

KATHMANDU UNIVERSITY
End-Semester Examination
August, 2018

Marks scored:

Level : B.Tech.

Year : III

Exam Roll No. :

Registration No.:

Time: 30 mins.

Course : ENVE 311

Semester: II

F.M. : 20

Date AUG 15 2018

SECTION "A"

[20 Q. × 1 = 20 marks]

Encircle the correct answer.

1. Brick walls are measured in sq. m if the thickness of the wall is
a. 11 cm b. 15 cm c. 20 cm d. 25 cm
2. The plinth area of a building DOES NOT include
a. Area of the walls at the floor level
b. Internal shaft for sanitary installations up to 2 sq m. in area
c. Lift and wall including landing
d. Area of cantilevered porch
3. The brick work is not measured in cu m in case of
a. One or more than one brick wall b. Brick work in arches
c. Reinforced brick work d. Half brick wall
4. Pick up the correct statement regarding the centre line method of estimating a building
a. Product of the center line of the walls and area of cross-section of any item, gives total quantity of the item.
b. The centre line is area regarding total length times the cross sectional thickness.
c. The centre line length is reduced by half the layer of main wall joining the partition wall.
d. Centre line method takes into account the sum of longer length and shorter length.
5. Pick up the excavation where measurements are made in square metres for payment.
a. Ordinary cuttings up to 1 m
b. Surface dressing up to 15 cm depths
c. Excavation upto depth of 1.5m and 30m lead
d. Excavation for volumetric works
6. In long and short wall method of estimation, the length of long wall is the centre to centre distance between the walls and
a. Breadth of the wall
b. Half breadth of wall on each side
c. One third breadth of wall on each side
d. One fourth breadth of wall on each side
7. Due to change in price level, a revised estimate is prepared if the sanctioned estimate exceeds
a. 2.0 % b. 2.5 % c. 4.0 % d. 5.0 %

8. The most reliable estimate is
 a. Detailed estimate
 b. Preliminary estimate
 c. Plinth area estimate
 d. Cube rate estimate
9. Pick up the INCORRECT statement from the following:
 a. Dimensions are measured to the nearest 0.01 m
 b. Areas are measured to the nearest 0.01 sq.m
 c. Cubic contents are measured to the nearest 0.1 cum
 d. Weights are measured to the nearest 0.001 tonnes
10. The unit of measurement is per quintal for the following:
 a. Collapsible gates with rails
 b. Rolling shutters
 c. Expanded metal wire netting
 d. M.S. reinforcement of R.C.C. works
11. The order of booking dimensions is
 a. Length, breadth, height
 b. Breadth, length, height
 c. Height, breadth, length
 d. None of these
12. Pick up the item of work NOT included in the plinth area estimate
 a. Wall thickness
 b. Room area
 c. W.C. area
 d. Courtyard area
13. The minimum width of a septic tank is taken as
 a. 70 cm
 b. 75 cm
 c. 80 cm
 d. 90 cm
14. The item of steel work which is measured in sq.m is
 a. Reinforcement works
 b. Rolling shutter
 c. Structural steel works
 d. Binding works
15. The damp proof course (D.P.C.) is measured in
 a. Cub. m
 b. Sq. m
 c. Metres
 d. Kilogram
16. What annual sinking fund at 4.5% must be invested to produce Re. 1/- at the end of 20 years?
 a. 0.0219
 b. 0.0319
 c. 0.0419
 d. 0.519
17. How many nos. of bricks are there in 1 m^3 of brickwork?
 a. 500
 b. 550
 c. 600
 d. 650
18. Future life of Building is 15 years and the rate of interest is 7% on capital and 4% for sinking fund. The years purchase is
 a. 6.33
 b. 7.33
 c. 8.33
 d. 9.33
19. Pick up the correct statement from the following:
 a. Pointing is measured in sq.m
 b. Plastering is measured in cu.m
 c. Glazing is measured in per.m
 d. Painting is measured in per m
20. For 12 mm thick cement plaster with ratio of 1:6 in 100 sq.m Brick work, quantity of cement is
 a. 0.1274 m^3
 b. 0.2274 m^3
 c. 0.3274 m^3
 d. 0.4274 m^3