

VALUE BASED QUESTIONS ON ELECTROSTATICS

1. One day Ram was feeling fever. His mother took him to the hospital. There the nurse advised him to remove the shoes and to come in. a) what is the reason behind this advice? B) What is the property on which the thermometer works?
2. Rahul and his friend went to park. Suddenly a lightning took place with heavy rain. They all went and took shelter under tree. Rahul advised his friend to get in to the bus and explained the importance of electrostatic shielding. A) What values were exhibited by Rahul? B) What is meant by electrostatic shielding?
3. In one of the street show one person was showing a magic. There paper snake is acting like real one. when he touch with a stick. As soon as he touches with the stick to its head it is also raising its head along with the stick. A student of class XII named Rohan watched this and come to spot to explain the people about the reality of the magic. A) What must have told by the Rohan regarding the scientific explanation? B) Mention the scientific values shown by Rohan?
4. Physics teacher was explaining the topic torque to the class XI students. He took a wooden meter scale and kept over a lens to give support at its mid-point. He took another plastic scale rubbed with silk cloth and brought close to the wooden scale and gently taken away. Then it started to rotated along with the plastic scale. One of the students of class XI wanted to know the reality of the activity and approached to the student of class XII. He explained the scientific principle behind it. A) Explain the principle behind this? B) What are the scientific values shown by the student of class XII?
5. We are all worried about air pollution. There are many ways to fight with it. As a good citizen of India it the moral duty of every one to keep air unpolluted for good health for good health. Can you suggest a general proverb related to precautions and remedies which can be helpful in this case. As a science student give two ways to fight with it, out of this one method should be based on principle of electrostatics.
6. A holy man boasts of having supernatural power. He visits the house of Sham in his absence and asks his young son to bring a bottle of oil. The holy man took a box and droppled of oil in the box and asked the boy to have a peep in the box. The boy exclaimed the drop was hanging in the space of its own. The man then asked the boy to give him some cash so that he can use his power for his benefit. Before the boy could obey him Shan returned home and made the man run away empty handed. Why did Sham do so and was his action morally sufficient?

VALUE BASED QUESTIONS ON COMMUNICATIONS SYSTEM

7. One day Ravi has observed that the radio in his uncle' house was tuned. But two programmes were coming at a time. Then he opened the radio set and he adjusted the

coil properly again it was closed by Rahul. Mention a) scientific value exhibited by Ravi.
B) What is the property which he changed and how was it corrected?

8. Television is theater at home. A TV is a basically a receiver which can be tuned to transmitter of our choice. Younger generation says that T V has merits for the society but elders do not agree to it. Assuming yourself to be young and then old list two reasons favouring each concept.
9. Tina is a late riser. His grandfather observes that she remains awake late night listening to radio on mobile is also a receiver. Where you have to listen and not to observe anything. Thus you're capable of doing other things simultaneously. Tina does not ignore her works. But her grandfather blames the FM radio which has made her late riser. What is FM? Why is her grandfather worried?
10. Rangayya lives in a house which is located just beside of a hill in outskirts of the town. He is very interested to listen the music especially of Ghantasala. Recently he purchased a radio set but unluckily he is not able to listen the music. Then a student named Naeem who resides in the neighborhood adjusted by putting one long wire over a wall could succeed the music to listen.
 - a) Explain what may be the reason for not being received the signal initially? B) What is the scientific attitude shown by the student in solving the above problem?
11. One during school assembly so called S U P W teacher who looks the mic arrangement was absent. Principal felt inconvenient without mic to run assembly program. Then a boy of class XII came up on the assembly and he set by rotating the knob of the amplifier. Then it started to function properly and loudly. A) Mention one problem that might have caused to the amplifier
B) Write the values of the student shown in the above situation?