



Marathon 2

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NISH10

Schedule

Date (Day)	Topic
12-06-2023 (Monday)	Time Value of Money
13-06-2023 (Tuesday)	Logical Reasoning
14-06-2023 (Wednesday)	Measures of Central Tendency and Dispersion
15-06-2023 (Thursday)	Ratio, Proportion, Indices, Logarithms; Linear Inequalities
16-06-2023 (Friday)	Equations; Statistical Description of Data
17-06-2023 (Saturday)	Sequence and Series
18-06-2023 (Sunday)	Sets, Relations, and Functions
19-06-2023 (Monday)	Correlation and Regression
20-06-2023 (Tuesday)	Index Numbers
21-06-2023 (Wednesday)	Permutations and Combinations
22-06-2023 (Thursday)	Probability
23-06-2023 (Friday)	Theoretical Distributions

Highlights



Conceptual Revision



Question Based Revision



Last Day Preparation Tips



Questions to Revise on the
day before ExamQuizzes

Blood Relations

Question 1 – December, 2020

Pointing to a lady, Sahil said, “She is the daughter of the woman who is the mother of the husband of my mother”. What is the lady to Sahil?

- (a) Aunt (b) Sister (c) Daughter (d) Sister-in-law

Question 2 – January, 2021

A girl introduced a boy as the son of the daughter of father of her uncle. The boy is girl's:

- (a) Son (b) Brother (c) Son-in-law (d) Uncle

Question 3 – January, 2021

Pointing to a lady in a photograph, Ram said “Her son’s father is the son in law of my mother”. How is Ram related to the lady?

(a) Aunt

(b) Cousin

(c) Sister

(d) Mother

Question 4 – January, 2021

P is the brother of Q and R, S is the mother of R. T is the father of P. Which of the following statements cannot be definitely true?

- (a) S is the mother of P
- (c) T is the husband of S

- (b) P is the son of S
- (d) Q is the son of T

Question 5 – December, 2020

Pointing to a lady, A said, “that woman is my nephew’s maternal grandmother”. How is that woman related to A’s sister who has no sister?

- (a) Cousin (b) Son-in-law (c) Mother (d) Mother-in-law

Question 6 – June, 2019

A man said to a lady “your mother’s husband’s sister is my Aunt.” How is the man related to the lady?

(a) Mother

(b) Sister

(c) Father

(d) Brother

Question 7 – June, 2019

Pointing to an old man, Kailash said, “His son is my son’s uncle”. How is Kailash related to that old man?

- (a) Brother (b) Either Son or Son-in-Law (c) Father (d) Grandfather

Question 8 – November, 2018

Pointing to a man in a photograph, a woman said, “the father of his brother is the only son of my grandfather”, how is the woman related to the man in the photograph?

(a) Mother

(b) Aunty

(c) Daughter

(d) Sister

Question 9 – ICAI SM

A prisoner introduced a boy who came to visit him to the jailor as “Brothers and sisters I have none, he is my father’s son’s son”. Who is the boy?

(a) Nephew

(b) Son

(c) Cousin

(d) Uncle

Question 10 – MTP June, 2021

In a family, there are six members A, B, C, D, E and F. A and B are a married couple, A being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died. How is E related to C?

- (a) Sister (b) Daughter (c) Cousin (d) Mother

Question 11 – MTP June, 2021

If $A + B$ means A is brother of B, $A - B$ means A is sister of B, and $A \times B$ means A is the father of B, which of the following means that C is the son of M?

- (a) $M - N \times C + F$ (b) $F - C + N \times M$ (c) $N + M - F \times C$ (d) $M \times N - C + F$

Question 12 – MTP May, 2020

Read the following information and answer the question:

'A + B' means 'A is the daughter of B'

'A × B' means 'A is the son of B'

'A – B' means 'A is the wife of B'

If $P \times Q - S$, which of the following is true:

(a) S is the wife of B

(c) P is the daughter of Q

(b) S is the father of P

(d) Q is the father of P

Question 13 – MTP November, 2019

Read the following information carefully to answer the questions that follow.

