

ADP Placement Papers 2026

15 MCQs with answer key · Free download

Questions

Q1. [CS Fundamentals] Average time complexity of binary search on a sorted array is: [ADP paper]

- A) $O(\log n)$
- B) $O(n)$
- C) $O(1)$
- D) $O(n \log n)$

Q2. [CS Fundamentals] Which data structure is best for LRU cache? [ADP paper]

- A) HashMap + Doubly Linked List
- B) Array only
- C) Binary heap only
- D) Queue only

Q3. [Reasoning] You have 3 boxes: apples, oranges, apples&oranges - all labeled wrong. You pick one fruit from the box labeled apples&oranges. It is an apple. Correct labels? [ADP paper]

- A) apples; oranges; apples&oranges respectively after remapping
- B) Cannot determine
- C) All stay wrong
- D) Only apples correct

Q4. [Quantitative] HCF of 18 and 13 is:

- A) 1
- B) 234
- C) 18
- D) 13

Q5. [Reasoning] Find the next number: 1, 4, 9, 16, 25, ?

- A) 29
- B) 236
- C) 36
- D) 43

Q6. [Quantitative] A is twice as efficient as B. Together they complete a work in 12 days. In how many days will A alone complete it?

- A) 22 days
- B) 218 days
- C) 14 days
- D) 18 days

Q7. [Verbal] Problem: Choose the synonym for "Ephemeral": a) Eternal b) Transient c) Permanent d) Perpetual

- A) Eternal
- B) Transient
- C) Permanent
- D) Perpetual

Q8. [Quantitative] HCF of 8 and 18 is:

- A) 2
- B) 72
- C) 8
- D) 18

Q9. [Verbal] Choose the correct sentence:

- A) Neither of the options is correct.
- B) Neither of the options are correct.
- C) Neither of the option is correct.
- D) Neither of option is correct.

Q10. [Reasoning] If SKY !' 19-11-25, then SUN !' ?

- A) 19-21-14
- B) 19-11-25
- C) Cannot say
- D) 3

Q11. [Quantitative] HCF of 14 and 24 is:

- A) 2
- B) 168
- C) 14
- D) 24

Q12. [Verbal] If the cost price of 20 articles is equal to the selling price of 15 articles, find the profit percentage.

- A) 37.3%
- B) 33.33%
- C) 35.3%
- D) 29.3%

Q13. [Quantitative] HCF of 14 and 22 is:

- A) 2
- B) 154
- C) 14
- D) 22

Q14. [Quantitative] HCF of 5 and 15 is:

- A) 5
- B) 15
- C) 7
- D) 8

Q15. [Verbal] Antonym of "Temporary":

- A) None of these
- B) Not clear
- C) All of these
- D) Permanent

Answer Key & Explanations

Q1. A

Halves search space each step.

Q2. A

$O(1)$ lookup + $O(1)$ move-to-front.

Q3. A

Classic Google/Microsoft puzzle pattern: labeled mixed is actually apples.

Q4. A

$\gcd(18,13)=1$.

Q5. C

Correct answer: 36

Q6. D

Let B's efficiency = 1 unit/day A's efficiency = 2 units/day Together: $1 + 2 = 3$ units/day Total work = $3 \times 12 = 36$ units A alone: $36 / 2 = 18$ days

Q7. B

"Ephemeral" means lasting for a very short time, temporary. "Transient" has the same meaning.

Q8. A

$\gcd(8,18)=2$.

Q9. A

Neither takes singular verb; "options" is plural noun with of.

Q10. A

Alphabet positions

Q11. A

$\gcd(14,24)=2$.

Q12. B

Let CP of 1 article = ₹1 CP of 20 articles = ₹20 SP of 15 articles = ₹20 (given) SP of 1 article = $\frac{20}{15} = \frac{4}{3}$ Profit = $\frac{4}{3} - 1 = \frac{1}{3}$
Profit % = $(\frac{1}{3})/1 \times 100 = 33.33\%$

Q13. A

$\gcd(14,22)=2$.

Q14. A

$\gcd(5,15)=5$.

Q15. D

Temporary !" permanent.