

B.E. DEGREE EXAMINATION, 2014

(CIVIL ENGINEERING)

(SEVENTH SEMESTER)

CLEC - 803. INTERIOR DECORATION AND PLANNING

May]

[Time : 3 Hours

Maximum : 60 Marks

(For the candidates of 2007-08 batch and later)

Answer any ONE FULL question from each unit.

ALL questions carry EQUAL marks.

UNIT - I

1. Enumerate anthropometrics and universal design awareness.

(OR)

2. List the presentation techniques and the need for it.

UNIT - II

3. Explain in detail the theory of ergonomics.

(OR)

4. Briefly outline the importance and maintenance of furniture.

UNIT - III

5. Describe the design guidelines for a private bathroom and state its requirements.

(OR)

6. Explain the study of anthropometric data related to kitchens and explain the change in the modern world.

UNIT - IV

7. Differentiate between panelling and partition and discuss their method of construction.

(OR)

8. Explain in detail the requirements of good ceiling material and its area of application.

UNIT - V

9. Explain in detail the fundamentals of landscape designing and its importance in interior design.

(OR)

10. Discuss on transitional zones between interior and exterior and explain xeriscape.

B.E. DEGREE EXAMINATION, 2014**(CIVIL ENGINEERING)****(SEVENTH SEMESTER)****CLEC - 701. GROUND WATER ENGINEERING**

May]

[Time : 3 Hours.

Maximum : 60 Marks

*(For students joined during 2007-08 and later)**Answer any ONE FULL question from each unit**ALL questions carry EQUAL marks.***UNIT - I**

1. Explain in detail the hydrologic cycle with neat sketch. (12)

(OR)

2. Explain the types of aquifers in detail. (12)

UNIT - II

3. Explain how pumping test is done in Theis method. (12)

(OR)

4. Explain the boundary conditions associated with the ground water flow. (12)

UNIT - III

5. Explain the method of constructing hollow wells. (12)

(OR)

6. Explain the method of drilling deep well. (12)

UNIT - IV

7. Explain how seismic refraction method is used in exploring the ground water. (12)

(OR)

8. Explain the test drilling method of subsurface investigation. (12)

UNIT - V

9. Explain Ghyben Herzberg relation between fresh and saline water. (12)

(OR)

10. What is meant by dispersion in sea water intrusion? Explain methods to be followed to control sea water intrusion. (12)

B.E. DEGREE EXAMINATION, 2014

(CIVIL ENGINEERING)

(SEVENTH SEMESTER)

CLEC-702. IRRIGATION AND WATER POWER ENGINEERING

May]

[Time : 3 Hours

Maximum : 60 Marks

Answer any ONE FULL question from each unit.

ALL questions carry EQUAL marks.

UNIT - I

1. Compare surface irrigation with sub-surface irrigation.

(OR)

2. Discuss in detail the types of irrigation.

UNIT - II

3. Enumerate Khosla's theory and their limitations.

(OR)

4. Discuss the design procedure of vertical drop weir.

UNIT - III

5. Discuss the physical factors that govern the selection of dams.

(OR)

6. Explain in detail the various modes failure of gravity dam.

UNIT - IV

7. Describe various methods adopted as anti-waterlogging measures.

(OR)

8. Discuss the design procedure for canal regulator.

UNIT - V

9. Explain the necessity of hydropower and development in India.

(OR)

10. Draw a layout and plan for hydel power plant and summarize the components of hydro-electric installations.

B.E. DEGREE EXAMINATION, 2014**(CIVIL ENGINEERING)****(SEVENTH SEMESTER)****CLEC- 703 / PCLEC-603. ENVIRONMENTAL ENGINEERING - II**

May]

[Time : 3 Hours

Maximum : 60 Marks

*Answer any ONE FULL question from each unit.**ALL questions carry EQUAL marks.***UNIT - I**

1. Explain the construction steps involved in laying of a sewer line with neat sketch. (12)

(OR)

2. Write short notes on :

(a) Self cleansing velocity. (b) Fluctuation of sewage flow.