1. 'P + Q' means 'P is father of Q'
2. 'P – Q' means 'P is mother of Q'
3. 'P × Q' means 'P is brother of Q'
4. 'P ÷ Q' means 'P is sister of Q'

Which of the following means 'M' is maternal uncle of T?

- (a) $M \div K - T$ (b) $M \times K - T$ (c) $M \times K + T$ (d) $M \div K + T$

Question 14 – ICAI SM

Pointing to a lady in a photograph. Meera said. “Her father’s only son’s wife is my mother-in-law.” How is Meera’s husband related to that lady in the photo?

(a) Nephew

(b) Uncle

(c) Son

(d) Father

Question 15 – MTP June, 2023

Suresh's sister is the wife of Ram. Ram is Rani's brother. Ram's father is Madhur. Sheetal is Ram's grandmother. Rema is Sheetal's daughter-in-law. Rohit is Rani's brother's son. Who is Rohit to Suresh?

(a) Brother in law

(b) Son

(c) Brother

(d) Nephew

Question 16

If Neha says, “Amruta’s father Raj is the only son of my father-in-law Mahesh.” Then, how Bindu, who is the sister of Amruta, is related to Mahesh?

- (a) Daughter (b) Wife (c) Daughter-in-law (d) Granddaughter

Question 17

If the uncle of the father of Rani is the grandson of the father of Anup and Anup is the only son of his father, then how Anup is related to Rani?

- (a) Grandfather (b) Uncle (c) Maternal Uncle (d) Great Grandfather

Question 18

Madhu said, “My mother’s only son Ashok has no son”. Which of the following can be concluded?

- (a) Ashok has only daughters
- (c) Ashok has only one sister

- (b) Ashok is not married
- (d) None

Question 19 – December, 2022

When Rani saw Vinit, she recollected that “He is the brother of my grandfather’s son”.
How is Rani related to Vinit?

(a) Aunt

(b) Daughter

(c) Sister

(d) Niece

Question 20 – MTP June, 2023

A + B means, “A is the son of B”; A – B means, “A is the daughter of B”; A * B means, “A is the wife of B”; A \$ B means, “A is the sister of B”. If A \$ B – C * D is true, how is D related to B?

- (a) Wife (b) Father (c) Grandmother (d) Grandfather

Seating Arrangements

Question 1 – January, 2021

Five friends A, B, C, D and E are sitting on a bench. A is sitting next to B; C is sitting next to D, D is not sitting with E; E is at the left end of bench. C is on second position from the right; A is on the right side of B who is the right side of E. A and C are sitting together. What is the position of B?

- (a) Second from Right (b) Centre (c) Extreme Left (d) Second from Left

Question 2 – ICAI SM

Four Indians, A, B, C and D and four Chinese E, F, G and H are sitting in a circle around a table facing each other in a conference. No two Indians or Chinese are sitting side by side. C who is sitting between G and E is facing D, F is between D and A and facing G, H is to the left of B. Who is sitting left of A?

(a) E

(b) F

(c) G

(d) H

Question 3 – January, 2021

A is seated between D and F at a round table. C is seated opposite to D. E is left to D. Who sits opposite to B?

(a) A

(b) D

(c) C

(d) F

Question 5 – December, 2020

Eight friends I, J, K, L, M, N, O and P are sitting in a circle facing the centre. J is sitting between O and L; P is third to the left of J and second to the right of I; K is sitting between I and O; J & M are not sitting opposite to each other. Which of the following statements is NOT correct?

- (a) K is sitting third to the right of L
- (b) I is sitting between K and N
- (c) L and I are sitting opposite to each other
- (d) M is sitting between N and L

Question 6 – December, 2020

Five girls G, H, I, J, K are sitting in a row facing south not necessarily in the same order. H is sitting between G and K; I is immediate right to K; J is immediate left to G. Which of the following is true?

- (a) J is third to the left of K
- (b) G is second to the left of I
- (c) H is to the right of K
- (d) H is to the left of G

Question 7 – November, 2019

5 persons are standing in a line. One of the 2 persons at the extreme ends is a professor and the other is a businessman. An advocate is standing to the right of a student. An author is to the left of the business man. The student is standing between the professor and advocate. Counting from left, the author is at which place?

