UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER II
SESSION 2016/2017

COURSE NAME	:	ERGONOMICS & ANTHROPOMETRIC
COURSE CODE	:	BPP 10202
PROGRAMME CODE	:	BPP
EXAMINATION DATE	:	JUNE 2017
DURATION	:	2 HOURS
INSTRUCTION	:	ANSWER **ALL** QUESTIONS

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THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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Q1 (a) Definition the Ergonomics

(2 marks)

(b) State **TWO (2)** aims of Ergonomics

(2 marks)

(c) Explain the Human Operator in Ergonomic

(5 marks)

Q2 A seated work station is to be designed. The work station consists of a table with a fixed height and an adjustable chair with an adjustable foot rest.

(a) List **FIVE (5)** suggestions for the important design features of the chair and the height of the table.

(i) The chair.

(5 marks)

(ii) The table.

(5 marks)

(b) Explain your answer based on questions in **Q2 (a).**

(10 marks)

Q3 (a) Creating a suitable computer work station is important. The pictures below in **Figure Q3** demonstrate an appropriate computer work station.

(i) Explain the numbered in the **Figure Q3**.

(8 marks)

(ii) List **FIVE (5)** potential injuries that could occur as a result long term computer used.

(5 marks)

(b) Determine the feet be positioned when sitting at a computer workstation.

(7 marks)

(c) Determine the body should be in contact with the chair when sitting at a computer Workstation.

(7 marks)

(d) Determine the height of the desk.

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(7 marks)

(e) Discuss the ergonomic needs in a workplace.
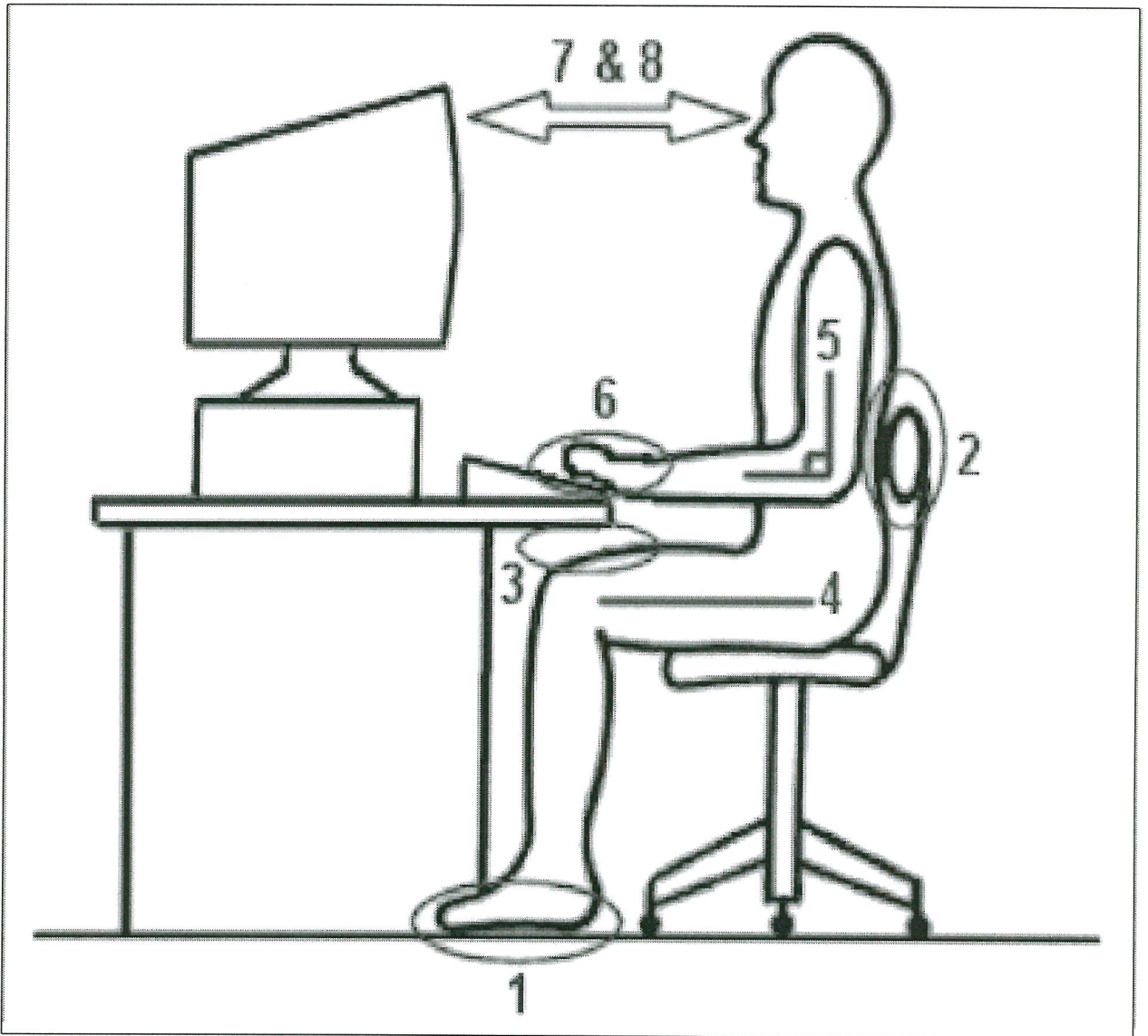
(7 marks)

