

# EXAM Grace Academy

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## INTELLIGENCE (Reasoning)

### ALPHABETICAL SERIES

In this chapter, alphabets or a group of alphabets are written in various patterns like in continuation, ascending, descending, and skipping, as per vowels and consonants a series of alphabets is given. Students are required to find the pattern to complete the series.

Complete English alphabets numbered in ascending and descending order are appended below. Students are advised to remember this series both ascending and descending order with serial number, it will help the student to solve the problems:

#### Alphabets are in ascending/descending orders

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| A  | B  | C  | D  | E  | F  | G  | H  | I  | J  | K  | L  | M  | N  | O  | P  | Q  | R  | S  | T  | U  | V  | W  | X  | Y  | Z  |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  |

### EXERCISE FOR PRACTICE

Find next term in the series :

1. A, C, E, G .....
2. AA, BB, CC, DD.....
3. Z<sup>3</sup>, Y<sup>6</sup>, X<sup>9</sup>, W<sup>12</sup>.....
4. Z, V, Q, L .....
5. DE, FG, HI, JK .....
6. YBC, XDE, WFG, VHI.....
7. A,D, H, M, S .....
8. AA, EB, IC, OD.....
9. U6, S8, P11 L15 .....
10. A26, B25, C24, D23 .....
11. E3, G5, J7, N10.....
12. ZU, YO, XI, WE.....
13. S8, R9, Q10, P11 .....
14. C<sup>3</sup>, E<sup>5</sup>, G<sup>7</sup>, I<sup>9</sup>.....
15. QA, PB, OC, D .....
16. A, M, B, L ? ?
17. E, H, K, V, S .....
18. A, E, I, O .....
19. A2B, C3D, E4F, G5H.....
20. Q10, J10, O12, L12 .....

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Find next term in the series :

- |   |                              |
|---|------------------------------|
| 21. Z261, A126, Y252, B225, X243.....                                       | 22. NZ, OY, PX, QW, RV.....  |
| 23. XW, TS, PO, LK .....  | 24. Ee, Hh, Kk, Nn.....      |
| 25. AB2, Z1Y2, C3D4, X3W4.....  | 26. D/4, F/6, H/8, J/10..... |
| 27. L, N, P, R.....   | 28. T, V, X, Z.....          |
| 29. WX, RS, MN, HI.....   | 30. PQ, RS, KL.....          |
| 31. RSRs, TUVU, RSRs TUVU.....  | 32. AZ, BY, CX, DW.....      |
| 33. X <sub>3</sub> , V <sub>5</sub> , T <sub>7</sub> , R <sub>9</sub> ..... | 34. D, F, H, J.....          |
| 35. Y, W, U, S .....  | 36. O, Q, S, U .....         |
| 37. X, T, P, L.....   | 38. AC, EG, IK, MO.....      |
| 39. C, E, H, L.....   | 40. AZ, CX, FU.....          |

