AMCAT SAMPLE QUESTION PAPER

Total Sections: 4 Compulsory + 2 Optional
Total Time: Approximately 3-4 hours

SECTION 1: ENGLISH COMPREHENSION (18 Questions | 16 Minutes)

Question 1: Choose the word most similar in meaning to "AMBITIOUS":
A) Lazy
B) Aspiring
C) Content
D) Passive
Answer: B

Question 2: Identify the error in the sentence: "She don't like to eat vegetables."
A) She
B) don't
C) to eat
D) No error
Answer: B (Correct: "doesn't")

Question 3: Fill in the blank: "The meeting was _____ due to bad weather."
A) postponed
B) advanced
C) executed
D) ignored
Answer: A

Question 4: Choose the correct idiom meaning for "A piece of cake":
A) Delicious dessert
B) Something very easy
C) A small portion
D) An expensive item
Answer: B

Question 5: Antonym of "ABUNDANT":
A) Plentiful
B) Scarce
C) Sufficient
D) Generous
Answer: B

Question 6: Sentence correction: "Neither of the students have completed their assignments."
A) Neither of the students has completed their assignments.
B) Neither of the student have completed their assignment.
C) Neither students have completed assignments.
D) No correction needed
Answer: A

Question 7-9: Reading Comprehension Passage
"Artificial Intelligence is transforming industries worldwide. From healthcare diagnostics to financial forecasting, AI algorithms process vast amounts of data faster than humans. However, ethical concerns about privacy and job displacement remain significant challenges that require careful consideration."

Question 7: What is the main topic of the passage?
A) Healthcare technology
B) Impact of AI across sectors
C) Financial forecasting methods
D) Privacy laws
Answer: B

Question 8: According to the passage, what is a challenge of AI?
A) Speed of processing
B) Data availability
C) Ethical concerns
D) Algorithm development
Answer: C

Question 9: The tone of the passage is:
A) Highly critical
B) Completely positive
C) Balanced and informative
D) Humorous
Answer: C

SECTION 2: QUANTITATIVE ABILITY - NON-TECH (16 Questions | 18 Minutes)

Question 1: If 20% of a number is 50, what is the number?
A) 200
B) 250
C) 300
D) 350
Answer: B (50 × 100/20 = 250)

Question 2: A train 120 meters long crosses a platform 180 meters long in 15 seconds. What is its speed in km/hr?

A) 72

B) 60

C) 54

D) 48

Answer: A (Total distance = 300m, Speed = 300/15 = 20 m/s = 72 km/hr)

Question 3: The ratio of boys to girls in a class is 3:2. If there are 15 boys, how many girls are there?

A) 8

B) 10

C) 12

D) 15

Answer: B (3/2 = 15/x, x = 10)

Question 4: Simple Interest on ₹5000 at 10% per annum for 2 years is:

A) ₹500

B) ₹1000

C) ₹1500

D) ₹2000

Answer: B (SI = 5000 × 10 × 2/100 = 1000)

Question 5: What is the next number in the series: 2, 6, 12, 20, 30, ?

A) 40

B) 42

C) 44

D) 48

Answer: B (Pattern: add 4, 6, 8, 10, 12)

Question 6: A shopkeeper offers 20% discount on marked price and still makes 25% profit. If CP is ₹400, what is the marked price?

A) ₹500

B) ₹625

C) ₹650

D) ₹700

Answer: B (SP = 400 × 1.25 = 500; MP = 500/0.8 = 625)

Question 7: The average of 5 numbers is 30. If one number is excluded, the average becomes 28. What is the excluded number?

A) 32

B) 36

C) 38

D) 40

Answer: C (Total = 150, New total = 112, Excluded = 38)

Question 8: In how many ways can the letters of the word "TEAM" be arranged?

