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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2020/2021**

COURSE NAME : AVIATION HUMAN FACTOR
COURSE CODE : BDL30702
PROGRAMME CODE : BDC
EXAMINATION DATE : JULY 2021
DURATION : 1 HOUR
INSTRUCTION : ANSWER **FOUR** QUESTIONS ONLY

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

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- Q1** (a) Define the term "human factor". (2 marks)
- (b) Propose and explain FOUR (4) causes of human error. (8 marks)
- Q2** (a) One of your co-pilots was diagnosed with 'myopia'. Explain the cause, effect, protection and care for this type of vision impairment. (8 marks)
- (b) Describe TWO (2) main causes of hearing loss. (2 marks)
- Q3** (a) State THREE (3) sources of prejudice and give further explanation on each type of sources that you state. (6 marks)
- (b) List FOUR (4) possible causes of mental illness. (4 marks)
- Q4** (a) Explain Circadian Rhythms and its effect on human efficiency in the course of 24 hours. (5 marks)
- (b) Gives example on aircraft accidents caused by human errors. State the year of accidents happen and the reason of the accidents. (5 marks)
- Q5** (a) Describe at least THREE (3) job duties and tasks for Commercial Pilot. (6 marks)
- (b) In order to appreciate the types of error that it is possible to make, researchers have looked at human error in a number of ways and proposed various models and theories. List out FOUR (4) of them. (4 marks)

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- (c) Interpret the type of task(s) in **Figure Q5 (c)** together with the various steps that the person in the figure can take, in order to help this task(s) is reliably carried out.
(10 marks)

Q6 (a) Define the following terms;

- i. Hazards.
- ii. Risk.

(4 marks)

- (b) Distinguish between the term “Violation” and “Mistakes” by providing example of each term.

(6 marks)

- (c) Predict FOUR (4) potential hazards from **Figure Q6(c)** and apply at least one emergency action to deal with, for any ONE hazards.

(10 marks)

-END OF QUESTIONS –

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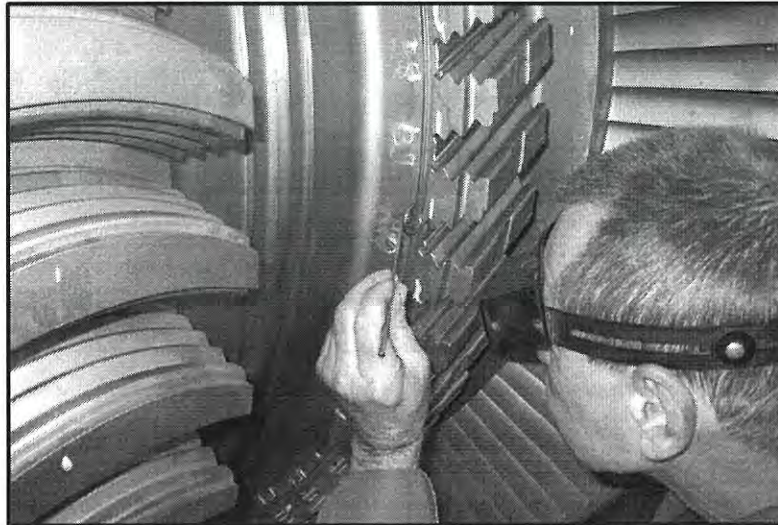


Figure Q5(c)

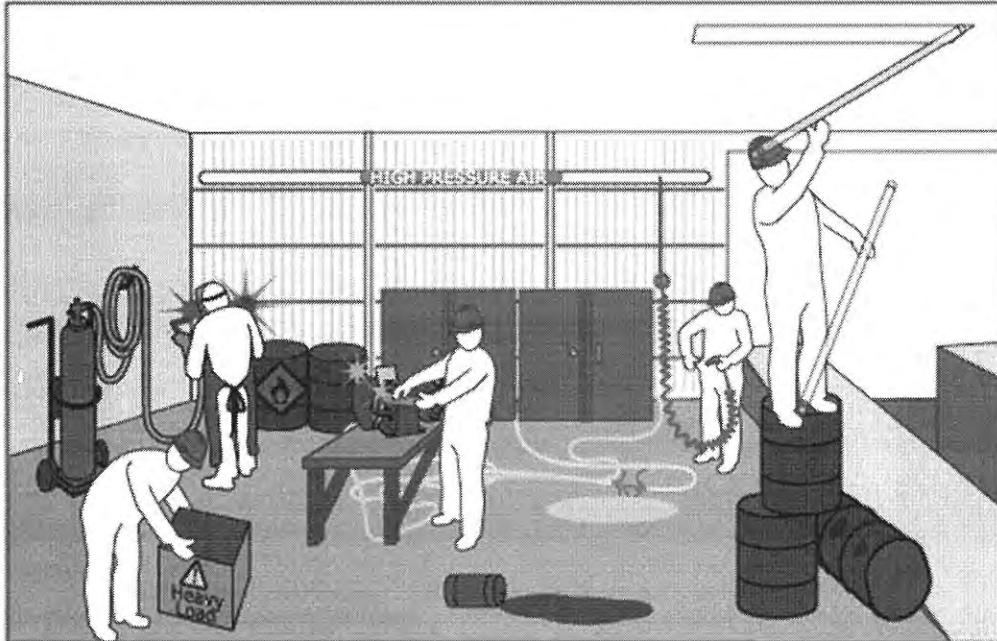


Figure Q6(c)

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