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MANIPAL UNIVERSITY

SIXTH SEMESTER B. ARCH. DEGREE EXAMINATION - MAY 2016

SUBJECT: ARCHITECTURAL DESIGN VI (ARC-302)

Friday, May 27; Saturday, May 28 and Sunday, May 29, 2016 (Friday 10:00-16:00; Saturday 10:00-13:00 and 14:00-17:00; Sunday 10:00-13:00 and 14:00-17:00)

Time: 18 Hrs. (in three days)

Max. Marks: 50

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- The first sitting of six hours is continuous at the end of which the candidate shall submit the drawings as indicated under "First day submission". This submission will not be returned to the candidates. Thus candidates are requested to retain all the necessary information and a copy of the first day's submission.
- Major deviations in the design developed and submitted on the "first day submission" will not be accepted.
- No sheet shall be taken out or brought into the examination hall.
- Assume suitable data wherever necessary and logically state the same.
- Z Candidate can choose the appropriate medium of presentation.
- The design has to fulfill the requirements that are requested in terms of areas or the number of users.

Design of a SOS Childrens' Village

Introduction

Starting off as an International NGO in the 1940s in Austria, SOS Children's Villages have spread globally with the main purpose to provide orphaned and destitute children a "permanent family" set up till they are old to fend for themselves by providing constant care and accommodation. The children are also given education and skills in order to lead an independent life in future. In the SOS Villages, the children live with their SOS Mother and brothers and sisters (6 to 12 boys and girls of different ages) in their own house. Natural siblings are not encouraged to be separated. The entire SOS village facility is managed by a qualified Village Director who, together with the SOS Aunts and the educational staff, gives support and advise the SOS Mothers. The village community forms an extension to the SOS family and serves as a link with the community. A typical family set up in the developing world will comprise of ten children dwelling within a house under an SOS mother. Ten to forty of such houses are grouped together to make up a "Village" with shared facilities. Family groups once formed are kept together as a priority.

DESIGN BRIEF

The design for the proposed SOS Children's Village is at Alevoor Road, Manipal, as there is much potential for the orphaned and destitute children from the nearby villages in need of care and basic education.

Building Programme:

10-12 Family Houses each accommodating 10 children and an SOS mother 1 SOS Village Director's House

	1 Community Area (SOS Aunt's House, Guest House, Chi. Medical Clinic and Dining Hall) 1 Village Facility (Administration, Multipurpose Building, W Workers' Residences) Outdoor Spaces	
	Play Areas	
	Sports Fields	
	Area Programme:	
1.	FAMILY HOUSES (10 to 12 nos.) 130 sq. m max.	
	Room Programme:	
	1 Living/Dining area	
	1 Kitchen with store	Take an entities with an
	1 COC Moth only many	
	2-3 Children's rooms 1 Bathroom area (2 toilets, 2 showers, wash basin)	
	Store Room	
2.	SOS VILLAGE DIRECTOR'S HOUSE 100 sq. m max.	
	Room Programme:	
	1 Living/Dining Area	
	1 Kitchen with store	
	3 Bedrooms	
	2 Bathrooms (1 toilet, 1 shower, wash basin)	
	COMMUNITY AREA	
3.	SOS AUNT'S HOUSE 100 to 140 sq. m max.	
	Room Programme:	
	1 Living area with kitchenette	
	3-5 SOS Aunts' rooms	
	1 Guest toilet	
,	Sanitary unit with 2 showers and 2 toilets	
*	Storeroom	
4.	GUEST HOUSE 60 to 80 sq. m may	
7.	GUEST HOUSE 60 to 80 sq. m max. (To accommodate two to three guests)	
	D D.	ad seeka territoria
	1 Living and with hitch coatts	
	2-3 Guest rooms (with own small sanitary area each)	
5.	MEDICAL CLINIC 60 to 80 sq. m max.	
	Room Programme:	
	1 Consultation Room	
	1 Treatment Room	
	1 Store Room	
	1 Isolation Ward (3 beds)	
	Toilets	

