

# BITSAT English Proficiency & Logical Reasoning — Sample Paper 17

Duration: 45 Minutes

Maximum Marks: 90

## Instructions

- This paper contains **30** Multiple Choice Questions: **English Proficiency** (Q1–Q10) and **Logical Reasoning** (Q11–Q30).
- Each correct answer carries **+3 marks**. Each incorrect answer carries **–1** mark. Unattempted questions carry **0** marks.
- Only **one** option is correct. Choose carefully.

## English Proficiency

**Q1.** Choose the word **most similar in meaning** to the underlined word:

“His ostentatious lifestyle drew criticism from those who valued simplicity.”

- (A) Modest
- (B) Showy
- (C) Reserved
- (D) Practical

**Q2.** Choose the word **most opposite in meaning** to the underlined word:

“The lake looked serene in the early morning light, with no ripple on its surface.”

- (A) Agitated
- (B) Calm
- (C) Peaceful
- (D) Still



**Q3.** Choose the best word to complete the analogy:

**FISH : AQUARIUM :: BIRD : ?**

- (A) Cage
- (B) Nest
- (C) Aviary
- (D) Jungle

**Q4.** Choose the word that **best fills the blank**:

“The judge’s decision was \_\_\_\_\_ and could not be overturned by any lower court.”

- (A) Temporary
- (B) Irrevocable
- (C) Debatable
- (D) Flexible

**Q5.** Choose the word that **best fills the blank**:

“The professor’s \_\_\_\_\_ explanation helped even the weakest students understand the complex topic.”

- (A) Confusing
- (B) Lengthy
- (C) Technical
- (D) Lucid

**Q6.** Identify the part (A), (B), (C), or (D) that contains a **grammatical error**:

(A) The news were (B) shocking to (C) everyone in (D) the building.

- (A) The news were
- (B) shocking to
- (C) everyone in



(D) the building

**Q7.** Choose the sentence that is **grammatically correct**:

- (A) The letter was wrote by him yesterday evening.
- (B) She have been working in this company for five years.
- (C) The project was completed by the team ahead of schedule.
- (D) They were went to the market when it started raining.

**Q8.** Arrange sentences **P, Q, R, S** in the correct logical order:

**P:** He thanked the librarian and walked out with the book.

**Q:** After finding the right shelf, he picked up the book he needed.

**R:** He entered the library and asked the librarian for help.

**S:** He checked out the book at the counter.

- (A) QRSP
- (B) RQSP
- (C) RQPS
- (D) SQRP

*Questions 9 and 10 are based on the following passage.*

Good health is not simply the absence of disease — it is a state of complete physical, mental, and social well-being. Modern lifestyles, characterised by sedentary habits, poor nutrition, and chronic stress, have made this holistic well-being increasingly difficult to achieve. Health experts recommend regular exercise, a balanced diet, adequate sleep, and meaningful social connections as the pillars of a healthy life. Prevention, they argue, is always better than cure.

**Q9.** According to the passage, what makes holistic well-being difficult to achieve in modern life?



- (A) Sedentary habits, poor nutrition, and chronic stress
- (B) Lack of access to hospitals
- (C) High cost of healthy food
- (D) Absence of social media

**Q10.** Which of the following does the passage identify as the pillars of a healthy life?

- (A) Medicines and regular check-ups
- (B) Rest and isolation
- (C) Exercise, balanced diet, adequate sleep, and social connections
- (D) Government health programmes

### Logical Reasoning

**Q11.** Choose the best option to complete the analogy:

**WRITER : PEN :: PHOTOGRAPHER : ?**

- (A) Film
- (B) Camera
- (C) Lens
- (D) Studio

**Q12.** Choose the best option to complete the analogy:

**STARS : SKY :: FISH : ?**

- (A) Fins
- (B) River
- (C) Pond
- (D) Sea



**Q13.** Choose the best option to complete the analogy:

**SKELETON : BODY :: FRAME : ?**

- (A) Roof
- (B) Cement
- (C) Building
- (D) Wall

**Q14.** Find the **next number** in the series:

1, 3, 7, 15, 31, ?

