BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: B.ARCH SEMESTER: VII/ADD BRANCH: ARCHITECTURE SESSION: MO/2023

SUBJECT: AR401 HOUSING & SETTLEMENT SYSTEMS

TIME: 3 Hours FULL MARKS: 50

INSTRUCTIONS:

- 1. The question paper contains 5 questions each of 10 marks and total 50 marks.
- 2. Attempt all questions.
- 3. The missing data, if any, may be assumed suitably.
- 4. Before attempting the question paper, be sure that you have got the correct question paper.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a) Q.1(b)	Discuss the evolution of housing policies in India post-independence. City A is a new and developing city, with a population of 8,58,638 in 2021. Calculate the projected population in 2051 if the decadal population is Year Population 1961 93,325 1971 1,56,529 1981 2,09,446 1991 3,32,253 2001 5,21,763 2011 6,59,334	[5] [5]	CO 2 4	BL 1 3
Q.2(a)	Define neighborhood. Discuss the neighbourhood model proposed by C.A. Perry	[5]	1	2
Q.2(b)	with a suitable diagram. For District X, if the Net migration rate is 264, the number of emigrants is 1,56,897 in 2023, with a mid-year population of 13,46,583. Calculate the number of immigrants.	[5]	5	3
Q.3(a) Q.3(b)	Define slums. Discuss the various types of slum categorisation in India. Write short notes on (i) PMAY (ii) RAY	[5] [2.5+2.5]	3 2	1
Q.4(a)	 (i) For a neighbourhood of 6 square kilometres, the commercial, institutional, green spaces, and road comprise 3%, 5%, 20% and 10%, respectively. The net population density is 750P/Acre. Calculate the total population of the neighbourhood and its gross population density. (ii) For a group housing project, if the plot size is 20 X 30 m, the permitted ground coverage is 40%, and the FAR is 1.5. Calculate the maximum number of floors permitted if the developer utilises 1/3rd of the permitted ground coverage. 	[3+2]	5	3
Q.4(b)	Discuss any three models of public-private partnership for affordable housing in India.	[5]	3	2
Q.5(a)	Write short notes on (i) AMRUT (ii) NULM	[2.5+2.5]	2	1
Q.5(b)	Enumerate the permissible, restricted and non-permissible uses for Commercial and Institutional land uses.	[5]	3	2

:::::21/11/2023:::::M