



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

InSem Examination-I Winter2024	
Exam Seat No.:	
Academic Year:2024-2025	Semester:III
Class:SY	Program:B.Tech
Branch Code:CIV	Pattern:2023
Name of Course:Architectural Planning and Design	Course Code:2304203
Max. Marks:30	Duration:1:15 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 1 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 a) Explain the following terms: Frog, Bat, Queen closer, Header, Stretcher, Beveled Closer, King Closer with neat sketch (7) CO1

**Question No. 2**

- 2 a) Differentiate between stone masonry and brick masonry with sketch and explain the characteristic of Good Formwork (8) CO1

**OR**

- 2 b) List out all the buildings according to NBC and explain Industrial building also explain any four components of six panel double shutter door. (8) CO1

**Question No. 3**

- 3 a) Explain Marginal Distance, Building Line, Control Line with neat sketch and Purpose of providing the same (7) CO2

**Question No. 4**

- 4 a) Explain Built up area and Carpet area in detail and solve following example. A plot owner proposed a G+1 storeyed structure with 200m<sup>2</sup> built up area on each floor. The plot size is 15m x18 m. Find FSI utilised, if all side margins are 1.5m. If the allowable FSI in area is 1.5, state whether the plan will be sanctioned or not. (8) CO2

**OR**

- 4 b) Explain Necessity of building byelaws in detail and solve following example. A plot owner proposed a Ground floor structure with 100m<sup>2</sup> built up area. The plot size is 10m x10 m. Find FSI proposed, if all side margins are 1m. If the allowable FSI in area is 1. State whether how much FSI can be utilised? (8) CO2

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