



# SHIKSHA CLASSES

Subject : Science -I

## Question Paper

Total Marks : 20

Class : X

### 10. Space mission

Time : 1 Hour

**Q. 1 A) Choose the correct alternative :**

2

**1) The first person to go into the space in a spacecraft was.**

- a) Anatoly Zhuravlev
- b) Yuri Gagarin
- c) Slanislow hyubava
- d) Avangard Era.

**2) A group of students from COEP made a small satellite namely.**

- a) Satyam
- b) Mangalam
- c) Ratnam
- d) Swayam

**B) Solve the following questions. (Any One)**

1

**1) Write true or false.**

The escape velocity on moon is less than that on earth.

2) Name the first artificial satellite.

**3) Complete the analogy.**

INSAT : Communication satellite : : \_\_\_\_\_ : Earth observational satellite

**Q 2 : A) Give scientific reason. (Any One)**

2

- 1) Geosynchronous satellite appears to be stationary with respect to earth.
- 2) It is very essential to manage the space debris.

**B) Solve the following questions. (Any Two)**

4

- 1) What is the need of space mission?
- 2) Why it is beneficial to use satellite launch vehicles made of more than one stage?
- 3) Write the difference between HEO and MEO.
- 4) If mass of a planet is eight times the mass of the earth and its radius is twice the radius of the earth. What will be the escape velocity for that planet?

**Q. 3 : Solve the following question. (Any Two)**

6

- 1) Write a short note on India and space technology.
- 2) Explain Mars Missions in brief.
- 3) Why are geostationary satellites not useful for the studies of polar regions?
- 4) Derive the equation of critical velocity of a satellite. What do you conclude from the equation?

**Q. 4 : Solve the following question. (Any One)**

5

- 1) What is meant by satellite launch vehicles? Explain a satellite launch vehicle developed by ISRO with the help of a schematic diagram.
- 2) Explain the different types of satellites and their functions along with the names of Indian satellite series and their launch vehicles.

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