- (A) 63
- (B) 56
- (C) 59
- (D) 61

**Q15.** Find the **next term** in the series:

*AA, CC, FF, JJ, ?*

- (A) NN
- (B) OO
- (C) PP
- (D) MM

**Q16.** Find the **next number** in the series:

4, 9, 16, 25, 36, ?

- (A) 45
- (B) 46
- (C) 48
- (D) 49



- Q17.** In a certain code, **MOON** is written as **PRRQ**. Using the same rule, what is the code for **STAR**?
- (A) VWDU  
(B) UWDV  
(C) VWUD  
(D) WVDU
- Q18.** In a certain code, **LAMP** is written as **PMAL**. Using the same rule, what is the code for **DESK**?
- (A) DEKS  
(B) KEDS  
(C) KSED  
(D) SKDE
- Q19.** A is the father of B. B is the sister of C. C is the husband of D. How is A related to D?
- (A) Father  
(B) Uncle  
(C) Brother-in-law  
(D) Father-in-law
- Q20.** P's mother is Q. R is Q's brother. S is the mother of R. T is the spouse of S. How is T related to P?
- (A) Maternal grandmother  
(B) Maternal grandfather  
(C) Paternal grandfather  
(D) Uncle
- Q21.** A man walks **8 km East**, then **6 km North**, then **8 km West**. Where is he relative to the starting point?



- (A) 8 km East
- (B) 8 km West
- (C) 6 km South
- (D) 6 km North

**Q22.** A person facing **West** turns **270° clockwise**. In which direction is he now facing?

- (A) South
- (B) East
- (C) North
- (D) West

**Q23. Statements:**

Some computers are laptops.

All laptops are portable.

**Conclusions:**

I. Some computers are portable.

II. Some portable things are computers.

Which conclusion(s) follow?

- (A) Only I
- (B) Only II
- (C) Both I and II
- (D) Neither

**Q24. Statements:**

No river is a lake.

Some lakes are deep.

**Conclusions:**



- I. Some rivers are deep.  
II. Some deep things are not rivers.

Which conclusion(s) follow?

- (A) Both I and II  
(B) Only II  
(C) Only I  
(D) Neither

**Q25.** Choose the **odd one out**:

Violin   Guitar   Flute   Sitar   Veena

- (A) Flute  
(B) Guitar  
(C) Sitar  
(D) Veena

**Q26.** Choose the **number that does not belong** in the group:

36   64   100   144   196   150

- (A) 36  
(B) 144  
(C) 196  
(D) 150

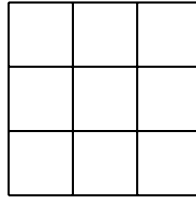
**Q27.** Study the pattern and find the value of ‘?’.

8	2	4
15	5	3
12	3	?



- (A) 3
- (B) 5
- (C) 4
- (D) 6

**Q28.** How many **squares** (of all sizes) are present in the figure below?



- (A) 9
- (B) 14
- (C) 16
- (D) 12

**Q29.** In a class of **30 students**, Kavya ranks **8th from the top**. How many students are **below** her?

- (A) 22
- (B) 23
- (C) 21
- (D) 20

**Q30.** In a row of **7 students**, X stands at the **3rd position from the left** and Y stands at the **5th position from the left**. How many students are **between** X and Y?

- (A) 3
- (B) 2
- (C) 4
- (D) 1



**Detailed Solutions**

Q1.

**Solution**

**Synonym of OSTENTATIOUS:** *Ostentatious* means designed to impress or attract notice; displaying wealth or ability in a way that is meant to be noticed.

- (B) **Showy** — means intended to attract attention; direct synonym. **Correct.**
- (A) Modest — antonym. (C) Reserved — antonym in manner.

**Synonyms:** *Showy, flamboyant, flashy, pretentious, gaudy.* **Final Answer:** Showy  
⇒  B

**Answer: (B)** [Go Back to Q1](#)

Q2.

**Solution**

**Antonym of SERENE:** *Serene* means calm, peaceful, and untroubled.

- (A) **Agitated** — means troubled or disturbed; direct antonym. **Correct.**
- (B) Calm / (C) Peaceful / (D) Still — all synonyms of serene.

**Antonyms:** *Agitated, turbulent, stormy, restless, disturbed.* **Final Answer:** Agitated  
⇒  A

**Answer: (A)** [Go Back to Q2](#)

Q3.