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## Solutions

| Q No | Answer          | Solutions   |                |                |                 |                   |   |
|------|-----------------|---|----------------|----------------|-----------------|-------------------|---|
| 1.   | I               | A   | C              | E              | G               | I                 |   |
|      | <b>Hints</b>    | In this series next alphabet come after kipping one alphabet. Hence next alphabet is I.                                   |                |                |                 |                   |   |
| 2.   | EE              | AA  | BB             | CC             | DD              | EE                |   |
|      | <b>Hints</b>    | In this series alphabets doubled and continuous, hence next alphabets are <b>EE</b> .                                     |                |                |                 |                   |   |
| 3.   | V <sup>15</sup> | Z <sup>3</sup>  | Y <sup>6</sup> | X <sup>9</sup> | W <sup>12</sup> | V <sup>15</sup>   |   |
|      | <b>Hints</b>    | Series combined the alphabets in descending order with the factor of 3, hence next figure is V <sup>15</sup>              |                |                |                 |                   |   |
| 4.   | G               | Z   | V              | Q              | L               | G                 |   |
|      | <b>Hints</b>    | Difference of (-5) between each alphabets, Hence answer is G.   |                |                |                 |                   |   |
| 5.   | LM              | DE  | FG             | HI             | JK              | LM                |   |
|      | <b>Hints</b>    | Series have continuous alphabets. Hence answer is <b>LM</b> .   |                |                |                 |                   |   |
| 6.   | UJK             | YBC   | XDE            | WFG            | VHI             | UJK               |   |
|      | <b>Hints</b>    | Last two letters of the series are alphabets in ascending order, whereas first letter is continuous in descending order.  |                |                |                 |                   |   |
| 7.   | Z               | A   | D              | H              | M               | S                 | Z |
|      | <b>Hints</b>    | +3  | +4             | +5             | +6              | +7                |   |
| 8.   | UE              | AA  | EB             | IC             | OD              | UE                |   |
|      | <b>Hints</b>    | First letters are vowels and second letters are consonants in ascending order.  |                |                |                 |                   |   |
| 9.   | G20             | U6  | S8             | P11            | L15             | G20               |   |
|      | <b>Hints</b>    | +2  | +3             | +4             | +5              | Descending order. |   |
| 10.  | E22             | A26   | B25            | C24            | D23             | E22               |   |
|      | <b>Hints</b>    | Series in descending order.   |                |                |                 |                   |   |
| 11.  | S14             | E3  | G5             | J7             | N10             | S14               |   |
|      | <b>Hints</b>    | Alphabets are in ascending order in the series of (+2, +3 +4, +5) and numbers is actual serial number of the letters (-2) |                |                |                 |                   |   |
| 12.  | VA              | ZU  | YO             | XI             | WE              | VA                |   |
|      | <b>Hints</b>    | Consonants and vowels are in descending order.  |                |                |                 |                   |   |
| 13.  | O12             | S8  | R9             | Q10            | P11             | O12               |   |
|      | <b>Hints</b>    | Increasing order in descending serial number of alphabets.  |                |                |                 |                   |   |

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| Q No | Answer          | Solutions  |                |                |                            |                 |      |  |
|------|-----------------|--|----------------|----------------|----------------------------|-----------------|------|--|
| 14.  | K <sup>11</sup> | C <sup>3</sup>   | E <sup>5</sup> | G <sup>7</sup> | I <sup>9</sup>             | K <sup>11</sup> |      |  |
|      | <b>Hints</b>    | The series have odd numbers  |                |                |                            |                 |      |  |
| 15   | ME              | QA   | PB             | OC             | ND                         | ME              |      |  |
|      | <b>Hints</b>    | Q, P, O, N, M (Descending alphabetical series) and A, B, C, D, E (Alphabetical series in ascending order)                  |                |                |                            |                 |      |  |
| 16.  | CK              | A  | M              | B              | L                          | C               | K    |  |
|      | <b>Hints</b>    | Series having ascending order and descending order   |                |                |                            |                 |      |  |
| 17.  | P               | E  | H              | K              | V                          | S               | P    |  |
|      | <b>Hints</b>    | ( +3 ) in ascending order  |                |                | ( +3 ) in descending order |                 |      |  |
| 18.  | U               | A  | E              | I              | O                          | U               |      |  |
|      | <b>Hints</b>    | All are vowels in ascending order.   |                |                |                            |                 |      |  |
| 19.  | J6J             | A2B  | C3D            | E4F            | G5H                        | I6J             |      |  |
|      | <b>Hints</b>    | Mixed series with alphabets and numbers in ascending order.  |                |                |                            |                 |      |  |
| 20.  | M14             | Q10  | J10            | O12            | L12                        | M14             |      |  |
|      | <b>Hints</b>    | Mixed with alphabets and their serial number ascending and descending order  |                |                |                            |                 |      |  |
| 21.  | C324            | Z261   | A126           | Y252           | B225                       | X243            | C324 |  |
|      | <b>Hints</b>    | Mixed with alphabets and their serial number ascending and descending order (Z=26,1) (A=1,26), (Y=25,2) (B=2, 25) (X=24,3) |                |                |                            |                 |      |  |
| 22.  | SU              | NZ   | OY             | PX             | QW                         | RV              | SU   |  |
|      | <b>Hints</b>    | Mixed alphabets with ascending and descending series.  |                |                |                            |                 |      |  |
| 23.  | HG              | XW   | TS             | PO             | LK                         | HG              |      |  |
|      | <b>Hints</b>    | Alphabetical series in descending order  |                |                |                            |                 |      |  |
| 24.  | Qq              | Ee   | Hh             | Kk             | Nn                         | Qq              |      |  |
|      | <b>Hints</b>    | Mixed of capital and small alphabets in ascending order.   |                |                |                            |                 |      |  |
| 25.  | E5F6            | A1B2   | Z1Y2           | C3D4           | X3W4                       | E5F6            |      |  |
|      | <b>Hints</b>    | Mixed of alphabets and serial number in ascending and descending order.  |                |                |                            |                 |      |  |
| 26.  | L/12            | D/4  | F/6            | H/8            | J/10                       | L/12            |      |  |
|      | <b>Hints</b>    | Mixed of skipping alphabets and serial numbers in ascending order.   |                |                |                            |                 |      |  |

