

JK Lakshmipat University Jaipur

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination, ~~MAY~~ 2019
B. Tech. in Civil Engineering, Semester VI

Roll No.....

Course Code : CE 609 Estimation Costing and
Evaluation Engineering

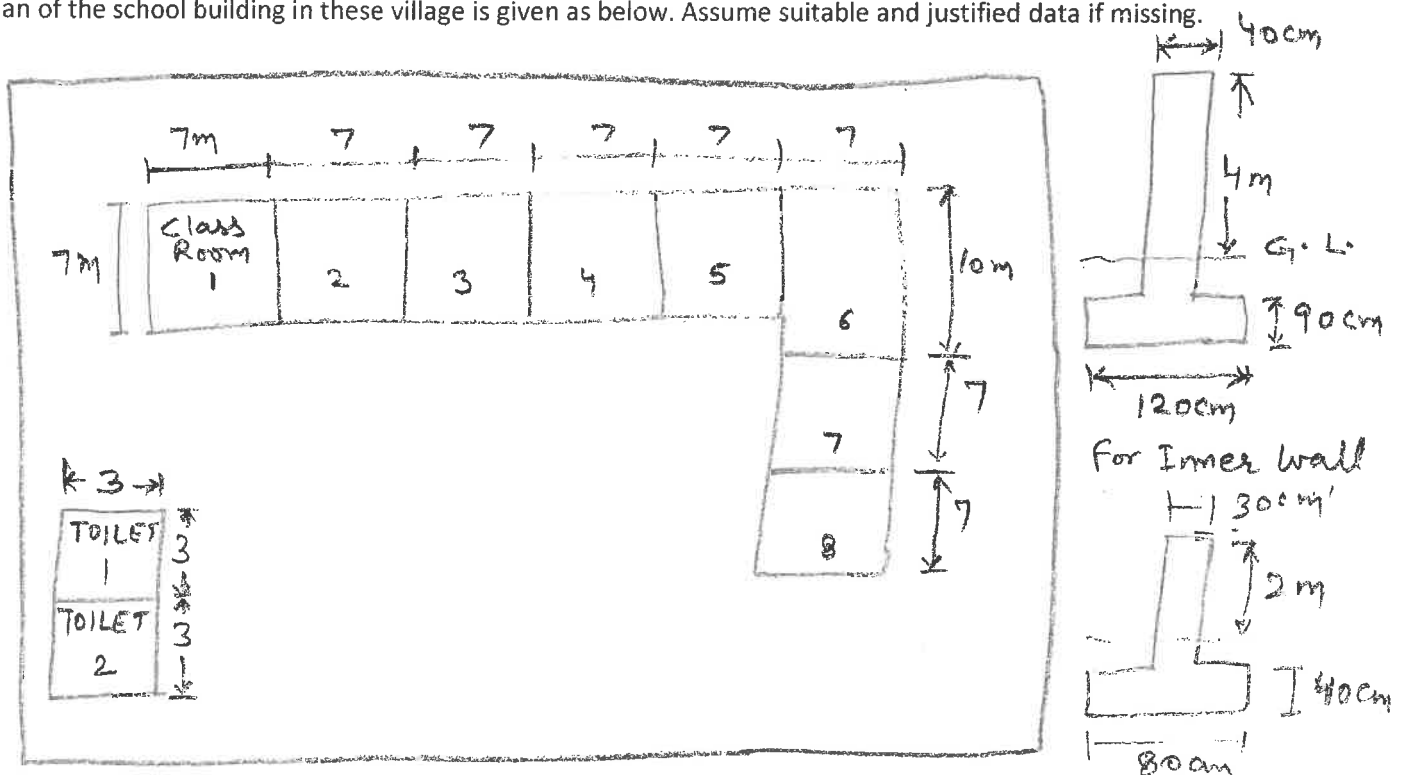
Time: 3.0 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

Under the National Education mission central government decide to construct school buildings in each village. Out of 200 villages of Phagi Block of Jaipur (around 40 Km from Jaipur), 10 villages don't have the school building. The plan of the school building in these village is given as below. Assume suitable and justified data if missing.



Q. 1 What are the different type of estimates that can be prepared for this project?

10 (LO 1)

Q. 2. Take measurement of quantity and cost of the work (as per C.S.R.) for foundation, walls, roof, floor, parapet wall, and plaster.

30 (LO 2, 3, 4)

These buildings are located in the various villages of the Phagi Block.

Q. 3. On what factors the cost of a building in a village depends.

10 (LO 5)

Q. 4 A concrete pump is used in the construction of these buildings. The initial price of this is Rs. 45,00,000. It has a useful life of 12 Yrs. The estimated salvage value of the concrete pump at the end of useful life is Rs. 8,00,000. Calculate the annual depreciation and book value of the concrete pump using straight-line method, double-declining balance method and Sum of years digits (SOYD) depreciation method.

20 (LO 5, 6)

Q. 5 Draft a tender notice for these 10 schools (give name of the villages as per your choice).

15 (LO 5)

Q. 6 Jaipur ring road and Dravyavati river front project are the mega projects of Rajasthan Government. However, these projects are not meet the deadlines so many times. Describe in detail the projects and reasons due to which these projects are delayed.

15 (LO 5)