**Solution**

**Analogy — Creature and Enclosed Habitat:** FISH : AQUARIUM — fish are kept in an aquarium. BIRD : AVIARY — birds are kept in an aviary (a large enclosure for keeping birds).

- (C) **Aviary** — the enclosed space designed to house birds. **Correct.**
- (A) Cage — too small; an aviary is the large-scale parallel to an aquarium.
- (B) Nest — a natural structure, not an enclosure built to keep birds.

**Final Answer:** Aviary ⇒  C

**Answer: (C)** [Go Back to Q3](#)



Q4.

**Solution**

**Fill in the Blank:** “Could not be overturned by any lower court” signals a permanent, final decision.

- (B) **Irrevocable** — means not able to be changed, reversed, or recovered; perfect match. **Correct.**
- Others (temporary, debatable, flexible) contradict the finality described.

**Synonyms:** *Final, irreversible, permanent, unalterable.* **Final Answer:** Irrevocable

⇒

**Answer: (B)** [Go Back to Q4](#)

Q5.

**Solution**

**Fill in the Blank:** “Helped even the weakest students understand the complex topic” means the explanation was very easy to follow.

- (D) **Lucid** — means expressed clearly; easy to understand. **Correct.**
- (A) Confusing / (C) Technical — would hinder weak students, not help them.

**Synonyms:** *Clear, transparent, intelligible, comprehensible, cogent.* **Final Answer:**

Lucid ⇒

**Answer: (D)** [Go Back to Q5](#)

Q6.

**Solution**

**Grammar: “News” is Singular:** The word *news* looks plural but is treated as **singular** in English. It always takes a singular verb: “the news **was** shocking.”

- (A) “**The news were**” — **error:** *news* is singular, so it should be “The news **was.**” **Error here.**
- (B), (C), (D) — grammatically correct.

**Other uncountable/always-singular nouns:** *information, advice, furniture, luggage, mathematics, physics* — all take singular verbs.

**Final Answer:** Part (A) “The news were” ⇒



Answer: (A) [Go Back to Q6](#)

Q7.

### Solution

**Grammar: Correct Passive Voice and Verb Forms:**

- (A) “was wrote” — incorrect past participle; should be “was **written.**”
- (B) “She have been working” — subject-verb error; should be “She **has** been working.”
- (C) “**The project was completed by the team ahead of schedule.**” — Correct passive voice construction. **Correct.**
- (D) “They were went” — incorrect; “were went” is not a valid form. Should be “They went” or “They had gone.”

Final Answer: Option (C) ⇒  C

Answer: (C) [Go Back to Q7](#)

Q8.

### Solution

**Sentence Arrangement: Library Visit:** R: Entered library and asked for help (start). → Q: Found the shelf and picked the book. → S: Checked out at the counter. → P: Thanked librarian and walked out (end). Sequence: **RQSP.** Final Answer: RQSP ⇒  B

Answer: (B) [Go Back to Q8](#)

Q9.

### Solution

**RC Factual Retrieval:** “Modern lifestyles, characterised by **sedentary habits, poor nutrition, and chronic stress,** have made this holistic well-being increasingly difficult to achieve.”

- (A) **Sedentary habits, poor nutrition, and chronic stress** — exact match. **Correct.**

Final Answer: ⇒  A

Answer: (A) [Go Back to Q9](#)



Q10.

**Solution**

**RC: Pillars of a Healthy Life:** “Health experts recommend **regular exercise, a balanced diet, adequate sleep, and meaningful social connections** as the pillars of a healthy life.”

- (C) **Exercise, balanced diet, adequate sleep, and social connections** — direct match. **Correct.**

**Final Answer:** ⇒

**Answer: (C)** [Go Back to Q10](#)

Q11.

**Solution**

**Analogy — Tool of the Professional:** WRITER : PEN — a pen is the primary tool of a writer. PHOTOGRAPHER : CAMERA — a camera is the primary tool of a photographer.

- (B) **Camera** — direct parallel. **Correct.**
- (C) Lens — a component of a camera, not the whole tool.

**Final Answer:** Camera ⇒

**Answer: (B)** [Go Back to Q11](#)

Q12.