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| Q No | Answer          | Solutions   |                |                |                |                 |  |  |
|------|-----------------|---|----------------|----------------|----------------|-----------------|--|--|
| 27.  | T               | L   | N              | P              | R              | T               |  |  |
|      | <b>Hints</b>    | Skipping one alphabet series in ascending order.                        |                |                |                |                 |  |  |
| 28.  | B               | T   | V              | X              | Z              | B               |  |  |
|      | <b>Hints</b>    | (+2) in alphabets series in ascending order.                            |                |                |                |                 |  |  |
| 29.  | CD              | WX  | RS             | MN             | HI             | CD              |  |  |
|      | <b>Hints</b>    | Gap of three letters in descending order.                               |                |                |                |                 |  |  |
| 30.  | ML              | PQ  | RS             | KL             | MN             |                 |  |  |
|      | <b>Hints</b>    | Pair of alphabets in ascending order.                                   |                |                |                |                 |  |  |
| 31.  | RSR             | RSRS  | TUVU           | RSRS           | TUVU           | RSRS            |  |  |
|      | <b>Hints</b>    | Series following a pattern.   |                |                |                |                 |  |  |
| 32.  | EV              | AZ  | BY             | CX             | DW             | EV              |  |  |
|      | <b>Hints</b>    | Following a pattern of mixed alphabets in ascending & descending order  |                |                |                |                 |  |  |
| 33.  | P <sub>11</sub> | X <sub>3</sub>  | V <sub>5</sub> | T <sub>7</sub> | R <sub>9</sub> | P <sub>11</sub> |  |  |
|      | <b>Hints</b>    | Pattern of alphabets and serial number in descending order.             |                |                |                |                 |  |  |
| 34.  | L               | D   | F              | H              | J              | L               |  |  |
|      | <b>Hints</b>    | Alternate alphabets in continuation with ascending order                |                |                |                |                 |  |  |
| 35.  | Q               | Y   | W              | U              | S              | Q               |  |  |
|      | <b>Hints</b>    | Alternate letters in continuation with descending order.                |                |                |                |                 |  |  |
| 36.  | W               | O   | Q              | S              | U              | W               |  |  |
|      | <b>Hints</b>    | Alternate alphabets in ascending order.                                 |                |                |                |                 |  |  |
| 37.  | H               | X   | T              | P              | L              | H               |  |  |
|      | <b>Hints</b>    | (-4) in alphabets in descending order.                                  |                |                |                |                 |  |  |
| 38.  | QS              | AC  | EG             | IK             | MO             | QS              |  |  |
|      | <b>Hints</b>    | Skipping one alphabets series   |                |                |                |                 |  |  |
| 39.  | Q               | C   | E              | H              | L              | Q               |  |  |
|      | <b>Hints</b>    | Skipping series by 1, 2, 3, places etc.                                 |                |                |                |                 |  |  |
| 40.  | JQ              | AZ  | CX             | FU             | JQ             |                 |  |  |
|      | <b>Hints</b>    | Skipping series 1, 2, 3 in ascending and descending order of alphabets. |                |                |                |                 |  |  |

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