



NCERT

Exercises (Questions-Solutions)

An Indian-American Woman in Space: Kalpana Chawla

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1. Answer the following questions:

(i) Where was Kalpana Chawla born? Why is she called an Indian American?

Ans. Kalpana Chawla was born in Kamal, Haryana. She is called an Indian- American because she had adopted U.S. citizenship.

(ii) When and why did she go to the US? Who did she marry?

Ans. After taking a B.Sc. (Bachelor of Science) degree in aeronautical engineering she went to the US for getting a master's degree there. She married to a flight instructor Jean-Pierre Harrison.

(iii) How did she become an astronaut? What gave her the idea that she could be an astronaut?

Ans. Kalpana Chawla first qualified as a pilot. It encouraged her to apply for NASA's space shuttle program. She was first hired as a research scientist at NASA. Finally, in 1994 she was selected for training as an astronaut by NASA.

(iv) What abilities must an astronaut have, according to the journalist?

Ans. According to the journalist, an astronaut must have encyclopedic knowledge.

(v) Describe Kalpana Chawla's first mission in space.

Ans. Kalpana Chawla's first space mission on 'Columbia' in 1997 was 15 days, 16 hours and 34 minutes long. With her were two other astronauts, one Japanese and the other Ukrainian. They went around the earth 252 times, travelling 10.45 million kilometres. They performed various experiments in space like pollinating plants, etc. All this cost 56 million dollars.

(vi) What does Kalpana Chawla say about pursuing a dream? Do you agree with her that success is possible?

Ans. Kalpana Chawla says that if you have dream, you can make it come true. She says that the path from dreams to success exists. This path can be found when you have the courage and determination to walk on it. Yes, I agree with her that success is possible.

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1. Read the newspaper report to find the following facts about the Columbia's ill-fated voyage.

1. Date and place of lift off :
2. Number of astronauts on board :
3. Number of days it stayed in space :
4. Number of experiments done by scientists :
5. Date of return journey :
6. Height at which it lost contact :

- Ans.**
- | | |
|----------------------|-----------------------|
| 1. January 16, 2003. | 2. Seven astronauts. |
| 3. Sixteen days. | 4. Eighty experiments |
| 5. February 1, 2003 | 6. 200,000 feet. |

2. Match the following.

1.	unprecedented space tragedy	• something that causes feelings of respect and wonder
2.	certified flight instructor	• having knowledge of a wide variety of subjects
3.	space mission	• nowadays, in these times
4.	super specialisation	• a set of jobs to be done in space by a group
5.	encyclopaedic knowledge	• a person with the correct qualification to teach people to fly planes
6.	awe-inspiring	• a sad accident of a kind that has never happened before in space
7.	in this age	• great expertise in a limited field or a particular subject

Ans.

1.	unprecedented space tragedy	• a sad accident of a kind that has never happened before in space.
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1. Use these phrases in sentences of your own, after finding out their meanings.

- | | | |
|------------------|---------------|------------------|
| 1. broke apart | 4. lifted off | 7. cheered along |
| 2. streaked over | 5. blast off | 8. on board |
| 3. spread across | 6. went on | 9. cany on |

- Ans.**
- broke apart - got divided into two or more pieces unexpectedly when I removed the wrapper, the chocolate broke apart.
 - streaked over - moved very fast above - He tried to look out as his plane streaked over Delhi.
 - spread across - covered a large area - Water began, to spread across the floor.
 - lifted off - left the ground and rose into air - I felt very excited when my plane lifted off from the Delhi airport.
 - blast off - (of a spacecraft) departure from land and rising into air-The blast off for the shuttle was scheduled in ten minutes.
 - went on - continued an activity - He did not pay attention and went on talking.
 - cheered along - encouraged and supported - People cheered along at the harbour as the Titanic started moving.
 - on board - aboard, on a ship or in an aircraft or train - I got on board the train just in time or I would be in trouble just.
 - cany on - to keep going on - I carried on my journey without stopping once.

2. We add 'un-' to make opposites.

For example, true - untrue.

Add 'un-' to the words below to make their opposites. Then look up the meanings of the words you have formed in the dictionary.

- | | |
|---------------------|----------------------|
| 1. identified | 6. educated |
| 2. controlled | 7. interesting |
| 3. attended | 8. qualified |
| 4. successful | 9. trained |
| 5. important | 10. answerable |

- Ans.**
1. unidentified - not recognized or known.
 2. uncontrolled - that has not or can not be stopped.
 3. unattended - without being watched or cared for.
 4. unsuccessful - not getting success.
 5. unimportant - that does not hold any significance.
 6. uneducated - illiterate.
 7. uninteresting - that which is boring.
 8. unqualified - not having the right knowledge.
 9. untrained - not taught.
 10. unanswerable - not having a valid reply.

- 3.** In her message to students of her college, Kalpana Chawla said, "May you have the vision to find the path from dreams to success... Wishing you a great journey."
Form pairs. Use "May you ..." and "I wish you/Wishing you" to wish your partner good luck and success in
(i) a sports event,
(iii) a quiz or a competition, and
(ii) a test or examination.

Be sure to thank your partner when she/he wishes you in turn. You may also look up a telephone directory, or go to a post office, and get a list in English and Hindi of standard phrases that can be sent in greeting telegrams anywhere in India. Discuss which of these you might use, and when. Compare the English and Hindi phrases for expressing good wishes. Do you know such phrases in any other language?

- Ans.** Conversation between two friends Peter and Tom is given below:

Peter : Hello Tom, I heard that you were going to take part in some quiz competition.
Tom : Oh yes, how did you come to know of it? I was going to tell you about it today.
Peter : Your brother told me yesterday. What's the quiz about?
Tom : It is a science quiz. I am preparing for it very hard. You know, it is one of the toughest quizzes nowadays.
Peter : Well, I hope you do well in the quiz. You are very brilliant and can do it.
Tom : I'm afraid biology is not my interest and I don't feel I will be able to do well in it.
Peter : Oh, how can you say so? Just have full confidence in yourself and have faith in God. Just aim at your goal, that is victory, good luck.
Tom : Thanks, Peter, for your advice and greeting. Bye.
Peter : Bye.

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- 1.** Do you have a 'dream', or something you very much wish to do? Write a paragraph saying what you want or wish to do. Then say (in another paragraph) how you think you can make your dream come true.

- Ans.** (A sample is given below)

Everyone has his or her own dreams and one wishes to make those dreams come true. Making dreams come true is a difficult job as it requires courage, determination, far-sightedness, patience, hard work and perseverance. My dream in life is to become an astronaut. My inspiration for this comes from Late Kalpana Chawla, who converted her dreams into sparkling success with her great qualities. I have great interest in

astronomy and space science. I wish to collect more and more knowledge about space. I hope to join National Aeronautics and Space Agency (NASA) one day and make a name of myself and my country in the world. But prior to this, it is my utmost duty to become a complete and true human being, which is more important in life.

2. Given below are some words that are spelt differently in British and American English. Fill in the blanks accordingly.

British	American
1. colour
2.	labor
3.	traveler
4. counsellor
5. centre
6.	theater
7.	organize
8. realise
9.	defense
10. offence

Ans. British	American
1. colour	color
2. labour	labor
3. traveller	traveler
4. counsellor	counselor
5. centre	center
6. theatre	theater
7. organise	organize
8. realise	realize
9. defence	defense
10. offence	offense