Figure Q3 : Computer Work Station

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Q4 (a) According to the **Figure Q4**, identify **FOUR (4)** other important areas on the human or machine interface where the size would be an important aspect of the design

(10 marks)

(b) Elaborated a dimensions scale shows the sizes of the areas identified in **Figure Q4** using scale ergonomics and tables of anthropometric data.
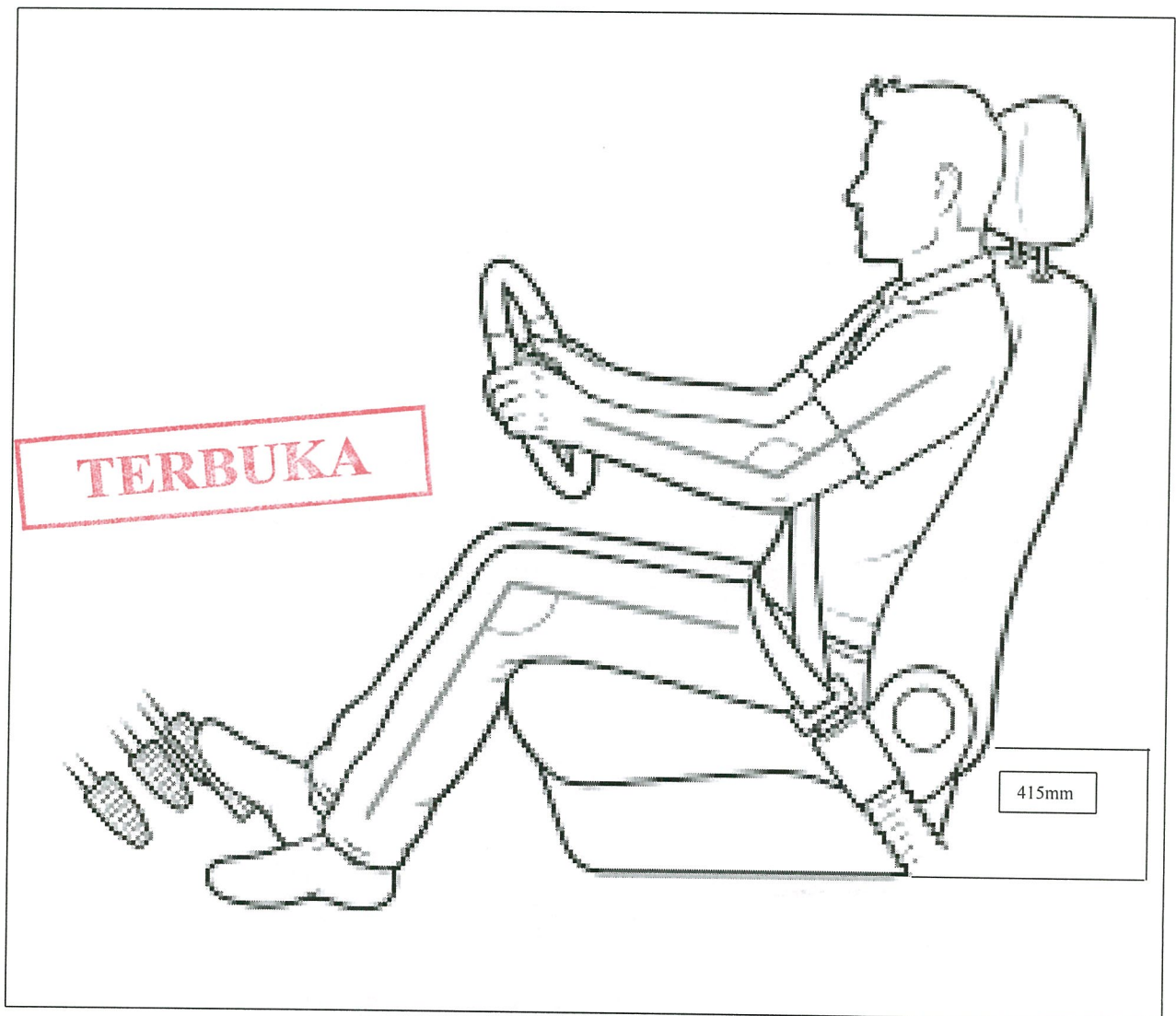
(10 marks)

415mm

Figure Q4: Human Machine Interaction

-END OF QUESTIONS-