

**April 2019**

Time – Three hours  
(Maximum Marks: 75)

(Sketch 'C' and 'D' to accompany)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.  
Answer any FOUR questions from the remaining in each PART – A  
and PART – B

(2) Answer division (a) or division (b) of each question in PART – C.

(3) Each question carries 2 marks in PART – A, 3 marks in Part – B  
and 10 marks in PART – C.]

PART – A

1. Name the various types of specification.
2. What are the necessities of report writing?
3. Define gross income.
4. What is economical rent?
5. Define trenches.
6. Define deck slabs.
7. What is the use of septic tank?
8. Define culvert.

PART – B

9. Differentiate general specification and detailed specifications.
10. What are the different document accompanying the report?
11. What are the purposes of valuation?
12. What are the factors influencing the rent of a building?
13. What are the works involved in the form work for deck slabs?
14. What are the works involved in the laying of concrete roads?
15. Write any three items of works involved in the laying of water bound macadam road.
16. Write a note on shallow recharge well.

PART – C

17. (a) Write a detailed specification for cement concrete flooring.

(Or)

- (b) Write a report to accompany the estimate for the providing drinking water supply to a village.

18. (a) Find the value of free hold property with the following particulars: Area of land  $600\text{m}^2$ , Built up area =  $200\text{m}^2$ , Gross annual rent = ₹. 72,000, Permissible built up area = 50% of area of plot, Estimated life of structure = 50 years, Estimated rate of open land = ₹. 800 per  $\text{m}^2$ , Interest on capital = 8% and interest on redemption of capital 5%, Outgoings = 30% of gross rent.

(Or)

- (b) On a plot of land costing ₹. 9 lakhs, a building has been constructed at a total cost of ₹. 28 lakhs. The building consists of 4 flats for four tenants. The owners expects a net return of 5% over the investment amount. If the outgoings are ₹. 1 lakh, find the reasonable rent for a flat.

19. (a) Analyse and determine the rates for the following items of work with the given data. Supplying and fixing in position CI man hole covers with CI farness (Heavy duty) of size  $60\text{cm} \times 60\text{cm}$  of best approved quality as per standard specification etc., complete complying with standard specifications.

Materials required:

Man hole cover	- 1 no.
Cement mortar 1:3	- $0.004\text{m}^3$
Mason I <sup>st</sup> class	- 0.4 no.
Mason II <sup>nd</sup> class	- 0.40 no.

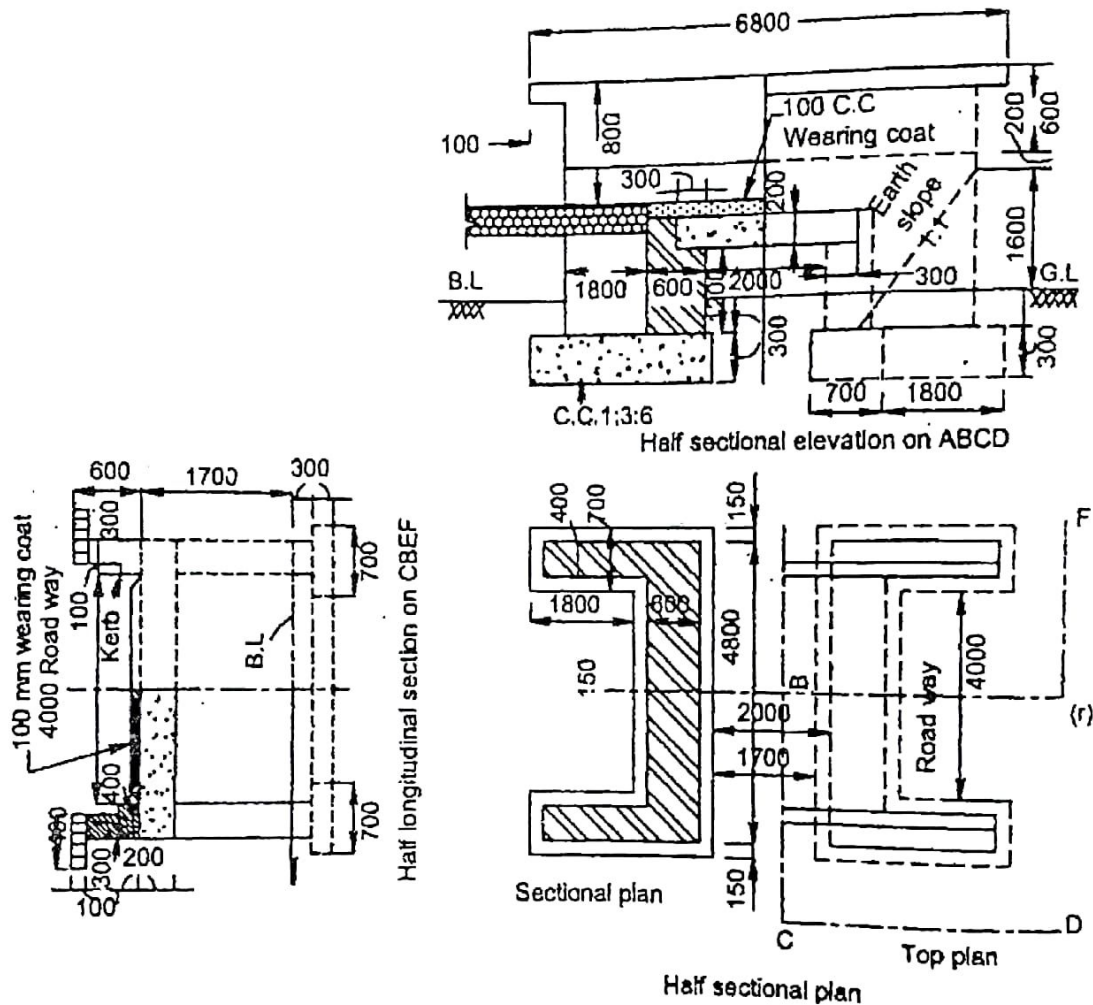
Cost of materials:

Man hole cover	- ₹. 2500/each.
Cement	- ₹. 6000/ton.
Sand	- ₹. 500/ $\text{m}^3$
Mason I <sup>st</sup> class	- ₹. 500/each/day.
Mazdoor I <sup>st</sup> class	- ₹. 400/each/day.
Mixing charge	- ₹. 150/ $\text{m}^3$

(Or)

# Sketch 'D' to accompany QP Code: 503

## SLAB CULVERT



NOTE. ALL DIMENSIONS ARE IN mm