A) 12

B) 16
C) 24
D) 32
Answer: C (4! = 24)

SECTION 3: LOGICAL ABILITY (14 Questions | 16 Minutes)

Question 1: If A is the brother of B, B is the sister of C, and C is the father of D, how is D related to A?
A) Nephew/Niece
B) Son/Daughter
C) Cousin
D) Uncle
Answer: A

Question 2: Complete the series: ACE, BDF, CEG, ?
A) DFH
B) DGH
C) EFG
D) CFH
Answer: A

Question 3: In a certain code, PAINT is written as RCKPV. How is BRUSH written?
A) DTWUJ
B) DTUVJ
C) ESWTI
D) DTXWK
Answer: A (Each letter +2)

Question 4: Five friends A, B, C, D, and E are sitting in a row. A and B are at the ends. C is between D and E. Who is in the middle?
A) C
B) D
C) E
D) Cannot be determined
Answer: D (Multiple arrangements possible)

Question 5: If all roses are flowers and some flowers are red, which conclusion is definitely true?
A) All roses are red
B) Some roses are red
C) Some flowers are roses
D) None of the above
Answer: C

Question 6: A clock shows 3:15. What is the angle between the hour and minute hands?
A) 0°
B) 7.5°
C) 15°
D) 22.5°
Answer: B (Hour hand at 97.5°, minute hand at 90°)

Question 7: Find the odd one out: 3, 7, 15, 27, 63
A) 3
B) 7
C) 15
D) 27
Answer: D (Pattern: 2^n - 1, except 27)

SECTION 4: PERSONALITY INVENTORY (AMPI) (90 Questions | 20 Minutes)

Sample Questions (Rate on scale: Strongly Disagree to Strongly Agree)

Question 1: I enjoy working in team settings rather than alone.
Question 2: I remain calm under pressure and tight deadlines.
Question 3: I prefer following established procedures over experimenting with new methods.
Question 4: I am comfortable presenting ideas to large groups.
Question 5: I prioritize completing tasks over socializing with colleagues.

(Note: These have no right/wrong answers. Answer honestly for best job fit)

OPTIONAL SECTION 5: AUTOMATA FIX (25 Questions | 45 Minutes)

Question 1: Find the error in this code:

```python
defsum_numbers(n): total =0for i inrange(n): total += i return total
result = sum_numbers(5)
```

Issue: Should be `range(1, n+1)` to include n
Corrected range: range(1, 6) or range(n+1)

Question 2: What is the output?

java
```java
int x =5;int y = x++;System.out.println(y);
```

A) 5
B) 6
C) Error
D) 0
Answer: A (Post-increment: y gets old value)

Question 3: Debug this code to reverse a string:

c
```c
char str[]="hello";int len =strlen(str);for(int i=0; i<len/2;
i++){char temp = str[i]; str[i]= str[len-i]; str[len-i]= temp;}
```

Error: `str[len-i]` should be `str[len-i-1]`

OPTIONAL SECTION 6: COMPUTER SCIENCE (30 Questions | 30 Minutes)

Question 1: Which data structure uses LIFO principle?
A) Queue
B) Stack
C) Tree
D) Graph
Answer: B

Question 2: What is the time complexity of binary search?
A) O(n)
B) O(log n)
C) O(n²)
D) O(1)
Answer: B

Question 3: Which SQL command is used to retrieve data?
A) INSERT
B) UPDATE
C) SELECT
D) DELETE
Answer: C

Question 4: In networking, what does HTTP stand for?
A) Hyper Text Transfer Protocol
B) High Transfer Text Protocol
C) Hyper Transfer Technical Protocol

D) Home Tool Transfer Protocol

Answer: A

Question 5: Which is not an OOP concept?
A) Inheritance
B) Polymorphism
C) Compilation
D) Encapsulation

Answer: C

END OF SAMPLE PAPER

Scoring Guide:

- English: 70%+ accuracy = Good

- Quant: 75%+ accuracy = Good

- Logical: 70%+ accuracy = Good

- Automata: 60%+ accuracy = Good

- CS: 65%+ accuracy = Good

Practice Tips:

- Time yourself strictly per section

- Review wrong answers immediately

- Take 3-4 full mocks before actual exam

- Download more samples from myamcat.com