

DYA SHREE ACADE SR. SEC. SCHOOL

An English Medium Co.Ed. School | Science & Commerce



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Subject-**Topic-Discovery Of Universe** S. S. T Class-6 **Learn and Write**

1.				
	(a) When was India's first artificial satellite launched? (iv) 1947 (iv) 1985			
	(i) 1960 (ii) 1975 (iii) 1975			
	(b) In Rajasthan the ancient Jantar Mantar Observatory is located at (iv) Jodhpur (iv) Jodhpur			
	(i) Odalpur (ii) Kota			
2.	Fill in the blanks.			
	(a) Aryabhata was ancient India's great Annual Company (b) The credit of giving momentum to Indian space programme goes to Annual Company (c) kms/sec			
	(b) The credit of giving momentum to Indian space programme goes to			
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
3.	Write the names of the main astronomers of India. Abeth Browns, Kafford Chaucala			
4.	In ancient times from where did the space research begin in the world?			
5.	When and why were the pyramids of Egypt made?			
-	Discuss the contribution of Aryabhata to astronomical researches.			
6. ** 8.	What is a telescope? Write about its advantages.			
8	Which mathematician and geographer of Greece calculated the actual circumference of the earth			
٦	for the first time?			
9.	Mention about the main astronauts of the world along with their work.			
	Additional Questions For Practice			
Α.	Multiple Chaice Questions (MCOs) Tick (() the correct entions			
7.	Multiple Choice Questions (MCQs) – Tick (/) the correct options. 1. The table of stars was developed in			
	(a) Saudi Arabia (b) China (c) India			
	2wrote Siddhanta Shiromani.			
	(a) Aryabhata (b) Bhaskaracharya II			
	(c) Sushrut			
	3. Artificial are bodies sent by scientists into space.			
	(a) planets (b) satellites (c) stars			
	* was the first man to place his foot on the moon.			
	(a) Rakesh Sharma (b) Yuri Gagarin			
	(c) Neil Armstrong			
5. The Atomic Energy Department of India set up ISRO under the leadership of				
	(a) Homi Jehangir Bhabha (b) Vikram Sarabhai			
	(c) Kalpana Chawla			

B.	Fi	Fill in the blanks.	
	1.	1. Cof werness proved that the Sun was the centre of the solar system.	
	2.	2. Aryabhata calculated the circumference of the Earth to approximately	4 925 mil
	100	The biggest telescope in India is set up in Manifester	, n., in 160 to
	4.	4. The Santa Line is the highest Yantra invented by Sawai Jai Singh.	
	5.	5. Statistical satellite to be launched in space by Ruse	ia .
	6.		na.
C.	Mai	Match the following.	
	1	1 Mars-craft (a) circumference of the Earth	
	2.		
	3.		
	4.	4. Aryabha ta (d) Greek philosopher	
	5.	5. Rakesh Sharma (e) lunar eclipse	
).	Ver	Very Short Answer Questions	
	1.	 Why are telescopes being connected to computers? 	
	2.	2. What is MAST utilised for?	
	3.	3. Which telescope has been established to study the mysteries of space?	-26
	4.	4. Define artificial satellites. / 27 5. Who was Kalpana Chawl	a? [-28
	6.	4. Define artificial satellites. 5. Who was Kalpana Chawl 6. What was special about Sputnik II?	
	Sho	Short Answer Questions	
	NOW Y	Write the two things included in Siddhanta Shiromani.	A
	2.	11 0 17 101 1 1/1 1/1	1-16 1-26
	3.	What is the aim of ISRO? 4. List four functions perform	med by satellite
	Long	ong Answer Questions	
	1	Why do artificial satellites never come back to the Earth despite gravita	tional force?
	0	Why are artificial satellites important for us?	
1	3.		
		1 Of Ohitan Mission of India	
	4.	. Write a short note on the Mars Orbiter Mission of India.	

