



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

	InSem Examination-IWinter 2023		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester:III	
	Name of Programme:B.Tech (Civil Engineering)	Pattern:2022	
	Name of Course:Architectural Planning and Design	Course Code:CIV222004	
	Max. Marks:30	Duration:1 hr	

	<p>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.</p> <ol style="list-style-type: none">1. This question paper contains 2 pages.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	
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Question No. 1 Attempt following Question

a)

Explain the following terms :

i)Bond,

ii)Through stone,

(5) CO1

iii)Stretcher,

iv)Header

OR

b) Define substructure and describe any two shallow foundations (5) CO1

c) Write all types of bonds in Brick Masonry and Explain Flemish bond and its type along with its diagram (5) CO1

OR

- d) Differentiate between stone masonry and brick masonry with sketch (5) CO1
- e) Define Formwork and draw neat sketch for formwork of beam (5) CO1

OR

- f) Differentiate between Single Scaffolding and double Scaffolding with diagram (5) CO1

Question No. 2 Attempt following Question

- a) Explain the following principles of building planning
 - i. Circulation
 - ii. Privacy (5) CO2
 - iii. Roominess

OR

- b) Explain marginal distance and the Purpose of providing marginal distance. (5) CO2
- c) Explain Plinth area and Floor area in detail (5) CO2

OR

- d) Explain requirement of the open space as per given in DC rules. (5) CO2
- e) Explain the necessity of Building Bye Laws in detail. (5) CO2

OR

- f) A plot owner proposed a G+1 storey structure with 180m^2 built up area on each floor. The plot size is $15\text{m} \times 17\text{m}$. Find FSI proposed, if all side margins are 1.5m . If the allowable FSI allowed in area is 1.5 , state whether the plan will be sanctioned or not. (5) CO2