Questions 27–32

Reading Passage 3 has six paragraphs, **A–F**.

Which paragraph contains the following information?

*Write the correct letter, **A–F**, in boxes 27–32 on your answer sheet.*

27 an explanation of the factors affecting the transmission of information

28 an example of how unnecessary information can be omitted

29 a reference to Shannon's attitude to fame

30 details of a machine capable of interpreting incomplete information

31 a detailed account of an incident involving information theory

32 a reference to what Shannon initially intended to achieve in his research

Questions 33–37

Complete the notes below.

*Choose **NO MORE THAN TWO WORDS** from the passage for each answer.*

Write your answers in boxes 33–37 on your answer sheet.

The Voyager 1 Space Probe

- The probe transmitted pictures of both **33** ..... and ..... , then left the **34** ..... .
- The freezing temperatures were found to have a negative effect on parts of the space probe.
- Scientists feared that both the **35** ..... and ..... were about to stop working.
- The only hope was to tell the probe to replace them with **36** ..... – but distance made communication with the probe difficult.
- A **37** ..... was used to transmit the message at the speed of light.
- The message was picked up by the probe and the switchover took place.

Questions 38–40

Do the following statements agree with the information given in Reading Passage 3?

In boxes 38–40 on your answer sheet, write

TRUE	*if the statement agrees with the information*
FALSE	*if the statement contradicts the information*
NOT GIVEN	*if there is no information on this*

38 The concept of describing something as true or false was the starting point for Shannon in his attempts to send messages over distances.

39 The amount of information that can be sent in a given time period is determined with reference to the signal strength and noise level.

40 Products have now been developed which can convey more information than Shannon had anticipated as possible.