(a) 2nd

(b) 3rd

(c) 4th

(d) None

Question 8 – November, 2019

Six persons are sitting in a circle facing the center. Parikh is between Bablu and Narender; Ashok is between Chitra and Pankaj. Chitra is on the immediate left of Bablu. Who is on the immediate right of Bablu?

(a) Parikh

(b) Pankaj

(c) Narender

(d) Chitra

Question 9 – November, 2018

Eight persons A, B, C, D, E, F, G and H are sitting in a line. E sits second right to D. H sits fourth left to D. C and F are immediate neighbours, but C is not immediate neighbour of A. G is not neighbour of E. Only two persons sit between A and E. The persons on left end and right end respectively are:

- (a) G and E (b) B and E (c) H and E (d) G and B

Question 10 – November, 2018

Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U. Q gets a North facing flat and it is not next to S. S and U get diagonally opposite flat. R next to U gets a South facing flat and T gets a North facing flat. Who's flat is between Q and S?

(a) T

(b) U

(c) R

(d) P

Question 11 – MTP November, 2020

Five people A, B, C, D and E are seated about a round table. Every chair is spaced equidistant from adjacent chairs.

1. C is seated next to A
2. A is seated two seats from D
3. B is not seated next to A

Which of the following must be true?

1. D is seated next to B
2. E is seated next to A

Select the correct answer from the codes given below:

- (a) Only 1 (b) Only 2 (c) Both (d) Neither

Question 12 – ICAI SM

Ten students are A to J are sitting in a row facing west.

1. B and F are not sitting on either of the edges.
2. G is sitting left of D and H is sitting to the right of J.
3. There are four persons between E and A.
4. I is the north of B and F is the south of D.
5. J is between A and D and G is in E and F.
6. There are two persons between H and C.

If G and A interchange their positions, then who become the immediate neighbours of E?

- (a) G and F (b) Only F (c) Only A (d) J and H

Question 13 – July, 2021

Six friends P, Q, R, S, T and U are sitting around a hexagonal table each at one corner and are facing the centre of the hexagon. P is second to the left of U. Q is the neighbour of R and S. T is second to the left of S.

Which one is sitting opposite to P?

(a) R

(b) Q

(c) T

(d) S

Question 14

Four boys and four girls are sitting around a square facing the centre. One person is sitting at each corner and at the mid-point of each side of the square. Madhu is sitting diagonally opposite to Usha who is to the right of Geeta. Ram who is to the left of Geeta is diagonally opposite to Gopi who is to the left of Bose. Position of Suma is not to the right of Madhu but in front of Prema. Who is sitting opposite to Bose?

(a) Geeta

(b) Prema

(c) Getta

(d) Madhu

Question 15

Six people – K, L, M, N, O and P live on six different floors of a building not necessarily in the same order. The lower most floor of the building is numbered 1, the one above is numbered 2 and so on till the top most floor numbered 6. L lives on an even numbered floor. L lives immediately below K's floor and immediately above M's floor. P lives immediately above N's floor. P lives on an even numbered floor. O does not live on floor number 4.

Three of the following four are alike in a certain way based on the given arrangement and hence form a group. Which of the following does not belong to that group?

(a) MN

(b) OL

(c) KM

(d) PK

Question 16

A, B, C, D, E, F and G are sitting on a wall and all of them are facing East. C is on the immediate right of D. B is at an extreme end and has E as his neighbour. G is between E and F. D is sitting third from the South end.

Which of the following pairs of people is sitting at the extreme ends?

(a) AB

(b) AE

(c) CB

(d) FB

Question 17 – MTP June, 2023

Five students are standing in a circle. Abhinav is between Alok and Ankur. Apurva is on the left of Abhishek. Alok is on the left of Apurva. Who is sitting next to Abhinav on his right?

(a) Apurva

(b) Ankur

(c) Abhishek

(d) Alok

Question 18 – MTP June, 2023

P, Q, R, S, and T are seated in a line facing west. R is sitting at north end and S is sitting at south end. T is neighbour of R and Q. P and Q are seated together, then who is sitting the middle?