(c) Hydraulics of sewers. (4 + 4+ 4)

UNIT - II

3. Explain briefly about the absestos cement sewers with their advantages and disadvantages. (12)

(OR)

4. Define man-hole. Explain briefly on location, spacing, classification and components of man-hole. (12)

UNIT - III

5. Explain briefly about the characteristics of sewage and their significance. (12)

(OR)

6. Write a detailed explanatory note on self-purification of streams. (12)

UNIT - IV

7. With the aid of sketches, describe the principles involved in the design and construction of the following :

- (a) Grit chamber. (b) Imhoff tank. (6 + 6)

(OR)

8. Discuss briefly about the construction and working of intermittent sand filters with an appropriate sketch. (12)

UNIT - V

9. Define activated sludge process. Explain briefly about the various operations and units in activated sludge plant. (12)

(OR)

10. What is meant by supernatant liquor? Explain the stages in the sludge digestion process. (12)

B.E. DEGREE EXAMINATION, 2014**(CIVIL ENGINEERING)****(SEVENTH SEMESTER)****CLEC-704 / PCLEC-602. REMOTE SENSING AND GIS***(For the Candidates of 2007-08 batch and later)*

May]

[Time : 3 Hours

Maximum : 60 Marks

*Answer any ONE FULL question from each unit.**ALL questions carry EQUAL marks.***UNIT - I**

1. (a) What are the advantages of remote sensing? (3)
 (b) Discuss in detail the Wave Model of EMR. (9)

(OR)

1. (a) What are the limitations of remote sensing? (3)
 (b) Discuss on the spectral reflectance characteristics of water and vegetation in different spectral bands. (9)

UNIT - II

1. (a) Explain Image Referencing System. (3)
 (b) Write short notes on :
 (i) Active remote sensing (ii) Orbital calendar.
 (iii) Attitude of sensor platform. (9)

(OR)

4. (a) List some of the advantages of remote sensing platforms. (3)
 (b) What is resolution of a sensor? Explain the types of sensor resolutions. (9)

UNIT - III

5. Write short notes on :

- (a) Pattern (b) Meso-texture. (c) De-stripping. (4 + 4 4)

(OR)

6. (a) What are the differences between supervised and un-supervised classification? (3)
 (b) Explain the typical entire process of digital image processing. (9)

UNIT - IV

7. Explain the following :

- (a) ESRI. (b) Cartography. (c) Geodesy. (4 + 4 + 4)

(OR)

8. (a) Explain in detail the functions and limitations of GIS. (6)
 (b) Why should we use GIS instead of conventional DBMS? Explain with examples. (6)

UNIT - V

9. (a) What are raster and vector? Write the basic differences between raster and vector. (3)
 (b) Describe in detail RS and GIS applications in Land Information Systems. (9)

(OR)

10. (a) How can you classify raster data? What are the basic shapes used to represent geographic features in two dimensions? (6)
 (b) What are the methods used to encode vector data in GIS? Explain in brief. (6)

B.E. DEGREE EXAMINATION, 2014**(CIVIL ENGINEERING)****(SEVENTH SEMESTER)****CLEC-705. URBAN AND RURAL PLANNING**

May]

[Time : 3 Hours

Maximum : 60 Marks

*Answer any ONE FULL question from each unit.**ALL questions carry EQUAL marks.***UNIT - I**

1. Explain planning of residential neighbourhoods conforming local authority. (12)
2. Enumerate the re-establishment and redevelopment of urban renewal. (12)

UNIT - II

3. Explain in brief the basic needs required by urban planning. (12)
4. Discuss in detail on satellite towns. (12)

UNIT - III

5. Briefly explain the various levels of review planning in national planning development. (12)
6. Write short notes on the following :
 - (a) Land Acquisition Act.
 - (b) Zoning. (6 + 6)

UNIT - IV

7. What is urbanization? Explain the difference between rural and urban planning. (12)
8. Explain with necessary examples of integral rural development programme. (12)

UNIT - V

9. What is meant by grouping of houses? State the advantages and disadvantages in it. (12)
10. Discuss about principles and design of environmental sanitation in rural housing. (12)

Register Number:

0356

Name of the Candidate:

B.E. DEGREE EXAMINATION, 2014

(CIVIL ENGINEERING)

(SEVENTH SEMESTER)

CLEE-706. WATERSHED CONSERVATION AND MANAGEMENT

May]

Maximum: 60 Marks

[Time : 3 Hours

*Answer One Full Question from each Unit
All questions carry equal marks*

UNIT - I

1. Define watershed and classify. State the characteristics of watershed. (12)

(OR)

2. Discuss in detail the various conservation approaches recommended for soil and water conservation. (12)

UNIT - II

3. List the soil erosion and state the steps to control soil erosion. (12)

(OR)

4. Estimate the soil loss model for various surfaces of land. (12)

UNIT - III

5. Discuss the different measures involved for water conservation. (12)

(OR)

6. Enumerate the techniques involved in flood water harvesting. (12)

UNIT - IV

7. Explain the planning of watershed works. (12)

(OR)

8. Discuss in detail about the watershed management practices in India. (12)

UNIT - V

9. Explain in detail the grass land farming and its management. (12)

(OR)

10. Discuss in detail the management practices for wasteland development. (12)
