Printed Pages: 02 **Subject Code: NAR505**

Paper Id: **181515** **Roll No:** | | | | | | | | | | |

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.

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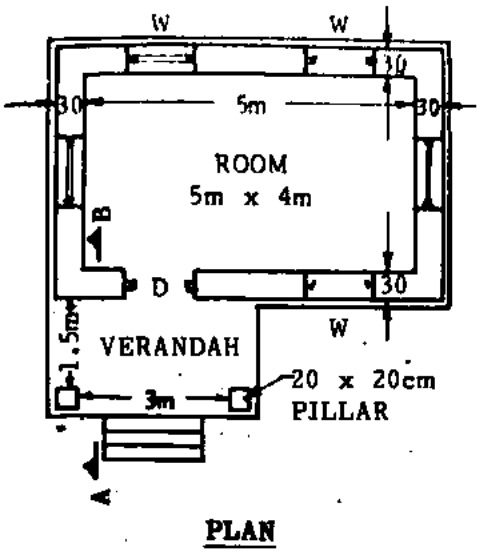
c) Estimate quantities of any three of the following item of works in the building as per drawing shown in the fig. below. Assume missing data.

(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

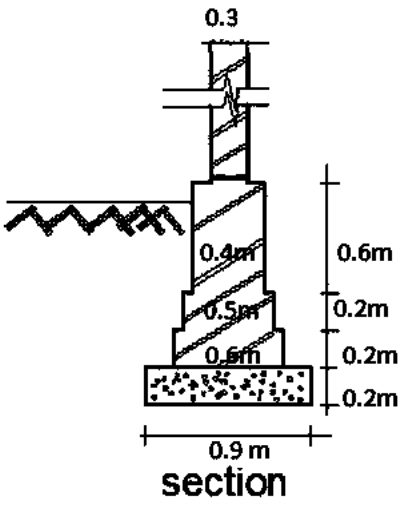
Data:-

- 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 X2100 mm
Window "W" 1000 X 1200 mm
Wood frame both D & W 100mm X 150mm



PLAN



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