(a) P

(b) Q

(c) R

(d) S

Question 19 – MTP June, 2023

Eight friends A, B, C, D, E, F, G and H are sitting in a circle facing the Centre, B is sitting between G and D. H is third to the left of B and second to the right of A. C is sitting between A and G and B and E are not sitting opposite to each other. Which of the following statement is not correct ?

- (a) D and A are sitting opposite to each other
- (b) C is third to the right of D
- (c) E is sitting F and D
- (d) A is sitting C and F

Question 20 – MTP June, 2022

Study the following information carefully and answer the questions given below.

1. P, Q, R, S, T, U and V are sitting on a wall and all of them are facing West.
2. S is on the immediate left of R.
3. T is at an extreme end and has Q as his neighbour.
4. V is between Q and U.
5. S is sitting third from the north end.

Which of the following pairs of people are sitting at the extreme ends?

(a) QV

(b) PR

(c) TP

(d) ST

Direction Sense Test

Question 1

One day, Ram ran away from home. He first ran 10 km to South, then turned right at 45° , and ran for 10 km, then turned right at 45° and ran for 10 km. In which direction is he facing now?

(a) North

(b) East

(c) West

(d) South

Question 2

I started walking down a road in the morning facing the Sun. After walking for sometime I turned to my left. Then I turned to my right. In which direction am I from the starting point?

- (a) North-East (b) North-West (c) South-West (d) South-East

Question 3 – January, 2021

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

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

Question 4 – December, 2020

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 walks 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) 5000 m

(b) 4000 m

(c) 6000 m

(d) 7000 m

Question 5 – ICAI SM

Sun rises behind the tower and sets behind the railway station. In which direction is the tower from railway station?

(a) North

(b) South

(c) East

(d) West

Question 6 – ICAI SM

A car travelling from south covers a distance of 8 kms, then turns right and runs another 9 kms and again turns to the right and was stopped. Which direction does it face now?

(a) South

(b) North

(c) West

(d) East

Question 7 – MTP November, 2020

If East is replaced by South-East, then West will be replaced by which replaced by which of the following directions?

(a) North East

(b) North

(c) East

(d) North West

Question 8 – MTP June, 2021

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) West

(b) East

(c) North

(d) South

Question 9 – June, 2019; MTP June, 2021; MTP December, 2021

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

- (a) South-East (b) South-West (c) North-West (d) North-East

Question 10 – December, 2020; January, 2021

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 is the facing now?

(a) South-West

(b) North-West

(c) West

(d) South

Question 11 – June, 2022

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

Question 12 – ICAI SM

If A stands on his head with his face towards North, in which direction will his left hand point?

(a) North-East

(b) North

(c) East

(d) North-West

Question 13 – July, 2021

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

(a) East

(b) West

(c) North

(d) South

Question 14 – December, 2022

It is 3 o'clock in a watch. If the minute hand points towards the North-East, then the hour hand will point towards the:

- (a) South (b) South-West (c) North-West (d) South-East

Question 15 – June, 2022 (Similar)

A direction pole was situated on the crossing. Due to an accident, the pole turned in such a manner that the pointer, which was showing East, started showing North. One traveller went to the wrong direction thinking it to be West. In what direction was he actually travelling?

(a) North

(b) South

(c) East

(d) West

Question 16

Two ladies and two men are playing cards and are seated at North, East, South and West of a table. No lady is facing East. Persons sitting opposite to each other are not of the same gender. One man is facing South. Which directions are the ladies facing?

- (a) East and West (b) South and East (c) North and East (d) North and West

Question 17 – MTP June, 2023

Ram moves towards South-East a distance of 7 km, then he moves towards West and travels a distance of 14 km. From there he moves towards North–West for a distance of 7 km and finally he moves a distance of 4 km towards east. How far is he now from the starting point?

(a) 3 km

(b) 4 km

(c) 10 km

(d) 11 km

Question 18 – MTP June, 2023

One morning a boy starts walking in a particular direction for 5 Km and then takes a left turn and walks another 5 Km. Thereafter, he again takes left turn and walks another 5 Km and at last he takes right turn and walks 5 Km. Now he sees his shadow in front of him. What direction he did start initially?

