Assignment 03

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2018-09-12, 23:59 IST.

1) The guiding Philosophy of Human factors/Ergonomics is

- Fit the man to job [ ]
- Fit the job to man [ ]
- Fit man and job together [ ]
- Fit either man or job [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers: Fit the job to man

2) Select the correct order of Hierarchical need of consumer

- Functionality < usability < pleasure < safety and well being [ ]
- Usability < pleasure < safety and well being < functionality [ ]
- Safety and well being < functionality < usability < pleasure [ ]
- Pleasure < safety and well being < functionality < usability [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers: Safety and well being < functionality < usability < pleasure

3) To improve the performance of the system from the point of view of ergonomics, it is important to understand which of the following

- The user only [ ]
- Product only [ ]
- Both user and product [ ]
- Neither user nor product [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers: Both user and product
4) Sensation and Perceptual capability of the user changes with the user’s  
☐ Age and training  
☐ Motivation  
☐ Mental and physical workload  
☐ All of the above  
No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
All of the above

5) Which one of the following factor is not preferred while grouping control buttons in a control panel design  
☐ Shape and color of controls  
☐ Sequence of use  
☐ Control function  
☐ Frequency of use  
No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Shape and color of controls

6) To increase the efficiency of user-product interaction the following issues are important to consider  
☐ User stereotype  
☐ Form follows function  
☐ Physical fit  
☐ All of the above  
No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
All of the above

7) To design the non-adjustable seat of a public transport system for population, which percentile of the popliteal height (Anthropometric parameter) will be chosen for the maximum seat height  
☐ 5th  
☐ 50th  
☐ 95th  
☐ 75th  
No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
5th

8) Which percentile of the population should be considered when designing a minimum seat breadth  
1 point
9) In the applications of anthropometric data which of the following principle will not be considered
   - Design for extreme individuals
   - Design for the average
   - Design for adjustable range
   - Design for the optimum

No, the answer is incorrect.
Score: 0
Accepted Answers:
Design for the optimum

10) Select the correct sequence of development of Anthropometric considerations in design step by step, is
   - Select the relevant body measurement – Choose the user population – Derive the applicable principle – Aim the percentage of population
   - Choose the user population – Derive the applicable principle – Select the relevant body measurement – Aim the percentage of population
   - Choose the user population – Select the relevant body measurement – Derive the applicable principle – Aim the percentage of population
   - Choose the user population – Select the relevant body measurement – Aim the percentage of population – Derive the applicable principle

No, the answer is incorrect.
Score: 0
Accepted Answers:
Choose the user population – Derive the applicable principle – Select the relevant body measurement – Aim the percentage of population

11) Choose the Biomechanical principle(s) in ergonomics when designing a product
   - The joints should be kept as far as possible in a neutral position
   - Keep the work close to the body
   - The lifting must occur gradually in an even matter
   - All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above

12) To design a user centered workstation which one of the following requirements the designer must fulfill
Which one of the following defines the functional anthropometric data

- Measurements of the bodily dimensions of subjects in fixed (static) positions
- The movement of a body part with respect to a fixed reference point
- Mechanical analysis of the loads on the human body
- All of the above

No, the answer is incorrect.
Score: 0
Acceptable Answers:
Visual, postural and temporal

14. Which one of the following factors would not affect the body dimension?

- Occupation
- Race
- Culture
- Sex

No, the answer is incorrect.
Score: 0
Acceptable Answers:
Culture

15. Match the following:

1. Physio-pleasure   
   a) Related to values that a product and its use represent or support.
2. Social-pleasure   
   b) Related to social relationships and communication that a product enables.
3. Psycho-pleasure   
   c) Include pleasures connected with touch, taste and smell as well as feelings of sensual pleasure.
4. Ideo-pleasure   
   d) Pleasure pertains to people's cognitive and emotional reactions through experiencing the product.

- 1-a, 2-b, 3-c, 4-d
- 1-c, 2-b, 3-d, 4-a
- 1-b, 2-d, 3-a, 4-c
- 1-d, 2-c, 3-b 4-a

No, the answer is incorrect.
Score: 0
Acceptable Answers:
1-c, 2-b, 3-d, 4-a

16. Which one of the following was wrongly quoted as the outcome of ergonomics/human factors

No, the answer is incorrect.
Score: 0
Acceptable Answers:
17. Increases productivity
   Increases comfortability
   Decreases machine cost
   Decreases accidents

   **No, the answer is incorrect.**
   **Score: 0**
   **Accepted Answers:**
   *Decreases machine cost*

   17. The size of the workspace envelope for a seated operator classified into how many zones
   - 2
   - 3
   - 4
   - 5

   **No, the answer is incorrect.**
   **Score: 0**
   **Accepted Answers:**
   *3*

18. Which of the following explains meaning of Affordance in product design
   - from the physical feature of the handle one can understand whether to push/pull
   - compatibility and physical fit
   - highlighting the importance of grouping
   - physical conformation by touching the product

   **No, the answer is incorrect.**
   **Score: 0**
   **Accepted Answers:**
   *from the physical feature of the handle one can understand whether to push/pull*

19. What are the components or levels of product experience
   - Aesthetic pleasure and emotional response
   - Emotional response and attribution of meaning
   - Aesthetic pleasure, attribution of meaning
   - Aesthetic pleasure, attribution of meaning, and emotional response

   **No, the answer is incorrect.**
   **Score: 0**
   **Accepted Answers:**
   *Aesthetic pleasure, attribution of meaning, and emotional response*

20. Most frequently used components on working table are arranged which side of user
   - Left side
   - Right side
   - Central location
   - All of the above

   **No, the answer is incorrect.**
   **Score: 0**