

Answer on Question #45981– Physics – Electromagnetism

Question: when glass is rubbed with silk

- a) glass is positively charged while silk is negatively charged;
- b) glass is negatively charged while silk is positively charged;
- c) glass is positively charged while silk is neutral;
- d) glass is negatively charged while silk is neutral.

Solution: rubbing the glass rod with the silk makes it lose electrons (which are negatively charged), thus the rod becomes positively charged. The silk tissue picks up extra electrons, so it becomes negatively charged. Therefore the answer is “glass is positively charged while silk is negatively charged”.

Answer:

- a) glass is positively charged while silk is negatively charged.