**Solution**

**Analogy — Creature and its Natural Habitat (Large Scale):** STARS : SKY — stars exist naturally in the sky. FISH : SEA — fish exist naturally in the sea (their natural large-scale habitat).

- (D) **Sea** — the natural large-scale habitat of fish; parallel to sky for stars. **Correct.**
- (B) River / (C) Pond — smaller freshwater bodies; not the broadest natural parallel.

**Final Answer:** Sea ⇒

**Answer: (D)** [Go Back to Q12](#)



Q13.

**Solution**

**Analogy — Internal Support Structure:** SKELETON : BODY — the skeleton is the internal framework that supports the body. FRAME : BUILDING — the structural frame is the internal framework that supports a building.

- (C) **Building** — a frame supports/constitutes a building's structure. **Correct.**

**Final Answer:** Building  $\Rightarrow$

**Answer: (C)** [Go Back to Q13](#)

Q14.

**Solution**

**Number Series:**  $\times 2 + 1$  **Pattern:**  $1 \times 2 + 1 = 3$ ,  $3 \times 2 + 1 = 7$ ,  $7 \times 2 + 1 = 15$ ,  $15 \times 2 + 1 = 31$ ,  $31 \times 2 + 1 = 63$ . **Alternative:** Note that each term =  $2^n - 1$ : 1, 3, 7, 15, 31, 63 for  $n = 1, 2, 3, 4, 5, 6$ .  $\checkmark$  **Final Answer:** 63  $\Rightarrow$

**Answer: (A)** [Go Back to Q14](#)

Q15.

**Solution**

**Letter Series: Increasing Gap Pattern:**

Term	Letter (position)	Gap from previous
AA	A = 1	—
CC	C = 3	+2
FF	F = 6	+3
JJ	J = 10	+4
??	? = 15	+5

Position 15 = O. Next term: **OO**. **Final Answer:** OO  $\Rightarrow$

**Answer: (B)** [Go Back to Q15](#)

Q16.

**Solution**

**Number Series: Perfect Squares:**  $4 = 2^2$ ,  $9 = 3^2$ ,  $16 = 4^2$ ,  $25 = 5^2$ ,  $36 = 6^2$ ,  $? = 7^2 = 49$ . **Final Answer:** 49  $\Rightarrow$



**Answer: (D)** [Go Back to Q16](#)

Q17.

### Solution

**Coding: +3 Shift — Apply to STAR:** Verify MOON: M(13)→P(16), O(15)→R(18), O(15)→R(18), N(14)→Q(17) = PRRQ ✓  
**STAR:** S(19)→V(22), T(20)→W(23), A(1)→D(4), R(18)→U(21) = **VWDU**. **Final Answer:** VWDU ⇒

**Answer: (A)** [Go Back to Q17](#)

Q18.

### Solution

**Coding: Word Reversal — Apply to DESK:** Verify: LAMP reversed = P-M-A-L = PMAL ✓  
**DESK reversed:** D-E-S-K → K-S-E-D = **KSED**. **Final Answer:** KSED ⇒

**Answer: (C)** [Go Back to Q18](#)

Q19.

### Solution

**Blood Relations:** A is B's father. B is C's sister ⇒ A is also C's father. C is D's husband ⇒ A is the father of D's husband = D's **father-in-law**. **Final Answer:** Father-in-law ⇒

**Answer: (D)** [Go Back to Q19](#)

Q20.

### Solution

**Blood Relations: Chain:** Q is P's mother. R is Q's brother ⇒ R and Q are siblings. S is R's mother ⇒ S is also Q's mother ⇒ S is P's maternal grandmother. T is S's spouse ⇒ T is P's **maternal grandfather**. **Final Answer:** Maternal grandfather ⇒

**Answer: (B)** [Go Back to Q20](#)



Q21.

**Solution**

**Direction: Cancellation:**  $(0, 0) \xrightarrow{8E} (8, 0) \xrightarrow{6N} (8, 6) \xrightarrow{8W} (0, 6)$ .

East and West cancel (8 km each). Final position:  $(0, 6) = 6 \text{ km North}$  of start.

**Final Answer:** 6 km North  $\Rightarrow$

**Answer: (D)** [Go Back to Q21](#)

Q22.

