Read the following information carefully to answer the following questions.
I. 'X + Y' means that 'X is the mother of Y'.
II. 'X − Y' means that 'X is the sister of Y'.
III. 'X × Y' means that 'X is the father of Y'.
IV. 'X ÷ Y' means that 'X is the brother of Y'.

1. If it is given 'B + D × M ÷ N', then how is M related to B?

(a) grand-daughter
(b) son
(c) grand-son
(d) daughter

2. Which of the following represent 'J is the son of F'?

(a) J ÷ R − T × F
(b) J + R − T × F
(c) J ÷ R − N × F
(d) none of these

3. Which of the following represent 'R is the niece of M'?

(a) M ÷ K × T − R
(b) M − J + R − N
(c) R − M × T ÷ W
(d) M + T × K ÷ R

4. If it is given 'B × D − M', then which of the following is true?

(a) B is the brother of M
(b) B is the sister of M
(c) B is the uncle of M
(d) B is the father of M Direction (Q. 117 – Q. 121): Read the given information carefully and answer the following questions. Vidya, Umesh and Tanu are sitting around a circular table. Arun, Bina and Chetan are sitting around the same table but two of them are not facing centre (they are facing the direction opposite to centre). Vidya is second to the left of Chetan. Umesh is second to the right of Arun. Bina is third to the left of Tanu. Chetan is second to the right of Tanu. Arun and Chetan are not sitting together.

5. Some apples are fruits. All fruits are ducks. Some ducks are books. Which of the following statements necessary follows ?

(a) Some books are apples
(b) At least some books are ducks
(c) No ducks are apples
(d) All ducks are fruits

6. Some White are Blue. Some Blue are Green. Some Green are Red. Some Red are

Yellow. Some Red are Blue. Some Red are White. Some Yellow are White. Some Yellow are Blue. All Green are White. All Blue are Red. If the above statements are true, which of the following follow(s) ? I. No Yellow is Green. II. Of the Red which are White, some are also Yellow. III. Of the Red that are Green, some are also Blue. IV. Some White are Green. Choose the most appropriate answer.

(a) Only II and III follow
(b) Only III and IV follow
(c) Only I and IV follow
(d) All follow

7. Only Tigers are Fish. Only Rabbits are Fish. Only Rabbits are Tigers. Some Deer are Tigers. If the above statements are true, which of the following follow(s) ? I. If A is a Rabbit, A is also a Deer. II. If B is a Deer, B is also a Rabbit. III. Some Deer are Fish. IV. Some Deer are Rabbits. Choose the most appropriate answer.

(a) Only IV
(b) Only II
(c) Only I and II
(d) None follows

8. Most persons are individuals. Some companies are State. Most State are individuals. If the above statements are true, which of the following follow(s) ? I. Some persons are State. II. Some State are companies. III. Some companies are persons. IV. Some companies are individuals. Choose the most appropriate answer.

(a) Only II and III
(b) Only I and II
(c) Only II
(d) None follows

9. Statement: “We are short on time so we better send these documents via speed post.” Assumption made:

(a) Sending documents via speed post will take less time than some other means of sending documents.
(b) Documents must always be sent via speed post.
(c) Sending documents via speed post will take less time than all other means of communication.
(d) None of the above

10. “The best telecom services in the world are to be found in South Korea and Japan, and neither country allocates spectrum on the basis of auctions. Spectrum is assigned on the basis of discretion, the focus being on ensuring the availability of cutting-edge telecom services and the revenue the super-enabled industry would generate, rather than on generating revenue from spectrum auctions. Neither the Japanese nor the Koreans are squeamish about eating almost anything that creeps,

crawls, swims, flies or runs. But when it comes to geese that lay golden eggs, they apparently lay off." Which of the following assumptions is made in the above passage ?

(a) Geese are not consumed as food in Japanese and South Korean cultures

(b) Auctioning telecom spectrum would generate a great deal of revenue for the Japanese and South Korean Governments

(c) Governments that wish to provide good telecom service should not auction telecom spectrum

(d) Governments that wish to provide good telecom service should auction telecom spectrum

11. Cocoa is rich in plant chemicals called flavanols that may help to protect the heart. Dark chocolate contains up to 2-3 times more flavanol-rich cocoa solids than milk chocolate. Flavanols have been shown to support the production of Nitric Oxide (NO) in the endolethium (the inner cell lining of blood vessels) that helps to relax the blood vessels and improve blood flow, thereby lowering blood pressure. Flavanols in chocolate can increase insulin sensitivity in short term studies; in the long run this could reduce risk of diabetes. Which of the following, if true, strengthens the explanation above ?

(a) Communities with high levels of dietary intake of dark chocolate exhibit low rates of death from hypertension (high blood pressure).

(b) Individuals with low levels of nitric oxide in the endolethium exhibited relaxed blood vessels and robust blood flow.

(c) There is no peer-reviewed study which proves the link between intake of cocoa flavanols and reduction in risk of diabetes.

(d) None of the above

12. Congestion pricing approach reduces peak-hour car trips in several cities. Which assumption supports using it in a new city?

(a) Drivers will respond to price signals by shifting time or mode of travel.

(b) Public transport would be able to fulfil the demand.

(c) Drivers dislike road taxes and would therefore stop using cars to avoid them.

(d) Fuel prices will fall due to lower consumption.

Answer Key

1. C	2. D	3. B	4. D	5. B
6. B	7. A	8. C	9. A	10. B
11. A	12. A			