

SECTION F

Answer all questions. Write your answers in the spaces provided.

- *27 After conflicts such as the First or Second World Wars, victims were left with damaged brains. Soldiers who returned home with damaged brains found their level of functioning was impaired. Some also returned home suffering from psychological problems.

Case studies of brain-damaged patients have helped researchers to study the brain and from this they have attempted to propose how the structure and function of the brain affect human behaviour and processing.

Damage to a specific brain area can lead to theories about the function of that region, which may change over time as greater knowledge is amassed through research using improved technology.

Assess how psychological understanding of the brain has changed over time.

(9)

Firstly after the death of Phineas Gage who had damaged his frontal lobe psychologists were able to understand how his brain was affected in his post-mortem report. Phineas Gage died in 1848 so after that psychologists were able to find that ^{if} the frontal lobe was damaged it caused problems with impulse control and decision making. This helped psychologists understand the function of the brain specifically the frontal lobe in more detail using technology such as post-mortem reports etc.

In 1875 ~~the~~ Wilhelm Wundt opened the first laboratory for psychologists where they were able to use scientific procedures to understand the brain better and they were able to experiment and make discoveries about the function of the brain. They could also start conducting tests on patients with brain damage which they previously weren't able to do.

Also around 1924 ^{ECG} ~~EEG~~ scans were used ~~which~~ which is where electrodes were placed on parts of the head/brain and brain activity is scanned. This helped psychologists understand what parts of the brain had the



highest activity and again provide them with more understanding. Later MRI and PET scans were created which helped look at the brain closer and in more detail which ~~may have~~ helped psychologists understand parts in the brain in further detail.



Handwritten response area for Question 27, consisting of approximately 15 horizontal lines.

(Total for Question 27 = 9 marks)

