

# ATMA Question Paper 2026 (Memory-Based Questions)

Time Allowed :3 Hours	Maximum Marks :180	Total Questions :180
-----------------------	--------------------	----------------------

---

1. If  $\frac{a}{b} = \frac{1}{3}$ ,  $\frac{b}{c} = \frac{2}{2}$ ,  $\frac{c}{d} = \frac{1}{2}$ ,  $\frac{d}{e} = \frac{3}{3}$  and  $\frac{e}{f} = \frac{1}{4}$ , then what is the value of  $\frac{abc}{def}$ ?

- (a)  $\frac{3}{8}$
- (b)  $\frac{27}{8}$
- (c)  $\frac{3}{4}$
- (d)  $\frac{27}{4}$
- (e)  $\frac{1}{4}$

---

2. If  $x = -0.5$ , then which of the following has the smallest value?

- (a)  $2^x$
- (b)  $\frac{1}{x}$
- (c)  $\frac{1}{x^2}$
- (d)  $2x^x$
- (e)  $\frac{1}{\sqrt{-x}}$

---

3. Which among  $2^{1/2}$ ,  $3^{1/3}$ ,  $4^{1/4}$ ,  $6^{1/6}$  and  $12^{1/12}$  is the largest?

- (a)  $2^{1/2}$
- (b)  $3^{1/3}$
- (c)  $4^{1/4}$
- (d)  $6^{1/6}$
- (e)  $12^{1/12}$

---

4. Consider a sequence where the  $n$ th term,  $t_n = \frac{n}{n+2}$ ,  $n = 1, 2, \dots$ . The value of  $t_3 \times t_4 \times t_5 \times \dots \times t_{53}$  equals:

- (a)  $\frac{2}{495}$
- (b)  $\frac{2}{477}$
- (c)  $\frac{12}{55}$
- (d)  $\frac{1}{1485}$
- (e)  $\frac{1}{2970}$

---

5. When you reverse the digits of the number 13, the number increases by 18. How many other two-digit numbers increase by 18 when their digits are reversed?

- (a) 5
- (b) 6
- (c) 7
- (d) 8
- (e) 10

---

6. Arun's present age in years is 40% of Barun's. In another few years, Arun's age will be half of Barun's. By what percentage will Barun's age increase during this period?

- (a) 20
- (b) 25
- (c) 30
- (d) 40

---

7. The ratio of two numbers is 3 : 5. If 39 is added to the first, and 14 is added to the second, then the ratio becomes 6 : 7. What will be the ratio if 11 is added to the first number and 6 is added to the second number?

- (a) 7 : 9
  - (b) 5 : 9
  - (c) 5 : 7
  - (d) 2 : 3
-