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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF DESIGN
END TERM EXAMINATION - JUN 2023**

Semester : Semester VI - 2020

Course Code : BDP310

Course Name : Sem VI - BDP310 - Advance Ergonomics

Program : BDP

Date : 14-JUN-2023

Time : 1.00PM - 4.00PM

Max Marks : 100

Weightage : 50%

Instructions:

- (i) Read all questions carefully and answer accordingly.*
 - (ii) Question paper consists of 3 parts.*
 - (iii) Scientific and non-programmable calculator are permitted.*
 - (iv) Do not write any information on the question paper other than Roll Number.*
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PART A

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

1. Write the full form of RSI. What do you mean by RSI and what factors affect RSI? Explain the stages of RSI with examples.
(CO2) [Knowledge]
2. What are the key principles of ergonomics that product designers should consider when developing a new product? How can product designers accommodate the needs of users with disabilities or special requirements?
(CO1) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 20 = 40M)

3. Take the dimensions for the given pliers, and perform a product ergonomic analysis. Compare the dimensions you measured to the anthropometric data. Provide product measurement, parameter, percentile assessment, analysis, and conclusion using Indian anthropometric data book. Provide at least 4 parameters.
(CO3) [Comprehension]
4. Give examples for each of the five theories of causation as you describe them. What elements influence people's perceptions of the potential hazards of accidents? Describe using an example.
(CO1) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(1 X 40 = 40M)

5. Present the given topic and defend the jury's clarifications.

(CO2,CO3,CO4,CO1) [Application]