

Answer Key & Explanations

Academic Reading Paper 37 — Heat, Light and Consent

Mark your answer sheet before you read this

HOW TO USE THIS

- Mark one point for each correct answer. Spelling must be correct.
- Convert your total with the band table on the next page.
- Then read the explanation for **every** question you got wrong, and for every one you guessed. The explanation names the mechanism the wrong answer was built on.

The band figure is an estimate. A real paper is pre-tested on thousands of candidates and these have not been, so read the band as a position, not a prediction.

Q	Answer	Code	Mechanism	Where
1	store	R	Straight retrieval — no trap	Paragraph 3.
2	drains	R	Straight retrieval — no trap	Paragraph 4.
3	energy	R	Straight retrieval — no trap	Paragraph 4.
4	sky	E1	Synonym substitution, passage keyword parked on a decoy	Paragraph 5.
5	walls	R	Straight retrieval — no trap	Paragraph 5.
6	TRUE	R	Straight retrieval — no trap	Paragraph 1.
7	FALSE	A6	Direction of change reversed	Paragraphs 1 and 2.
8	NOT GIVEN	B2	Adjacent proposition on the same subject	Paragraph 1.
9	FALSE	C1	Overstatement — hedge removed	Paragraph 7.
10	1830	E2	Answer sits after its own distractor	Paragraph 1.
11	clear	A3	Category swap inside a pair the passage keeps apart	Paragraphs 1 and 6.
12	mixes	R	Straight retrieval — no trap	Paragraph 6.
13	recovers	R	Straight retrieval — no trap	Paragraph 8.
14	i	E4	Minimal-pair options	Section A.
15	iii	E4	Minimal-pair options	Section B.
16	v	E4	Minimal-pair options	Section C.
17	vii	R	Straight retrieval — no trap	Section D.
18	viii	R	Straight retrieval — no trap	Section E.
19	ix	R	Straight retrieval — no trap	Section F.
20	x	R	Straight retrieval — no trap	Section G.

Q	Answer	Code	Mechanism	Where
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21	C	R	Straight retrieval — no trap	Section D.
22	A	R	Straight retrieval — no trap	Section B.
23	C	D2	Intermediate actor named beside the originator	Sections C and D.
24	B	R	Straight retrieval — no trap	Section C.
25	B	A2	Scope widened or narrowed by dropping a qualifier	Section F.
26	B	A7	Time relation reversed	Sections D and G.
27	NO	C2	The extreme version the writer explicitly refused	Paragraphs 1 and 2.
28	YES	R	Straight retrieval — no trap	Paragraph 8.
29	NOT GIVEN	B2	Adjacent proposition on the same subject	Paragraph 2.
30	NO	C2	The extreme version the writer explicitly refused	Paragraph 8.
31	YES	R	Straight retrieval — no trap	Paragraph 5.
32	seventy-six / 76 / seventy six	A1	Quantity re-attached to another noun	Paragraph 2.
33	take-it-or-leave-it	R	Straight retrieval — no trap	Paragraph 3.
34	sufficient	E1	Synonym substitution, passage keyword parked on a decoy	Paragraph 4.
35	substance	R	Straight retrieval — no trap	Paragraph 7.
36	agreed	R	Straight retrieval — no trap	Paragraph 7.
37	B	D1	Statement moved from another paragraph	Paragraph 4.
38	B	C2	The extreme version the writer explicitly refused	Paragraph 6.
39	A	B1	Relation swap	Paragraph 7.
40	A	C2	The extreme version the writer explicitly refused	Paragraph 8.

Score to band

Raw score out of 40	Estimated band
39–40	9
37–38	8.5
35–36	8
33–34	7.5
30–32	7
27–29	6.5
23–26	6
19–22	5.5
15–18	5
13–14	4.5
10–12	4
8–9	3.5
6–7	3
4–5	2.5

Questions 1–5

1 **store** · Paragraph 3.

'A street is a heat **store** that charges all day and discharges after dark.'

Mechanism R — Straight retrieval — no trap

2 **drains** · Paragraph 4.

'A city is designed to remove water as fast as possible through **drains**.'

Mechanism R — Straight retrieval — no trap

3 **energy** · Paragraph 4.

'evaporation takes a large amount of **energy** that would otherwise have gone into raising the temperature'.

Mechanism R — Straight retrieval — no trap

4 **sky** · Paragraph 5.

'A surface loses heat at night by radiating it to the **sky**.' The walls are what blocks the view of it, which is the next step rather than this one.

Mechanism E1 — Synonym substitution, passage keyword parked on a decoy

5 **walls** · Paragraph 5.

'most of the view is not sky but other **walls**'.

Mechanism R — Straight retrieval — no trap

Questions 6–9

6 **TRUE** · Paragraph 1.

'He had no explanation for it and did not pretend to one; he had established that it was there and how it behaved.'

Mechanism R — Straight retrieval — no trap

7 **FALSE** · Paragraphs 1 and 2.

'It was small in the afternoon and large in the small hours of the morning.' The gap opens after sunset and peaks several hours later.

Mechanism A6 — Direction of change reversed

8 **NOT GIVEN** · Paragraph 1.

The passage says he kept records, published the comparison and offered no explanation. How anybody responded to the work is never mentioned.

Mechanism B2 — Adjacent proposition on the same subject

9 **FALSE** · Paragraph 7.

'the popular explanation is shade, but shade only prevents the ground from heating during the day and the larger contribution is transpiration'.

Mechanism C1 — Overstatement — hedge removed

Questions 10–13

10 **1830** · Paragraph 1.

'Between 1806 and **1830** he kept records.' The book itself is named in the next clause and carries no date in this passage.

