VIVEK TUTORIALS

Practice Test

Std: SSC (E.M)	**Subject: Science & Technology I**	**Time: 60Min**
Date : 27/Dec/2019	**1 and 10**	**Max Marks: 30**

Q.1 Choose the correct alternative: **2**

1) ---------- and Sunita Williams of Indian original participated in space explorations through missions organized by NASA.
(a) Yuri Gagarin (b) Neil Armstrong
(c) Rakesh Sharma (d) Kalpana Chawla

2) _____ was the first scientist to construct a reflecting telescope.
(d) Johannes Kepler (b) Henry Cavendish
(c) Newton (d) Einstein

Q.2 Find the odd one out: **2**

1) NASA, ISRO, IRS, PRL

2) Mass, potential energy, radius, weight

Q.3 Write the correlated terms: **2**

1) INSAT : weather study : : IRS : _____

2) G: 6.67 x 10^{-11} Nm^2/kg^2::g: ---------

Q.4 State 'True' or 'False', if 'False' correct it: **2**

1) High earth Orbit are used in applications like meteorology and for carrying signals for telephone, television, radio etc.

2) The level of water in the sea changes because of the gravitational force exerted by the moon.

Q.5 Name the following: **2**

1) First Satellite launched by India.

2) Amount of matter present in an object.

Q.6 Answer the following in one line: **2**

1) Full form of IRS

2) For freely falling object we can write the Newton's second equation of motion as_____.

Q.7 Give scientific reason of the following: **4**

1) Why are geostationary satellites not useful for studies of polar regions?*

2) Any object on earth falls vertically downward and not at an angle to the vertical; nor fly off in a horizontal direction.

Q.8 Answer the following: **4**

1) What are space expeditions? Explain their need and importance in your words.

2) What are Newton's laws of motion?*

Q.9 Solve the following: **4**

1) Complete the table.

Type of satellite	Function of satellite
i) _____	i) Collect information for Security aspects
ii) Broadcast Satellite	ii) _____

2) An object thrown vertically upwards reaches a height of 500 m. What was its initial velocity? How long will the object take to come back to the earth? Assume g = 10 m/s².*

Q.10 Solve the following: **6**

1) Suppose the orbit of a satellite is exactly 35780 km above the earth's surface. Determine the tangential velocity of the satellite.*

2) Calculate the value of 'g' on the surface of the earth.

-------- All the Best --------