



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:III
Class:SY	Program:B.Tech Civil Engineering
Branch Code:CIV	Pattern:2023
Name of Course:Architectural Planning and Design	Course Code:2304203
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1 Which type of foundations is suitable in following conditions? i. Black cotton soil ii. Column is at the edge of plot Explain the reason (6) CO1

Question No. 2

- 2 Draw two point perspectives for rectangular block of 2m x 2m x 2m. The block is resting on picture plan at an angle of 30^0 - 60^0 . Consider suitable data if needed. (6) CO2

Question No. 3

- 3.a) a) Design of dog legged staircase for 3.4m floor to floor height with neat sketch. Assume suitable data if required. (6) CO3

OR

- 3.b) b) Design of open well Staircase for 4.2m floor to floor height with neat sketch. Assume suitable data if required. (6) CO3

- 3.c) Write short note on Green building. (5) CO3

OR

- 3.d) Explain Green building rating system: GRIHA (5) CO3

- 3.e) Draw the line plan of Bank. (5) CO3

OR

- 3.f) Draw the line plan of Hotel. (5) CO3

Question No. 4

- 4.a) Explain i)One pipe system ii)Two pipe system. (6) CO4

OR

- 4.b) List out the types of pointing and describe V- groove pointing. (6) CO4

- 4.c) Write a short note on Mivan construction technique. (5) CO4

OR

- 4.d) Write a short note on Autoclave Aerated block. (5) CO4
4.e) Explain any four plumbing devices in water supply and drainage system. (5) CO4

OR

- 4.f) Explain any four component of Paint. (5) CO4

Question No. 5

- 5.a) Write short note on Transferable Development Right. (6) CO5

OR

- 5.b) Explain RERA ACT in detail? (6) CO5
5.c) Write a short note on completion certificate and occupancy certificate. (5) CO5

OR

- 5.d) Write short note on necessity of town planning and Explain land zoning. (5) CO5
5.e) In a plot area of 650m^2 where the FSI is 1.5. Calculate the new built-up area if 150m^2 area is surrender for road widening (5) CO5

OR

- 5.f) In a plot area of 700m^2 where the FSI is 1.2 calculate the new built-up area if 200m^2 area is surrender for road widening. (5) CO5

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