Mechanism E2 — Answer sits after its own distractor

11 **clear** · Paragraphs 1 and 6.

'on nights that were calm and **clear**'. Calm is handed to you in the stem, and the passage explains later why cloud removes the effect.

Mechanism A3 — Category swap inside a pair the passage keeps apart

12 **mixes** · Paragraph 6.

'Wind reduces the difference because it **mixes** city air with the air beyond.'

Mechanism R — Straight retrieval — no trap

13 **recovers** · Paragraph 8.

'the nights are when a body **recovers** from heat and a city that does not cool removes that recovery'.

Mechanism R — Straight retrieval — no trap

Questions 14–20

14 i · Section A.

'That is correct and it does not answer the question.' Heading ii states the opposite of the section's opening move.

Mechanism E4 — Minimal-pair options

15 iii · Section B.

The foil cap: 'The part that detects the light is therefore not the part that does the bending.' Heading iv is the assumption the experiment removes.

Mechanism E4 — Minimal-pair options

16 v · Section C.

Gelatin passes the signal and mica does not, 'since an electrical signal would have crossed the gelatin as readily as the mica'. Heading vi reverses which possibility was eliminated.

Mechanism E4 — Minimal-pair options

17 vii · Section D.

'Nothing had been seen, isolated or named, and the existence of a growth-promoting substance had been demonstrated.'

Mechanism R — Straight retrieval — no trap

18 viii · Section E.

'It is a difference in the rate at which cells on the two sides stretch.'

Mechanism R — Straight retrieval — no trap

19 ix · Section F.

The red to far-red ratio, which reports a competitor overhead rather than brightness.

Mechanism R — Straight retrieval — no trap

20 x · Section G.

'It is worth resisting the framing that usually accompanies these findings, which is that plants can see.'

Mechanism R — Straight retrieval — no trap

Questions 21–24

21 C · Section D.

Tips stood on agar so that whatever they released would diffuse in.

Mechanism R — Straight retrieval — no trap

22 A · Section B.

The cap on the tip, and then a band lower down.

Mechanism R — Straight retrieval — no trap

23 C · Sections C and D.

'in complete darkness, with no light present anywhere in the experiment'. Boysen-Jensen also worked with cut tips, which is what makes B tempting; his experiment still used light from one side.

Mechanism D2 — Intermediate actor named beside the originator

24 B · Section C.

Gelatin and mica, 1913.

Mechanism R — Straight retrieval — no trap

Questions 25–26

25 B · Section F.

'This is not a response to brightness', and 'it will occur under a light that is bright but has the wrong ratio in it'. C belongs to the phototropism system described earlier.

Mechanism A2 — Scope widened or narrowed by dropping a qualifier

26 B · Sections D and G.

'a set of specific photoreceptors driving specific responses'. D misdates the identification: Went demonstrated the substance in 1926 and naming what it was took a further nine years.

Mechanism A7 — Time relation reversed

Questions 27–31

27 NO · Paragraphs 1 and 2.

'That is not a calculation about laziness. Reading the documents is not an option that a reasonable person has declined; it is not an option.'

Mechanism C2 — The extreme version the writer explicitly refused

28 YES · Paragraph 8.

'a company that states its practice can be held to it, which gives regulators and journalists something to check against behaviour'.

Mechanism R — Straight retrieval — no trap

29 NOT GIVEN · Paragraph 2.

They measured the length of the documents an ordinary user meets in a year and applied a standard reading speed. Whether anybody was asked what they had read is never mentioned — a step beside the one the passage describes.

Mechanism B2 — Adjacent proposition on the same subject

30 NO · Paragraph 8.

'disclosure is not worthless and abolishing it would be a mistake'. What should stop is calling the record an agreement.

Mechanism C2 — The extreme version the writer explicitly refused

31 YES · Paragraph 5.

'Those conditions are met when you sign a lease or take a job, which is why we ask for consent in those settings and expect it to mean something.'

Mechanism R — Straight retrieval — no trap

Questions 32–36

32 seventy-six / 76 / seventy six · Paragraph 2.

'something in the region of **seventy-six** working days'. Two hundred counts hours and is given in the stem.

Mechanism A1 — Quantity re-attached to another noun

33 take-it-or-leave-it · Paragraph 3.

'offered as a single block, on a **take-it-or-leave-it** basis'.

Mechanism R — Straight retrieval — no trap

34 sufficient · Paragraph 4.

'They are written to be legally **sufficient**, which is a different objective and often an opposing one.'

Mechanism E1 — Synonym substitution, passage keyword parked on a decoy

35 **substance** · Paragraph 7.

'What works instead is regulating the **substance**: rules about what may be collected and what may be done with it.'

Mechanism R — Straight retrieval — no trap

36 **agreed** · Paragraph 7.

'which apply whether or not anybody **agreed** to them'.

Mechanism R — Straight retrieval — no trap

Questions 37–40

37 **B** · Paragraph 4.

'any clause simplified for clarity has been made ambiguous for a lawyer'. A states a consequence the passage does not claim.

Mechanism D1 — Statement moved from another paragraph

38 **B** · Paragraph 6.

'Requiring clearer notices, larger buttons or more frequent confirmations does not repair this, because none of them touches the two problems that matter.' A, C and D are all claims the passage makes.

Mechanism C2 — The extreme version the writer explicitly refused

39 **A** · Paragraph 7.

'in the way that safety standards apply to a kettle regardless of what the purchaser signed'. D states the opposite of the point the comparison is making.

Mechanism B1 — Relation swap

40 **A** · Paragraph 8.

The final paragraph keeps disclosure for its real function and objects only to the word consent. B is refused in paragraph 6 and C in paragraph 8.

Mechanism C2 — The extreme version the writer explicitly refused