

Direction Test

Past Trends

Attempt	Total
May 2018	6
Nov 2018	4
Jun 2019	4
Nov 2019	5
Nov 2020	4
Jan 2021	3
Jul 2021	5
Dec 2021	5
Jun 2022	5
Dec 2022	4
Jun 2023	5

Direction Test

Question Requirements	<ul style="list-style-type: none"> • Here questions consist of a sort of direction puzzle. • A successive follow-up of direction is formulated and • the students are required to ascertain the final direction or • direction with respect to starting points or • other related problems. 		
Types of Question	Type	Requirement	Remark
	Type I	Finding final direction	Distance can be ignored
	Type II	Finding the direction with respect to original point	Distances are important
	All other varieties	Multiple	No Remark

MCQs

Exercise

A man starts from a point, walks 4 miles towards north and turns left and walks 6 miles, turns right, and walks for 3 miles and again turns right and walks 4 miles and takes rest for 30 minutes. He gets up and walks straight 2 miles in the same direction and turns right and walks one mile. What is the direction he is facing?

- a. North b. South c. South-East d. West

Ans: b

Exercise

Arun started from point A and walked 10 kms East to point B, then turned to North and walked 3 kms to point C and then turned West and walked 12 kms to point D, then again turned South and walked 3 kms to point E. In which direction is he from his start point?

- a. East b. South c. West d. North

Ans: c



Exercise

A tourist drives 10 km towards west and turns to left and takes a drive of another 4 km. He then drives towards east another 4 km and then turns to his right and drives 5 km. Afterwards he turns to his left and travels 6 km. In which direction is he from the starting point?

- a. East b. South c. West d. North

Ans: b**Exercise**

Raju facing North and moves 20 kms, then he turned to his right and moves 20 kms and then he moves 10 kms in North-East, then he turned to his right and moves 20 kms and then he turned to his right and moves 20 kms and again he turned to his left and moves 20 kms. Now in which direction Raju is facing?

- a. South-East b. North-East
c. South-West d. North-West

Ans: a**Exercise**

Five boys A, B, C, D and E are sitting in a park in a circle. A is facing South-West, D is facing South-East, B and E are right opposite A and D respectively and C is equidistant between D and B. Which direction is C facing?

- a. West b. South c. North d. East

Ans: d**Exercise
(Modified)**

Daily in the morning the shadow of Gol Gumbaz falls on Bara Kaman and in the evening the shadow of Bara Kaman falls on Gol Gumbaz exactly. So, in which direction is Bara Kaman to Gol Gumbaz?

- a. Eastern b. Western c. Northern d. Southern

Ans: b**Exercise**

If X stands on his head with his face towards south, to which direction will his left-hand point?

- a. East b. West c. North d. South

Ans: b**PYQ May 18**

I stand with my right-hand extended side-ways towards South. Towards which direction will my back be?

- a. North b. West c. East d. South

Ans: b**Exercise**

Roy walks 2 kms to East, then turns North-West and walks 3 kms. Then he turns South and walks 5 kms. Then again, he turns West and walks 2 kms. Finally, he turns North and walks 6 kms. In which direction, is he from the starting point?

- a. South-East b. North-East
c. South-West d. North-West

Ans: d**Example**

Gopal started walking 2 kms straight from his school. Then he turned right and walked 1 km. Again, he turned right and walked 1 km to reach his house. If his house is south-east from his school, then in which direction did Gopal start walking from the school?

- a. North b. West c. East d. South

Ans: c

MTP

One evening before sunset, two friends Ravi and Raj were talking to each other face to face. If Ravi's shadow was exactly to his left side, which direction was Raj facing?

- a. North b. West c. East d. South

Ans: a

MTP

Kiran walks 2 km towards North then he turns East and walks 10 km. After this he turns North and walks 3 km. Again, he turns towards East and walks 2 km. How far is he from the starting point?

- a. 10 km b. 13 km c. 15 km d. 17 km

Ans: b

MTP

Ramu moved 75 meters towards North. He then turned to left and after walking about 25 meters, turned left again and walks 80m. Finally, he turned to the right at an angle of 45° . In which direction was he moving finally?

- a. South-East b. North-East
c. South-West d. North-West

Ans: c

PYQ Nov 20

One day Ram left home and cycled 10 km southward, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kms will he have to cycle to reach his home straight?