(a) South

(b) North

(c) East

(d) West

Question 19 – July, 2021

A and B start moving towards each other from two places 200 m apart. After walking 60 m, B turns left and goes 20 m, then he turns right and goes 40 m. He then turns right again and comes back to the road on which he had started walking. If A and B walk with the same speed, what is the distance between them now?

(a) 80 m

(b) 70 m

(c) 40 m

(d) 60 m

Question 20

There are four towns P, Q, R, and T. Q is to 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) South-East

(b) North

(c) North-East

(d) East

Number Series, Coding-Decoding, Odd Man Out

Question 1 – January, 2021

In a certain code RIPPLE is written as 613382 and LIFE is written as 8192. How will RIFFLE be written in that code?

(a) 618892

(b) 689912

(c) 619982

(d) 629981

Question 2 – January, 2021

In a certain code language, BEAT is written as YVZG, then what will be code for MILD?

- (a) ONRW (b) NOWR (c) ONWR (d) NROW

Question 3 – January, 2021

Find out the odd man out in the sequence 8, 25, 64, 125, 216.

(a) 25

(b) 64

(c) 125

(d) 216

Question 4 – January, 2021

Find the missing term: P3C, R5F, T8I, V12L, ?

(a) Y17O

(b) X17M

(c) X17O

(d) X16O

Question 5 – December, 2020

Find the next term 1, 5, 21, 57, ?

(a) 105

(b) 138

(c) 121

(d) 101

Question 6 – December, 2020

Find the wrong term in G4T, J10R, M20P, P43N, S90L

(a) M20P

(b) P43N

(c) J10R

(d) G4T

Question 7 – December, 2021

The missing term of the series 4, 13, _____, 49, 76 is:

(a) 26

(b) 28

(c) 30

(d) 32

Question 8 – MTP June, 2023

If GOODNESS is coded as HNPCODTR, then how GREATNESS can be written in that code?

- (a) HQZSMFRT (b) HQFZUFRTM (c) HQFZUODTR (d) HQFZUMFRT

Question 9 – MTP June, 2023

In certain code language, if TOUR, is written as 1234, CLEAR is written 5678 and SPARE is written as 90847, Find the code for TEARS?

(a) 17847

(b) 14847

(c) 15247

(d) 17849

Question 10 – MTP June, 2023

Find the missing number in the following series: 2, 5, 10, 17, 26, ?

(a) 49

(b) 47

(c) 37

(d) 36

Question 11 – MTP June, 2023

Find the odd man out: 34, 105, 424, 2125, 12755

(a) 12755

(b) 2125

(c) 424

(d) 34

Question 12 – MTP June, 2023

Find next term of the series 10, 69, 236, 595, ?

(a) 1254

(b) 1020

(c) 1320

(d) 1200

Question 13 – MTP June, 2023

In certain code language, BOARD is coded as CQDVI, what is the code for the word CONSULTING?

- (a) DQQWZRARNQ (b) DQQWZARQWQ (c) DQQWZRAQWQ (d) None

Question 14 – MTP June, 2023

In a certain code language if CAMP is written as 9, then in the same code how will the word TEAM be written?

(a) 14

(b) 19

(c) 27

(d) 33

Question 15 – MTP June, 2023

Which number will come next in the following series: 675, 623, 573, 525?

(a) 491

(b) 479

(c) 423

(d) 456

Question 16 – MTP June, 2023

105, 115.5, 150, 162.5, 203, ?

(a) 217

(b) 217.5

(c) 210.5

(d) None

Question 17 – MTP May, 2019

GO = 32, SHE = 49, then SOME will be equal to:

(a) 56

(b) 58

(c) 62

(d) 64

Question 18 – MTP November, 2019

a_c_ba_ca_cb

(a) *abcc*

(b) *acba*

(c) *bcaa*

(d) *bcba*

Question 19 – MTP December, 2020

Find the alphabet missing series *ac_cab_baca_aaa_aba*

(a) *aabc*

(b) *aacb*

(c) *babb*

(d) *bcbb*

Question 20 – ICAI SM

aab__aaa__bba__

(a) *baa*

(b) *abb*

(c) *bab*

(d) *bba*