3. Discovery Of Universe

Exercise

- 1. Choose the correct options.
 - (a) (ii) 1975
- (b) (iii) Jaipur
- 2. (a) astronomer
- (b) Vikram Sarabhai
- (c) 11.2
- (d) Aryabhata
- 3. Aryabhata, Varahmihira and Bhaskaracharya II
- 4. Russia
- The Pyramids of Egypt were made in 2500 BCE. The great Pyramid of Giza, aligned straight, represents the position of the Pole Star.
- Aryabhata had calculated the circumference of the Earth to approximately 24835 miles. He also helped people to know the effect of the shadow of the Earth on the moon causes the lunar eclipse.
- 7. The telescope is an instrument that helps us observe and watch distant things nearer and bigger. The first telescope was invented by Hans Lippearshey of Holland.
- 8. Eratosthenes
- 9. Yuri Gagarin-first man sent into space
 Neil Armstrong-first man to place his foot on the moon
 Rakesh Sharma-first Indian to travel to space
 Kalpana Chawla-first Indian woman to travel to space

Additional Questions For Practice

A. Multiple Choice Questions (MCQs) – Tick (✓) the correct options.

1. (b) China

2. (b) Bhaskaracharya II

3. (b) satellites

- 4. (c) Neil Armstrong
- 5. (a) Homi Jehangir Bhabha

B. Fill in the blanks.

- 1. Copernicus
- 2. 24835

5.

3. Fateh Sagar Lake, Udaipur

- 4. Samrat Yantra
- Sputnik-1 6. atmosphere

C. Match the following.

- 1. (c) November 2013
- 2. (d) Greek philosopher
- 3. (a) circumference of the Earth
- 4. (e) lunar eclipse
- 5. (b) Soyuz T-II

D. Very Short Answer Questions

1. Telescopes are being connected to computers for easy and clear study of celestial bodies.

2. MAST is utilised for studies related to Sun.

The name of the telescope is Hubble.

 Artificial satellites are bodies sent by scientists into space. These bodies revolve around the Earth and help in research.

- Kalpana Chawla was the first Indian woman and the second Indian who travelled into space. She was a research scientist and an astronaut.
- The first living being, a female dog named Laika was sent into space in Sputnik II.

E. Short Answer Questions

- 1. Two things included in Sidhanta Shiromani are:
 - The Earth is round.
 It attracts everything towards it.
- 2. Sawai Jai Singh also invented three instruments:
 - Samrat Yantra
 Iai Prakash Yantra
 Ram Yantra
- 3. It aims to harness space technology for national development while pursuing space science research and planetary exploration.
- 4. Satellites are used for predicting seasons, spying and other Earth information. They predict natural disasters that is useful in the management of agriculture, forest and water resource planning. Spectrums of telephone, television and radio are transmitted via these satellites.

F. Long Answer Questions

- Any object that goes upwards away from the Earth, falls back due
 to the Earth's gravitational force. When a satellite is launched
 through a rocket it does not come back to the Earth. This happens
 because the rocket is launched with a force greater than the Earth's
 gravitational force.
- 2. These artificial satellites are very important for us. They predict natural disasters, that is useful in the management of agriculture forest and water resource planning. Spectrums of telephone, television and radio are transmitted via these satellites.
- India took the initiative and in 1984, Rakesh Sharma (From Indian Air Force) travelled into space. He travelled in Soyuz T-11 along with two Russian astronauts.

Kalpana Chawla was a research scientist and a famous astronaut. She was born in the Karnal district of Haryana in the year 1961. Kalpana Chawla was the first Indian woman and the second Indian who travelled into space. She along with six other

associates, met with a tragic end in 2003, as the spacecraft Columbia crashed while returning from space. Also, Sunita Williams an American citizen of Indian origin has set a record of spending maximum time in space.

For collecting information on Mars, India launched a spacecraft named Mangalyaan also called Mars-craft from Satish Dhawan Space Centre situated at Sriharikota of Andhra Pradesh in November 2013. It travelled for almost 11 months and in September 2014, entered Mars' orbit. India has become the first country to establish a satellite in Mars' orbit in its first attempt. Like-wise, a spacecraft named the Moon-craft (Chandrayaan-1) was launched to the moon in October 2008 to study the moon.