- a. 10 b. 15 c. 20 d. 25

Ans: b

PYQ Nov 20

A man is facing west, he turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anti-clockwise direction. Which direction is he facing now?

- a. South-West b. North-West c. West d. South

Ans: a

PYQ Dec 21

The hour hand of a clock is in west direction when time is 3 o'clock. What is the direction of minutes hand when time is 6:45?

- a. East b. North c. West d. South

Ans: a

PYQ Jun 19

A person facing North moves 70° in clockwise direction. He again moved 300° in clockwise direction. In which direction is he facing now?

- a. North – West b. South – East c. North – East d. South – West

Ans: c

PYQ Jul 21

One morning after sunrise, Vikram and Shailesh were standing in a down with their back towards each other. Vikram's shadow fell exactly towards left hand side. Which direction was Shailesh facing?

- a. South – West b. West c. South d. East-South

Ans: c



PYQ Nov 20

A man can walk by having long, medium and short steps. He can cover 60 meters by 100 long steps, 100 meters by 200 medium steps and 80 meters by 200 short steps, he walks taking 5000 long steps, then he turns left and walk by taking 6000 medium steps. He then turns right and walk by taking 2500 short steps. How far (in meters) is he away from his starting point?

- a. 5000m b. 4000m c. 6000m d. 7000m

Ans: a

PYQ Jan 21

Ms. N walks 10km towards North from there she walks 6km towards South. Then she walks 3km towards East. How far and in which direction is she with reference to her starting point?

- a. 4km West b. 6km West c. 3km East d. 5km North East

Ans: d

PYQ Jul 21

There are four towns P, Q, R and T. Q is the South – West of P, R is to the East of Q and South – East of P and T is to the North of R in line with QP. In which direction of P is T located?

- a. North b. North-East c. East d. South-East

Ans: b



Chp9: Number Series, Coding, Decoding, Odd Man Out

Past Trends

Attempt	Total
May 2018	3
Nov 2018	5
Jun 2019	4
Nov 2019	6
Nov 2020	6
Jan 2021	5
Jul 2021	5
Dec 2021	6
Jun 2022	7
Dec 2022	6
June 2023	5

Basics

Number Series	<ul style="list-style-type: none"> In this type of questions, we need to identify the missing term of the series real according to a specific pattern of the series rule to form its code. The students are required to detect the missing number of the series and answer the questions accordingly. 				
Alphabet Series	<ul style="list-style-type: none"> Alphabet series consists of letters of the alphabet placed in a specific pattern. 				
Coding and Decoding	<ul style="list-style-type: none"> Coding: converting original message into code Decoding: converting code into original message Types: Number Coding, Letters Coding etc. 				
Odd Man Out	<ul style="list-style-type: none"> In these questions, four or five elements are given, out of which one does not belong to the group, we need to identify it. 				
Classification of MCQs	<table border="1"> <tr> <td>Quickly Identifiable</td> <td>Pattern which can be identified instantly during exams</td> </tr> <tr> <td>Not Quickly Identifiable (Advance)</td> <td>Pattern which required lot of thinking and even after that there is no surety that it will click on spot</td> </tr> </table>	Quickly Identifiable	Pattern which can be identified instantly during exams	Not Quickly Identifiable (Advance)	Pattern which required lot of thinking and even after that there is no surety that it will click on spot
	Quickly Identifiable	Pattern which can be identified instantly during exams			
Not Quickly Identifiable (Advance)	Pattern which required lot of thinking and even after that there is no surety that it will click on spot				

MCQs

Example 2, 7, 16, _____, 46, 67, 92
 a. 31 b. 29 c. 26 d. None
Ans: b (difference of difference)

Example Find the wrong term:
 9, 29, 65, 126, 217, 344
 a. 65 b. 126 c. 217 d. 29
Ans: d (cube + 1)



Example If in a certain language MYSTIFY is coded as NZTUJGZ, how is MENESIS coded in that language?
 a. NFOFTJT b. NZUJZG c. ZUJNTJ d. None
Ans: a (+1 for all letters)

Example If in a certain language CARROM is coded as BZQQNL, which word will be coded as HORSE?
 a. GNQRD b. GQRDE c. IPSTF d. GNQDR
Ans: c (Coding -1 & Decoding + 1)

Example In a certain code, MENTION is written as LNEITNO. How is PRESENT written in that code?
 a. OERESTN b. TNESREP c. OTRSNEE d. None
Ans: a (First letter -1 and other are pair swapping)