**Solution**

**Direction: Turn Calculation:** West =  $270^\circ$ . Add  $270^\circ$  CW:  $270 + 270 = 540^\circ$ .  
 $540 - 360 = 180^\circ = \text{South}$ .

Shortcut:  $270^\circ$  CW =  $90^\circ$  anticlockwise. West rotated  $90^\circ$  ACW = South.  $\checkmark$  **Final**

**Answer:** South  $\Rightarrow$

**Answer: (A)** [Go Back to Q22](#)

Q23.

**Solution**

**Syllogism:** Conclusion I: Some computers are laptops + All laptops are portable  
 $\Rightarrow$  those computers (that are laptops) are portable  $\Rightarrow$  Some computers are portable. **Follows.**  $\checkmark$

Conclusion II: By conversion of I: some portable things are computers. **Follows.**

$\checkmark$

Both follow  $\Rightarrow$  **C. Final Answer:** Both I and II  $\Rightarrow$

**Answer: (C)** [Go Back to Q23](#)

Q24.

**Solution**

**Syllogism:** Conclusion I: "Some rivers are deep." No link between rivers and deep is established. **Does not follow.**

Conclusion II: "Some deep things are not rivers." Some lakes are deep (given).  
 No river is a lake  $\Rightarrow$  those deep lakes are not rivers  $\Rightarrow$  some deep things are not rivers. **Follows.**  $\checkmark$

Only II  $\Rightarrow$  **B. Final Answer:** Only II  $\Rightarrow$

**Answer: (B)** [Go Back to Q24](#)



Q25.

**Solution****Odd One Out: String vs Wind Instruments:**

- Violin, Guitar, Sitar, Veena — string instruments (produce sound by vibrating strings).
- **Flute** — wind instrument (aerophone); sound produced by blowing air across/into an opening. **Odd one out.**

**Final Answer:** Flute  $\Rightarrow$  **Answer: (A)** [Go Back to Q25](#)

Q26.

**Solution****Odd One Out: Perfect Squares:**  $36 = 6^2$ ,  $64 = 8^2$ ,  $100 = 10^2$ ,  $144 = 12^2$ ,  $196 = 14^2$  — all perfect squares.150:  $\sqrt{150} \approx 12.25$  — **not** a perfect square. **Odd one out. Final Answer:** 150  $\Rightarrow$  **Answer: (D)** [Go Back to Q26](#)

Q27.

**Solution****Number Matrix: Col 1  $\div$  Col 2 = Col 3:** Row 1:  $8 \div 2 = 4 \checkmark$  Row 2:  $15 \div 5 = 3 \checkmark$  Row 3:  $12 \div 3 = 4$ . **Final Answer:** 4  $\Rightarrow$  **Answer: (C)** [Go Back to Q27](#)

Q28.

**Solution****Counting Squares in a  $3 \times 3$  Grid:**

- $1 \times 1$  squares:  $3 \times 3 = 9$ .
- $2 \times 2$  squares:  $2 \times 2 = 4$ .
- $3 \times 3$  squares:  $1 \times 1 = 1$ .

**Total:**  $9 + 4 + 1 = 14$ . (General formula:  $\sum_{k=1}^n (n - k + 1)^2 = n^2 + (n - 1)^2 + \dots + 1^2$ .)**Final Answer:** 14  $\Rightarrow$  **Answer: (B)** [Go Back to Q28](#)

Q29.

**Solution**

**Rank: Students Below:** Kavya is 8th from top in 30 students. Students above her: 7. Students below her:  $30 - 8 = 22$ . **Final Answer:** 22  $\Rightarrow$

**Answer: (A)** [Go Back to Q29](#)

Q30.

**Solution**

**Row: Students Between Two Known Positions:** X is at position 3; Y is at position 5. Between positions 3 and 5: position 4 only = **1 student**. Formula:  $|5 - 3| - 1 = 2 - 1 = 1$ . **Final Answer:** 1  $\Rightarrow$

**Answer: (D)** [Go Back to Q30](#)



## Answer Key

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	2	A	3	C	4	B	5	D
6	A	7	C	8	B	9	A	10	C
11	B	12	D	13	C	14	A	15	B
16	D	17	A	18	C	19	D	20	B
21	D	22	A	23	C	24	B	25	A
26	D	27	C	28	B	29	A	30	D

