

Examrace

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Sample KVPY Interview Questions (Part 7 of 9)

- Name any two communicable diseases.
- Define the unit of any quantity.
- Name the sources which are responsible of spread of nitrogen based pollutants in the air.
- Name and three green houses gases, except carbon di oxide.
- How images are formed in our eye?
- State the principle of the oscillations of the simple pendulum which help them move at the same rate.
- There are 5 sets of words (1, 1, 1, 1, 1) (3, 3, 3, 3, 3) (5, 5, 5, 5, 5) (7, 7, 7, 7, 7) (9, 9, 9, 9, 9). Select any five numbers such that sum of those 5 numbers is 22. How many such combinations are possible? State the logic behind the answer.
- Differentiate between sovereign and socialist. What do you mean by republic?
- What is paper made up of?
- The pace of internet connection has increased a lot as compared to the internet speed 10 years before. How this could be done? What are optical fibres?
- State the cause of the swine flu.
- Who is responsible for the concept of direction? Earth/Sun/Moon? How is it responsible? What will happen if the earth stops rotating?
- Define friction force. What happens when the friction force is varied by applying the external force? What is the direction of the frictional force? Show the direction of frictional force in three different cases.
- Is dry air more humid than moist air? Explain.
- The droplets of water are easily visible when you breathe out on a winter night. However the same is not the case in summer. How is it so? Relate it with dew point and condensation.
- A table fan is running and air is flowing because of that with some speed. The increased air flow comes to a halt after certain distance. Assume that the rate of decrease of flow of air is constant. State a method by which the speed of air can be known (For example: You can spray perfume near the fan and it can be smelt from a distance. Measure the time. Repeat the experiment several times to confirm the speed of air.).

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- A person is sitting in a room with an oxygen cylinder. Now a vacuum is created in the room. What will be its effect on the person?
- A 40 watt tubelight is replaced by a 20W CFL. This bulb operates for 14hrs a day and the cost of electricity is Rs. 5/unit. How much money would be saved in a month (1 month = 30 days)?
- Does wall of the room absorbs or reflects light?
- Why do we feel hot as compared to other days on a cloudy day (few hrs before the rainfall)?
- Is air a bad conductor of heat? How?
- What do you mean by vaccines? Who invented the vaccine for rabies?
- What is spontaneous combustion? Give two examples of the process, except for sodium. Describe any application of this concept to understand the observed phenomena.
- How does the fire extinguisher works?

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