Example Find wrong term:
 1, 5, 14, 30, 51, 55, 91
 a. 5 b. 55 c. 51 d. 91
Ans: c (Gap of squares)

Exercise 120, 80, 40, 45, ?, 15
 a. 15 b. 20 c. 25 d. 30
Ans: d (RIP Logic – splitting terms)

Exercise 1, 1, 4, 8, 9, ?, 16, 64
 a. 27 b. 28 c. 32 d. 40
Ans: a (alternate squares cubes)

Exercise 1, 2, 6, 7, 21, 22, 66, ?, 201
 a. 69 b. 68 c. 67 d. 69
Ans: c (+1 ×3)

Exercise 2, 3, 3, 5, 10, 13, 39, ?, 172, 177
 a. 42 b. 44 c. 43 d. 40
Ans: c (+1 ×1, +2 ×2, ...)

Exercise 8, 28, 116, 584, ?
 a. 1752 b. 3502 c. 3504 d. 3508
Ans: d (×3 + 3, ×4 + 4, ×5 + 4 ...)

Exercise 5, 2, 7, 9, 16, 25, 41, __
 a. 65 b. 66 c. 67 d. 68
Ans: b (every new term is the sum of last two terms)

Exercise If RED is coded as 6720 then GREEN would be coded as
 a. 9207716 b. 167129 c. 1677209 d. 1672091
Ans: c (letter position + 2 then reverse order)

Exercise If MEKLF is coded as 91782 and LLLJK as 88867, how can IHJED is coded as?
 a. 97854 b. 64512 c. 54610 d. 75632
Ans: c (letter position starting from D as 0, E as 1 and so on)



Exercise In a certain code '256' means 'you are good', '637' means 'we are bad' and '358' means 'good and bad'. Which of the following represents 'and' in that code?
 a. 2 b. 5 c. 8 d. 3

Ans: c (common words in sentences can be linked with common digit)

Exercise 835, 734, 642, 751, 853, 981, 532
 a. 751 b. 853 c. 981 d. 532

Ans: a (first digit is the sum of next two digits)

PYQ Jun 19 Find the next term: 7, 23, 47, 119, 167
 a. 211 b. 223 c. 287 d. 319

Ans: c (square of prime number - 2)

MTP Find missing term of letter series A, CD, GHI, ____, UVWXY
 a. LMNO b. MNO c. MNOP d. NOPQ

Ans: c (alphabet sequence with gap and increasing number of alphabets in every next term)

MTP In a certain code, "CLOUD" is written as "GTRKF". How is "SIGHT" written in that code?
 a. UGHHT b. UHJFW c. WFJGV d. WGJHV

Ans: d (+3, -1, +3, -1 and reverse order)

MTP In a certain code "SOUTHERN" is written as "UVPTMQDG". How is MARIGOLD written in that code?
 a. JSBCNFKS b. JSBNHPME c. JSBNCKNF d. NBSKCJNF

Ans: c (+1 for first four terms, -1 for next four terms then reverse order for each half)

MTP If system is coded as 131625 then TERMS will be coded as?
 a. 62251 b. 62451 c. 64251 d. 62415

Ans: b (option-based mapping)

MTP The missing term of the series 11, 10, __, 27, 66.5, 198.5
 a. 14 b. 16 c. 21 d. 19

Ans: a ($\times 1-1$, $\times 1.5-1$, $\times 2-1$, ...)

PYQ Jan 21 Find the missing term: P 3 C, R 5 F, T 8 I, V 12 L, ?
 a. Y17O b. X17M c. X17O d. X16O

Ans: c (+2+2+3, +2+3+3, +2+4+3, ...)

PYQ Nov 20 Find wrong term in G4T, J10R, M20P, P43N, S90L
 a. M20P b. P43N c. J10R d. G4T

Ans: c ($\times 2+1$, $\times 2+2$, $\times 2+3$, $\times 2+4$)

MTP In a certain code KAVERI is written as VAKIRE. How is MYSORE written in that code?
 a. EROSYM b. SYMORE c. SMYERP d. SYMERO

Ans: d (half half reverse)

PYQ Jun 19 Which of the following is odd one 4, 12, 44, 176, 890.....
 a. 4 b. 12 c. 44 d. 176

Ans: c ($\times 2+4$, $\times 3+6$, $\times 4+8$, $\times 5+10$)

