**18PDM202L – CRITICAL AND CREATIVE THINKING SKILLS**

**LOGICAL REASONING**

**BLOOD RELATIONS**

1. Sushma is the mother-in-law of Alka, who is the sister-in-law of Pradhap. Raghav is the father of Vishnu, the only brother of Pradhap. How is Sushma related to Pradhap?

a) Wife b) Aunt c) Mother-in-law d) Mother

2. Pointing to a photograph of a boy Suresh said, “He is the son of the only son of my mother”. How is Suresh related to that boy?

a)Brother b)Uncle c)Cousin d)Father

3. If A is the father of B, B is the mother of C and C is the daughter of D, then how is A related to D?

a) Sister-in-law b) Father-in-law

c) Son-in-law d) Brother-in-law

4. If A is the brother of B; B is the sister of C; and C is the father of D, how is D related to A?

a) Brother b) Sister c) Nephew d) Cannot be determined

5. “A \* B” means ‘A is the mother of B’. “A + B” means ‘A is the father of B’. “A - B” means ‘A is the sister of B’ and “A / B” means ‘A is the daughter of B’, then how is M related to P in the following expression “M – N + Q / R \* P”?

a) Mother b) Aunt c) Sister-in-law d) Cousin

6. If A+ B means A is the mother of B; A – B means A is the brother of B; A % B means A is the father of B and A x B means A is the sister of B,Which of the following shows that P is the maternal uncle of Q?

a) Q-N+M x B b) P+S x N-Q c) P-M+N x Q d) Q-S % P

7. Introducing a boy, a girl said “He is the son of only daughter of the father of my maternal uncle”. How is the boy related to the girl?

a) Brother b) Nephew c) Uncle d)Son - in – law

8. Rahim told to Shyam, “Yesterday I defeated the only brother of the daughter of my grandmother”. Whom did Rahim defeat?

a) Father b) Father or Uncle c) Uncle d) Son

9. M is the sister of N, N is the father of P and P is the brother of Q. How is Q related to M?

a) Uncle b) Nephew c) Aunt d) Data inadequate

10. Pointing at Vaishnavi, Rahul said, “The son of her only brother is the brother of my wife”. How is Vaishnavi related to Rahul?

a) Maternal aunt b) Sister of father-in-law

c) Mother-in-law d) Mother’s sister

**DIRECTIONS**

1. Surabhi walks 6 km towards the north, turns to her left and walks 8 km. She then turns to her left and walks 6 km. How far is she from the starting point and in which direction from the starting point?

a) 6 km, North b) 8 km, North c) 6 km, South d) 8 km, West

2. Peter started walking towards the south and after walking some distance, turned to his right, walked some distance, again turned to his left, walking some more and finally turned to his right and continued walking. In which direction is he walking now?

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

3. One morning, Johnson was standing in the garden when Andrew came just in front of him and started talking. Andrew saw that his own shadow fell to his right. In which direction was Johnson facing?

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

4. A person is driving towards the West. What sequence of turns should he take so that he ends up driving towards the South?

a) left, right, right b) right, right, left

c) left, left, left d) right, right, right

5. I was walking in Southeast direction. After a while, I turned 900 to the right and walked ahead. Later, I turned 900 to the right. Inwhich direction am I walking now?

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

6. Village Q is situated to the north of Village P. Village R is situated to the east of Village Q. Village S is to the left of Village P on a map. What is the position of Village S with respect to Village R?

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

7. While trekking in mountainous terrain, Girish damaged his compass with the result that it points towards the “North-East” marking when he faces the geographical North. With this compass in hand, if Girish treks towards south, in which direction is he actually heading?

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

8. Mahesh starts walking towards the east and after walking 30 meters, takes a right turn and walks another 30 meters. Then he takes left turn and walks 30 meters. Again he takes left turn and after walking 15 meters finally turns to his left and walks 60 meters. How far and in which direction is Mahesh from the starting point?

a) 20 m North b) 30 m West c) 30 m South d) 15 m South

9. Rohan is facing towards the north. He turns 45⁰ clockwise and then 225⁰ anticlockwise. Finally he turns 270⁰ clockwise. In which direction is he facing now?

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

10. Arjun started his morning walk at 5 am. After walking 2 km, he turned to his left and covered 1 more km before turning left again. He walked for a further 2 km, then turned to his right, and covered a distance of 1 km before he stopped to admire the rising sun in front of him. He then noticed that the time was 6.30 am. In which direction Arjun was walking, when he started from his home?

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