

## MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

Examination—July, 2020

CERTIFICATE COURSE IN CONSTRUCTION SUPERVISOR

[~~१००~~—3 iEE°E]

(BEthE NME—100)

**B°]òEjòM +hb÷EdP]òM (EIE+@2)**

- °EEdE.— (1) °E EÇ JEJME °EEdE EThEa +E E°EEd +E½p  
 (2) =VÉ E°EdòE + °E+EdEa +EEdòE {EEdE NME nEÇ EIEEIE.  
 (3) +E E°EEdE iEdEa °EEdE +EEdE EdEEd.

NME

1. (+) E°EdE VEEEdE JEJ (EdEIEEdE) (EEdE) :-

5

- (1) 100 EEdE E°E EEdE ½pEEdE ..... C°EdEEdE E°E EEdE EEdE  
 (2) ..... +EEdEEdE +EEdE EEdE EEdE {EEdE +E½p  
 (3) +EEdE EIE °EEdEEdE JEEdEEdE BEThE EEdE EEdEEdE ..... +E½p  
 (4) °E EEdEEdE EEdEEdE ..... % °EEdE ½p {EEdE JEEdE ½pEEdE nEÇ EEdEEdE  
 JEEdEEdE VEEEdE  
 (5) EEdE EEdE E°E EEdE ..... EdE EEdEEdE °E EEdEEdE VEEEdE  
 (6) EEdE EEdE °EEdE EEdEEdE EEdEEdE JEEdEEdE 10 JEEdE °EEdE .....  
 ½pEEdE °EEdEEdE EdEEdE.

(E) SEdE EdE EEdE EEdE +E½p (EdEIEEdE) (EEdE) :-

5

- (1) ½pEEdE JEEdEEdE BEEdE EdE EEdEEdE nEEdE JEEdE +°EIEEIE.  
 (2) EEdE EEdE JEEdEEdE EEdEEdE EdEEdEEdE EEdEEdE VEEEdE  
 (3) +EEdEEdE °EEdE +EEdEEdE +EEdE °EEdEEdE +EEdE +SEEdE +E½p  
 (4) EEdE +EEdEEdE {EEdEEdE °EEdEEdE EEdEEdE EEdEEdE +E½p.  
 (5) EEdEEdE {EEdEEdE BEThE EdEEdE JEEdEEdE nEEdE EEdE  
 (6) EEdEEdE nEEdEEdE +EEdEEdE +EEdEEdE EEdEEdE VEEEdEEdE VEE> JEEdEEdE

(Ed) JEEdEEdE EEdEEdE BEEdE +E½p (EdEIEEdE) (EEdE) :-

5

- (1) Lime (2) Cement (3) MHADA  
 (4) Pointing (5) Wash-basin (6) PWD.

(b) JEEdEEdE VEEEdE VEEEdE :-

5

' + ' ME]ò

- (1) iEdEEdE EdE EEdE  
 (2) EdE EEdE EEdE  
 (3) +EEdEEdE °EEdE EdEEdE  
 (4) EEdEEdE EEdEEdE (Lumpsum)  
 (5) EEdEEdE =nEEdE nEEdE (EdEEdE)

' E ' ME]ò

- (+) EEdEEdE EdEEdE  
 (E) EEdEEdE EdEEdE  
 (Ed) °EEdEEdE {EEdEEdE  
 (b) EEdEEdE °EEdEEdE EdEEdE  
 (<) nEEdE  
 (i) EEdEEdE EEdEEdEEdEEdE.

[=+E] ME {E½p



**(ENGLISH)**

[ TIME ALLOWED—3 HOURS ]

(MARKS—100)

**ESTIMATING AND COSTING (THEORY-II)**

- Instructions.*—(1) All question are *Compulsory*.  
 (2) Figures to the right indicates full marks.  
 (3) Illustrate your answers with neat diagrams wherever necessary.

**Marks**

1. (a) Fill in the blanks (any *five*) :— 5
- (i) 100 bags of cement means ..... cubic meter cement.
  - (ii) ..... it is more rational method of estimate.
  - (iii) The percentage of earned money is ..... of total cost.
  - (iv) Generally ..... % amount added for water charges in rate analysis.
  - (v) Nominal muster-roll is used for ..... of Labours.
  - (vi) After accepting tender contractor submits 10 per cent amount as a .....
- (b) State whether *true* or *false* (any *five*) :— 5
- (i) Nominal muster rolls available in two copies.
  - (ii) Work order is given to contractor after submission of tender.
  - (iii) Approximate estimate is more accurate than detail estimate.
  - (iv) Chief engineer is at the the top of P.W.D. organisation.
  - (v) Measurement-sheet shows total expenditure on work.
  - (vi) Extra item can added in annual repairs estimate.
- (c) State units of measurement (any *five*) :— 5
- (i) Lime                      (ii) Cement                      (iii) MHADA
  - (iv) Pointing                      (v) Wash-basin                      (vi) PWD.
- (d) Match the pairs :— 5
- | ‘ A ’ Group               | ‘ B ’ Group                    |
|---------------------------|--------------------------------|
| (i) Piece work contract   | (a) Small Works                |
| (ii) Department of Labour | (b) Particular works           |
| (iii) Item rate contract  | (c) Supply of materials        |
| (iv) Lumpsum contract     | (d) Non-government works       |
| (v) Quotation             | (e) Rates quoted by contractor |
|                           | (f) Small and special repairs. |

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2. Attempt any *two* of the following :— 16
- (a) What points observed while drafting specification ?
  - (b) Abstract sheet is used for rate calculation.
  - (c) Define estimate and its purpose.
  - (d) Which points to be observed on framing of tender notice ?
3. Attempt any *two* of the following :— 16
- (a) Calculate the quantities of material for RCC column size 25 cm.× 25 cm.× 2m.
  - (b) Plaster in superstructure.
  - (c) Enlist documents for tender preparation.
  - (d) Draft a detailed specification for 12 mm thick plastering.
4. Attempt any *two* of the following :— 16
- (a) Draft a specifications for I.P.S. flooring.
  - (b) Prepare a rate analysis for 10mm. 2 coat plastering with C.M. (1:3).
  - (c) Explain the Long Wall–Short Wall method.
  - (d) Define rate analysis and its necessity.
5. Write short notes on (any *four*) :— 16
- (a) Work order
  - (b) Excavation in soft soil
  - (c) Rate List method
  - (d) First and final payment of Bill
  - (e) Painting.
6. Attempt any *two* of the following :— 16
- (a) What are the advantages and disadvantages of departmental method of execution of work ?
  - (b) Give various conditions of contract.
  - (c) Differentiate between the Tender and Contract.
  - (d) Write a notes on Service Unit Method and Carpet area.
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