



Sanjay Ghodawat University, Kolhapur

2018-19

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of SY B.Tech

Course Code: CET214

Course Title: Building Planning
and Drawing

Semester – II

Day and Date Saturday
25-05-2019

End Semester Examination
(ESE)

Time: Max Marks: 100
10.30 am to 1.30 pm.

Instructions:

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1	Solve any Two	Marks	Bloom's Level	CO
a)	Explain graphical and numerical scale in details.	07	L ₂	CO1
	OR			
a)	Explain need and importance of building drawing in civil engineering.	07	L ₂	CO1
b)	Prepare a line plan for a 2 BHK residential building using following details. Scale to be used: 1:100 Unit Details: 1. Drawing Hall: 4x3m 2. Kitchen: 3.5x3.5m 3. Children Bedroom: 3x3m 4. Master Bedroom: 3.5x3m 5. Bathroom: 1.2x1.8m 6. W.C: 1.2x1.2m	08		CO2
	OR			
b)	Prepare a line plan for primary health center using details given below, Scale: 1:100 Units to be covered: 1. Compounders room 2. Doctors Cabin 3. Waiting Area 4. Medical Store	08	L ₃	CO2
Q.2	Solve any Two			
a)	List the various principles of planning and discuss any two in	07	L ₃	CO3

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details.

OR

- | | | | | |
|----|---|----|----------------|-----|
| a) | Explain aspect and prospect principle with neat sketch. | 07 | L ₁ | CO3 |
| b) | Write objective and importance of building bye-laaws. | 08 | L ₃ | CO4 |

OR

- | | | | | | |
|-----|----------------------|--|----|----------------|-----|
| Q.3 | b) | Write a note on Airplane rule and give its advantages. | 08 | L ₃ | CO4 |
| | Solve any Two | | | | |
| | a) | Define the following: | 08 | L ₁ | CO1 |
| | | i. Lintel | | | |
| | | ii. Parapet | | | |
| | | iii. Roof | | | |
| | | iv. Sunshade | | | |
| | b) | State the standard guidelines for building drawing. | 08 | L ₂ | CO2 |
| | c) | Write a short note on following principle of planning: | 08 | L ₂ | CO3 |
| | | i. Economy | | | |
| | | ii. Furniture requirement | | | |
| | d) | Discuss in brief about open space requirement. | 08 | L ₂ | CO4 |

Q.4 **Solve any one**

- | | | | | |
|----|--|----|----------------|-----|
| a) | Draw a detailed floor plan and its elevation for a residential bungalow using principles of planning and building bye-laws with following details:
Scale: 1:100
Min. Built-up area: 100 sq.m | 30 | L ₃ | CO5 |
| b) | Prepare a floor plan and elevation for a Bank building with following details.
Scale: 1:100
Units to be covered:
i. Waiting Area
ii. Staff Counters
iii. Cashier room
iv. Manager Cabin
v. ATM
vi. Sanitary unit | 30 | L ₃ | CO5 |

Q.5 **Solve any Two**

- | | | | | |
|----|---|----|----------------|-----|
| a) | Write a short note on principles of town planning. | 09 | L ₃ | CO6 |
| b) | Describe duties and powers of town planning officer. | 09 | L ₃ | CO6 |
| c) | Write in details about types of surveys conducted in town planning. | 09 | L ₃ | CO6 |

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Q.6 **Solve any Two**

- a) Explain aim and objective of town planning.
- b) Write short note on:
 - i. Height zoning
 - ii. Density zoning
- c) Explain the following terms:
 - i. Effect of industrial waste
 - ii. Treatment of industrial waste

06 L₂ CO5

06 L₂ CO5

06 L₂ CO6

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