



**MCQs:**

**1. Which of the following statement/s is/are true?**

1. When matter falls towards these black holes, it collects into a vast flattened structure called the accretion disk.

2. A cloud of extremely hot particles near the black hole, called the corona, produces higher-energy X-rays.

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

Ans: c

**Explanation:** Big galaxies often host supermassive black holes at their centre. The material slowly spirals inwards, heats up and emits visible, UV and lower-energy X-ray light. A cloud of extremely hot particles near the black hole, called the corona, produces higher-energy X-rays.

**2. InSight Mars Lander has been launched by?**

(a) NASA

(b) ISRO

(c) JAXA

(d) ESA

Ans: a

**Explanation:** InSight was designed by NASA to give Mars its first thorough checkup since it formed 4.5 billion years ago.

**3 The Powai Lake is located at?**

(a) Maharashtra

(b) Bihar



(c) Odisha

(d) Kerala

Ans: a

**Explanation:**

- Recognised as a wetland, the Powai Lake is located in the north-eastern suburbs of Mumbai, Maharashtra.
- The Powai Lake is an artificial man-made lake located to the north of Mumbai and southwest of Thane.

**4. Which of the following statement/s are true?**

**1. Pantanal Wetland of the South America is the world's largest wetland.**

**2. This is a salt water wetland.**

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

Ans: a

- This is a freshwater wetland spans for more than 179,000 km<sup>2</sup> in Brazil, Paraguay and Bolivia.
- It consists of highest conc entrations of flora and fauna in South America.

**5. Thalassemia is associated with?**

(a) RBC

(b) WBC

(c) Platelets

(d) Blood Plasma

Ans: a



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- Thalassemia is an inherited blood disorder caused when the body doesn't make enough of the protein hemoglobin, a part of red blood cells (RBCs).

No 18, B.B.M.P Building  
Kanakapura road,  
Tata Silk Farm, Jayanagar,  
Bengaluru, Karnataka-560028

+91 89710 43904

rvta@rvei.edu.in

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