

Unit 3 - Week 1 : Introduction to Automotive Ergonomics - I

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Assignment 1

The due date for submitting this assignment has passed. **Due on 2019-08-14, 23:59 IST.**
As per our records you have not submitted this assignment.

1) The term 'Ergonomics' has its origin from _____ countries. 1 point

European
 Latin American
 African
 Asian
 Oceanian
 Gulf

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

2) Vehicle vibrations greater than _____ are generally perceived as sound or noise 1 point

10 Hz
 15 Hz
 20 Hz
 45 Hz
 90 HZ
 100 Hz

No, the answer is incorrect.
Score: 0
Accepted Answers:
20 Hz

3) The given values in a particular data set are 2, 5, 8, 6, 3, 9, 2, 4, 2, 8, 2, 7, 4, and 5. Find the Mode 1 point

2
 3
 4
 5
 7

No, the answer is incorrect.
Score: 0
Accepted Answers:
2

4) _____ can be defined as the set of mental processes which take place between sensation, perception and the response (output). 1 point

Memory
 Attention
 Co-ordination
 Cognition
 Error
 Simulation

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

5) Typically the Mean + 1.96 * SD covers the _____ percent of population. 1 point

05
 16
 50
 84
 95
 99

No, the answer is incorrect.
Score: 0
Accepted Answers:
95

6) Error pertaining to not being able to read a display by the driver is termed as _____. 1 point

Interpretation Error
 Detection Error
 Substitution Error
 General Error
 Omission Error
 Legibility Error

No, the answer is incorrect.
Score: 0
Accepted Answers:
Legibility Error

7) Body balance and spatial orientation are the examples of _____ perception. 1 point

Visual
 Kinesthetic
 Smell
 Touch
 Auditory
 Olfactory

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

8) _____ describes the back or direction toward the back of the body. 1 point

Dorsal
 Distal
 Ventral
 Sagittal
 Proximal
 Caudal

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

9) Intervertebral Discs are made up of deformable hydraulic pads of _____. 1 point

Bones
 Skull
 Pigments
 Hormones
 Flesh
 Fibrocartilage

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

10) Effective Steering Wheel Clearance can be calculated from 95th percentile of the thigh thickness and additional _____ clearance should be added to it to avoid any collision during jerk or vibration. 1 point

2-5 cm
 5-7 cm
 7-10 cm
 10 cm
 15-20 cm
 25 cm

No, the answer is incorrect.
Score: 0
Accepted Answers:
2-5 cm

11) The word ergonomics is derived from the Greek word 'Ergon' meaning _____ and 'Nomos' meaning laws. 1 point

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Regex Match) work

12) Ergonomics is also widely known as _____ in several regions and countries of the world. 0 points

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Regex Match) human factors

13) By shifting from Mean + 1.00 * SD to Mean + 1.64 * SD; we can accommodate extra _____ percent population. 0 points

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Regex Match) 22

14) Typically, a minimum of _____ head clearance for jolt in a vehicle is recommended. 0 points

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Regex Match) 5 cm
(Type: Regex Match) 5cm

15) The _____ plane divides the body vertically into equal right and left halves. 0 points

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Regex Match) sagittal

16) While driving, the driver pressed accelerator pedal instead of the brake pedal. In this case the driver committed the Omission Error. _____ 1 point

TRUE
 FALSE

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

17) Unmaintained traces of information pertaining to short-term memory lasts for up to 30 seconds. 1 point

TRUE
 FALSE

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

18) Generally, 50th percentile value of leg strength data is recommended for defining actuating force of brake pedal & gear operation 1 point

TRUE
 FALSE

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

19) The lumbar region/section have seven movable vertebrae 1 point

TRUE
 FALSE

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

20) Steering reach is the vertical distance from the Accelerator Heel Point (AHP) to the midpoint of the front edge of the seat 1 point

TRUE
 FALSE

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

21) The 5th percentile values of female buttock-popliteal length is considered for 1 point

Seat Depth
 Dashboard Controls
 Backrest Height
 Backrest Width
 Headrest

No, the answer is incorrect.
Score: 0
Accepted Answers:
Seat Depth

22) The 95th percentile values of male bi-deltoid breadth is considered with some allowance for 1 point

Seat Depth
 Dashboard Controls
 Backrest Height
 Backrest Width
 Headrest

No, the answer is incorrect.
Score: 0
Accepted Answers:
Backrest Width

23) The 5th percentile head height of female to 95th percentile head height of male population is considered for 1 point

Seat Depth
 Dashboard Controls
 Backrest Height
 Backrest Width
 Headrest

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

24) The 5th percentile arm reach values (in different directions) of female population are considered for 1 point

Seat Depth
 Dashboard Controls
 Backrest Height
 Backrest Width
 Headrest

No, the answer is incorrect.
Score: 0
Accepted Answers:
Dashboard Controls

25) The 95th percentile values of male mid-shoulder height (sitting) is considered with some allowance for 1 point

Seat Depth
 Dashboard Controls
 Backrest Height
 Backrest Width
 Headrest

No, the answer is incorrect.
Score: 0
Accepted Answers:
Backrest Height