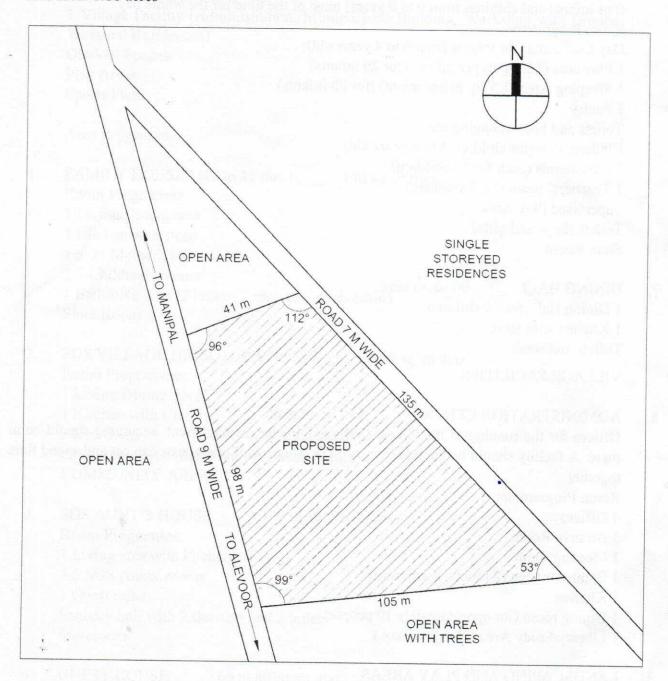
6.	CHILD DAY CARE CENTRE & KINDERGARTEN 150 sq. m max.
	(For infants and children from 0 to 6 years) most of the time for the whole day. Room Programme:
	Day Care Area (for infants from 0 to 4 years old):
	1 Play area (1.2 sq. m per infant) (for 20 infants)
	1 Sleeping Area (1.5 sq. m per infant) (for 20 infants)
	1 Pantry *
	Toilets and baby changing area
	Kindergarten (for children 4 to 6 years old):
	2 Classrooms (each for 20 children)
	1 Teachers' room (for 2 teachers)
	Supervised Play Area
	Toilets (boys and girls)
	Store Room
7.	DINING HALL 90 sq. m max.
	1 Dining Hall (for 50 children)
	1 Kitchen with store
	Toilets and wash
	VILLAGE FACILITIES
8.	ADMINISTRATION CENTRE 130 sq. m max.
	Offices for the running of the village (Village Director, management, accounts) should be in
	there. A facility should be included where SOS Aunts, staff and guests can eat and spend time
	together.
	Room Programme:
	4 Offices
	1 Archive Room
	1 Meeting room
	1 Bathroom area (2 toilets, washbasin)
	1 Kitchen
	1 Dining room (for approximately 10 people)
4.	1 Library/Study Area (25 sq. m max.)
9.	LANDSCAPING AND PLAY AREAS
	Outdoor Spaces (To allow Supervision and Visual Control)
	Semi-Open and Open Play Areas
	Sports Field/ Ground
	RULES AND REGULATIONS:
	i) Site area: 1.5 acres
	ii) Site Coverage: 50%
	iii) F.A.R: 1.5 maximum & Setbacks: 2 m in the Front side and 1 m on all other sides.
	iv) Toilet requirements shall be as per NBC
	Note: Assume site to be free of natural contours and existing vegetation. The given areas are

1. Design shall be barrier free

and state the same.

2. Materials, structural systems, and services shall be an integral part of design

minimum requirements and indicative. Assume any other data required with valid reasoning



Focus: Design process, design development, and use of sketches to explain design scheme

A. FIRST DAY SUBMISSION

Star	ge 1: Design Programme:						
Staş	Users and activities						
	Space and area requirement (facilitation	on, ambience, etc.)					
	Design issues						
	Design guidelines						
-	Design guidennes	(5 marks)					
Star	ge 2: Site Analysis & Zoning:						
ota;		te surroundings, etc.)					
	Context (accessibility, site features, site surroundings, etc.) Climate						
	Building rules and regulations (if applicable)						
	Zoning showing major uses and circulation along with reasoning for the same						
	Site structure plan Bubble diagrams on site, Horizontal a	and vertical zoning (if applicable)					
	Bubble diagrams on site, fromzontar a	(10 marks)					
Cto	ge 3: Concept Development:						
ota;		(related to function form structural systems.					
	Statement / sketches of concept (related to function, form, structural systems, technologies, materials, environment, aesthetics, philosophy, theme, details, character,						
	heritage, culture, local influences, etc						
	Sketches showing initial design ideas	/ experience levels based on the concept					
	On site volume/ form development v	with schematic sections based on function and user					
	On site volume/ form development with schematic sections based on function and user experiences, skyline and relationship of built – unbuilt spaces.						
	experiences, skyline and relationship	of built – unbuilt spaces. (5 marks)					
		· (5 marks)					
n	EINAL CUDMICCION (DETAILE)	D DESIGN)					
В.	FINAL SUBMISSION (DETAILE)	D DESIGN)					
Sta	ge 4: Design Development:						
	Conceptual design(s)						
	Finalization of design - Complete wit	th reasons/logics for design decisions					
	Refinement of final design	to (mit) he dismortus to participa graphed calls					
		(5 marks)					
Sta	ge 5: Design Scheme:						
-		road network, circulations, open and built spaces,					
	parking and other important features)	- 1: 200					
-	Floor plans with furniture layout	- 1: 100					
-	Prominent elevation	- 1: 100					
-	Detailed major section	- 1: 100					
-	Views						
		(5+5+2+4+4=20 marks)					
C.	BLOCK MODEL using thermocol/	white ivory card sheets/ white foam sheet shall be					
	made at any of the stages 3, 4, or 5.						
		(5 marks)					