



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 <sub>2</sub>	CO1
OR				
a)	Explain need and importance of building drawing in civil engineering.	07	L <sub>2</sub>	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 <sub>3</sub>	CO2
Q.2	Solve any Two			
a)	List the various principles of planning and discuss any two in	07	L <sub>3</sub>	CO3

**ESE**

Page 1/3

details.

OR

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

OR

- |     |    |  |    |                |     |
|-----|----|--|----|----------------|-----|
| Q.3 | b) | Write a note on Airplane rule and give its advantages. | 08 | L <sub>3</sub> | CO4 |
|     |    | <b>Solve any Two</b>                                   |    |                |     |
|     | a) | Define the following:                                  | 08 | L <sub>1</sub> | CO1 |
|     |    | i. Lintel  |    |                |     |
|     |    | ii. Parapet  |    |                |     |
|     |    | iii. Roof  |    |                |     |
|     |    | iv. Sunshade   |    |                |     |
|     | b) | State the standard guidelines for building drawing.    | 08 | L <sub>2</sub> | CO2 |
|     | c) | Write a short note on following principle of planning: | 08 | L <sub>2</sub> | CO3 |
|     |    | i. Economy   |    |                |     |
|     |    | ii. Furniture requirement                              |    |                |     |
|     | d) | Discuss in brief about open space requirement.         | 08 | L <sub>2</sub> | 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:<br>Scale: 1:100<br>Min. Built-up area: 100 sq.m                                       | 30 | L <sub>3</sub> | CO5 |
| b) | Prepare a floor plan and elevation for a Bank building with following details.<br>Scale: 1:100<br>Units to be covered:<br>i. Waiting Area<br>ii. Staff Counters<br>iii. Cashier room<br>iv. Manager Cabin<br>v. ATM<br>vi. Sanitary unit | 30 | L <sub>3</sub> | CO5 |

Q.5 **Solve any Two**

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

**ESE**

Page 2/3

Q.6 **Solve any Two**

a) Explain aim and objective of town planning.

06 L<sub>2</sub> CO5

b) Write short note on:

06 L<sub>2</sub> CO5

i. Height zoning

ii. Density zoning

c) Explain the following terms:

06 L<sub>2</sub> CO6

i. Effect of industrial waste

ii. Treatment of industrial waste

\*\*\*\*\*

ESE

Page 3/3