Infosys Mock Test 4 with Answer Key

Section I – Reasoning Ability (15 Questions, 15 Marks, 25 mins)

1. Find the odd one out:
   A) 729   B) 1331   C) 2197   D) 2401
2. A train runs at 90 km/h. In 10 seconds it passes a man. Find the length of the train.
   A) 250 m   B) 200 m   C) 150 m   D) 225 m
3. A can complete a work in 12 days, B in 15 days. They work together for 4 days, then B leaves. A completes the rest. Total time?
   A) 8 days   B) 9 days   C) 10 days   D) 11 days
4. If * means +, / means –, – means ×, + means ÷, then 12 – 6 / 3 + 2 * 4 = ?
   A) 18   B) 20   C) 22   D) 24
5. In a certain code, **DELHI** is coded as **EFMIJ**. How is **MUMBAI** coded?
   A) NVNCBJ   B) NVNCAJ   C) NVNDAJ   D) NVNCBK
6. Series: 2, 12, 36, 80, 150, ?
   A) 252   B) 248   C) 256   D) 260
7. Which word cannot be formed from **COMPUTERIZATION**?
   A) MOTION   B) PRIZE   C) CREATION   D) TEACH
8. Two statements:
   I. All actors are dancers.
   II. Some dancers are singers.
   Conclusion:
   A) Some singers are actors.
   B) All actors are singers.
   C) Some dancers are actors.
   D) None follow
9. If * stands for ÷, ÷ stands for ×, × stands for –, – stands for +, then 48 × 8 – 4 ÷ 2 * 4 = ?
   A) 68   B) 52   C) 64   D) 72
10. In how many ways can the letters of the word **PARADOX** be arranged?
    A) 7!   B) 7!/2!   C) 6!   D) 720
11. Ratio of ages of A and B is 3:5. After 9 years, ratio is 6:7. Find A's age.
    A) 21   B) 24   C) 27   D) 30
12. A clock shows 6:48. What is the angle between hour and minute hands?
    A) 66°   B) 72°   C) 78°   D) 84°
13. Which diagram shows: Teachers, Writers, Women?
    A) Three intersecting circles
    B) Two intersecting, one separate
    C) Three separate circles
    D) One inside another
14. If 5% of x = 20% of y, find x : y.
    A) 1:4   B) 2:5   C) 4:1   D) 5:2
15. Which cube will be opposite to the face showing 3 in a standard dice?
    A) 4   B) 5   C) 6   D) 2

Section II – Technical Ability (10 Questions, 10 Marks, 35 mins)

16. Which sorting algorithm has worst-case time $O(n^2)$ but best case $O(n)$?
    A) Bubble   B) Merge   C) Quick   D) Heap
17. In DBMS, which key uniquely identifies each row in a table?
    A) Foreign Key   B) Primary Key   C) Candidate Key   D) Super Key
18. What is output of `printf("%d", (5 & 3));` in C?
    A) 7   B) 1   C) 3   D) 5
19. OS deadlock avoidance is done using:
    A) Round Robin   B) Banker's Algorithm   C) Paging   D) Scheduling
20. Which is **not** a feature of OOP?
    A) Encapsulation   B) Inheritance   C) Abstraction   D) Compilation
21. In C, size of `int` on 32-bit compiler is:
    A) 2 bytes   B) 4 bytes   C) 8 bytes   D) Depends
22. Which data structure is best for BFS traversal?
    A) Stack   B) Queue   C) Tree   D) Heap
23. Which SQL query deletes table?
    A) DELETE   B) DROP   C) TRUNCATE   D) REMOVE
24. Which of these is not an NP-complete problem?
    A) Traveling Salesman   B) Subset Sum   C) Merge Sort   D) Knapsack
25. What does IP in networking stand for?
    A) Internet Provider   B) Internet Protocol   C) Internal Program   D) Instant Process

Section III – Verbal Ability (20 Questions, 20 Marks, 20 mins)

26. Synonym of **Obsolete**:
    A) Modern   B) Outdated   C) Current   D) Stylish
27. Antonym of **Transparent**:
    A) Clear   B) Opaque   C) Glassy   D) Bright
28. Fill: He is _____ honest man.
    A) a   B) an   C) the   D) none
29. Fill: She is married _____ a doctor.
    A) with   B) to   C) for   D) at
30. Error Spotting: Neither of the books are interesting.
    A) Neither   B) of   C) are   D) interesting
31. Rearrange: (P) the audience   (Q) he mesmerized   (R) with his voice
    A) PQR   B) QRP   C) QPR   D) PRQ
32. Cloze: He is _____ best student in the class.
    A) a   B) an   C) the   D) none
33. Idiom: "To beat around the bush" means:
    A) To talk indirectly   B) To hunt   C) To hit bushes   D) To fight

