority
- Define plan, elevation, typical section with example.
- What do you mean by R.F.

Unit II:

- What is foundation plan? What it contains?
- What is the use of foundation plan in building construction
- What is the difference in foundation plan for load bearing and framed structure.
- List the requirement of submission of working drawings
- Define Site plan, Block plan, Layout plan
- Define FSI
- What are the general sizes of doors & windows
- What are the contents of area statement chart
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Unit III:

- What are the principles of planning?
- Define :
 - Orientation
 - Aspect
 - Prospect
 - Privacy
 - Grouping
 - Roominess,
 - Circulation,
 - Ventilation
- What do you mean by orientation of building?
- How do you achieve the orientation of building?
- What are the climate considerations for design of building?
- How do climate considerations affect planning?
- What is the importance of economy in building planning?
- How can we achieve the economy in building planning?
- Explain the role of Vastu-shastra in building planning.
- What is the necessary data to be collected for planning of residential building?
- Define the following types of buildings :
 - Individual Bungalow
 - Twin Houses
 - Apartments
- What points should be kept in mind while planning for earthquake resistant building.

Unit IV:

- What is the importance of building bye-laws
- What are the building bye laws
- What do you mean by mezzanine floor?
- When you will recommend mezzanine floor, balcony and porch in building.
- What are the common facilities provided for apartment?
- Draw free hand sketch of combined W.C. and Bath
- Draw free hand sketch of R.C.C. dog-legged staircase with reinforcement.
- Draw free hand sketch of R.C.C. open well staircase with reinforcement
- Draw free hand sketch of furniture arrangement in kitchen, dining, living room.
- Define Isometric view
- Define Perspective view
- State the different elements of perspective drawing.
- Differentiate between one point and two point perspective drawing
- Define :
 - Picture plane
 - Vanishing point
 - C.V.R.
 - Angle of vision
- Draw line plan for the different public buildings from the given data (Examples from previous question papers)
Ex :
 - Post office
 - Primary school building
 - Shopping Complex
 - Co=operative bank building