



QP CODE: 24804284

Reg No :

Name :

B.ARCH DEGREE REGULAR/SUPPLEMENTARY EXAMINATIONS, AUGUST 2024

Fourth Semester

BACHELOR OF ARCHITECTURE

19AR408E1 - ELECTIVE 1: APPLIED ERGONOMICS

2019 Admission Onwards

67693B73

Time: 3 Hours

Max. Marks : 100

Part A

Answer any six questions out of Eight.

Each question carries 5 marks.

1. Using the help of a neat sketch brief the dimensions and layout of a physically handicapped toilet design.
2. What are the adverse health effects of postural stress?
3. Sketch the dimensions for a dining table chair.
4. Discuss maximum reach for a person on wheel chair.
5. How can the sense of sound be used in designing for visually impaired?
6. What are the important features to be considered in designing a school for children?
7. Four factors influencing thermal comfort.
8. Visual hazard.

(6×5=30)

Part B

Answer any four questions out of six.

Each question carries 10 marks.

9. Explain the Human Anthropometry's role in Applied Ergonomics.
10. Discuss the importance Of the physical ergonomics in workplace productivity.
11. Textures in materials used in old age homes.
12. How to design a parking space for physically challenged person? Explain with sketches.





13. Explain the components of Biomechanics.
14. Which type of compatibility considers the physical arrangement of display and control components?

(4×10=40)

Part C

Answer any two questions out of Four.

Each question carries 15 marks.

15. What are the different types of muscles in the body and explain their role in various actions giving atleast 3 examples of each?
16. How can corridors be designed for the physically handicapped? Discuss in detail including dimensions material and signages
17. Explain problem's caused in a stressful environment.
18. Relationship between commuting stress and productivity of a worker?and point out Factors influencing the workplace deisgn.

(2×15=30)