34. One word: A person who hates mankind.
    A) Philanthropist   B) Misogynist   C) Misanthrope   D) Optimist
35. Synonym of **Alleviate**:
    A) Increase   B) Worsen   C) Relieve   D) Delay
36. Antonym of **Melancholy**:
    A) Sad   B) Cheerful   C) Angry   D) Bright
37. Fill: She prefers tea _____ coffee.
    A) over   B) than   C) to   D) for
38. Correct spelling:
    A) Accomodate   B) Acommodate   C) Accommodate   D) Acomodete
39. Active-Passive: They are watching the movie.
    A) The movie is watched by them
    B) The movie is being watched by them
    C) The movie has been watched
    D) The movie watched by them
40. Direct-Indirect: He said, "I am tired."
    A) He said he is tired.
    B) He said that he was tired.
    C) He says he was tired.
    D) He said I was tired.
41. Error Spotting: The police is investigating the case.
    A) The   B) police   C) is   D) investigating
42. Choose correct sentence:
    A) He is senior to me.
    B) He is senior than me.
    C) He is more senior than me.
    D) He senior to me.
43. Idiom: "Throw in the towel" means:
    A) To win   B) To surrender   C) To rest   D) To delay
44. Antonym of **Artificial**:
    A) Fake   B) False   C) Natural   D) Unreal
45. Fill: He insisted _____ my going.
    A) for   B) on   C) at   D) over

Section IV – Pseudocode Test (5 Questions, 10 Marks, 10 mins)

46. What will be output?

```
x=5
y=10
x=x+y
y=x-y
x=x-y
print(x,y)
```

A) 10 5   B) 5 10   C) 15 -5   D) 0 15

47. Time complexity of:

```
for i=1 to n
  for j=1 to n
    print(i,j)
```

A) O(n)   B) O(n log n)   C) O(n²)   D) O(log n)

48. Output?

```
a=2
b=3
if(a^b > b^a)
  print("YES")
else
  print("NO")
```

A) YES   B) NO   C) ERROR   D) None

49. Time complexity of recursive Fibonacci?
    A) O(n)   B) O(2^n)   C) O(log n)   D) O(n²)
50. Which is not valid identifier in C?
    A) _name   B) 9value   C) value_9   D) name9

Section V – Numerical Puzzle (4 Questions, 10 Marks, 10 mins)

51. If 2=6, 3=12, 4=20, 5=30, then 7=?
    A) 42   B) 48   C) 56   D) 63
52. If A=1, B=4, C=9, D=16… then J=?
    A) 81   B) 90   C) 100   D) 121
53. If 8+2=81, 6+4=100, then 7+3=?
    A) 120   B) 121   C) 122   D) 123
54. Which number replaces ? → 2, 6, 12, 20, 30, ?
    A) 40   B) 41   C) 42   D) 44

Section VI – English Grammar (5 Questions, 10 Marks, 10 mins)

55. Fill: He is one of the best players _____.
    A) of the team   B) in the team   C) of team   D) in team
56. Correct sentence:
    A) She did not went there.

B) She does not went there.
C) She did not go there.
D) She not went there.
57. Spot error: Either of the answers are correct.
    A) Either   B) of   C) are   D) correct
58. By next month, I _____ my project.
    A) finish   B) finished   C) will finish   D) will have finished
59. The teacher asked me where I _____ going.
    A) am   B) was   C) were   D) be

Section VII – English Writing (1 Question, 10 Marks, 10 mins)

Choose ONE topic and write 150–200 words:

1. *"Artificial Intelligence will create more jobs than it destroys." Discuss with examples.*
2. *Draft an email to your HR Manager requesting a week of work-from-home due to a medical emergency.*
3. *Do you think social media influencers positively or negatively impact the career aspirations of youth?*

☑ Answer Key (Q1–59)

1-D 2-B 3-B 4-A 5-A
6-C 7-D 8-C 9-B 10-B
11-B 12-C 13-A 14-C 15-C

16-A 17-B 18-B 19-B 20-D
21-B 22-B 23-B 24-C 25-B

26-B 27-B 28-B 29-B 30-C
31-C 32-C 33-A 34-C 35-C
36-B 37-C 38-C 39-B 40-B
41-C 42-A 43-B 44-C 45-B

46-A 47-C 48-B 49-B 50-B

51-C 52-C 53-B 54-C

55-B 56-C 57-C 58-D 59-B