

BARCH
(SEM V) THEORY EXAMINATION 2018-19
ESTIMATION AND SPECIFICATIONS

Time: 3 Hours**Total Marks:100****Notes:** Assume any Missing Data.**SECTION A****1. Attempt all parts. Write answer of each part in short. (2X 10=20)**

- (a) Write down any four diameter of steel bars used in building construction
- (b) Define measurement book
- (c) Explain Soaking of brick
- (d) Why store and stock of building material required. Explain in brief
- (e) What is ratio of materials in R.C.C used in lintel of door?
- (f) Explain – Daily labour.
- (g) Write down any four characteristics of 2nd - class building.
- (h) Explain the importance of cash book
- (i) What is curing
- (j) What do you understand by Bill and Voucher in accounts?

SECTION B**2. Attempt any five questions from this section. (10X5=50)**

- a) What are the data required for estimate of a building? Explain
- b) Explain the role of contingencies in estimation.
- c) What is analysis of rate? Explain the purpose of rate of analysis.
- d) Define specification and its types.
- e) Why muster roll is necessary. Discuss in details
- f) What is Plinth area estimate and Revised Estimate?
- g) To find quantity of different materials for 10 cu. M of cement concrete in 1:3:6 proportion
- h) Define the salient features of out-turn or task-work of the labourer.

SECTION C**3. Note: Attempt any two questions from this section. (15X2=30)**

- a) What is estimation? Define any two methods of estimation in detailed with an example.
- b) Write detailed specifications for any three
 - (i) Cement concrete in flooring
 - (ii) Damp proof course in plinth
 - (iii) R.C.C. work in building slab
 - (iv) Aggregates (fine & coarse) used in brick work in super structure of building
 - (v) Earth work in excavation.

c) Estimate quantities of any three of the following item of works in the building as per drawing shown in the fig. below. Assume missing data.

- (i) Brick work in super structure and foundation
- (ii) Lime concrete work in foundation
- (iii) Earth work in excavation
- (iv) Tiles flooring including skirting
- (v) R.C.C work in roof slab and lintel

Data:-

- R.C.C. band at lintel level 150mm
- Window sill level 900mm
- Lintel height 2100mm
- Height of floor to ceiling height- 3000 mm
- R.C.C roof slab thickness- 150 mm

Schedule:-

All walls 300mm thick

Door "D" 1000 mm X 2100 mm

Window "W" 1000 X 1200 mm

Wood frame both D & W 100mm X 150mm

