

TEST No. 16

TOPIC: lightning, cloudbursts, sudden stratospheric warming

SUBJECT: PHYSICAL GEOGRAPHY

Explanation:

Question 1

Answer: A

Explanation: SECOND statement is wrong. top layer of the cloud gets positively charged, while the middle layer is negatively charged during lightning.

Question 2

Answer: C

Explanation: BOTH statements are correct.

Question 3

Answer: A

Explanation: The most lightning activity on Earth is seen on the shore of Lake Maracaibo in Venezuela. At the place where the Catatumbo river falls into Lake Maracaibo, an average 260 storm days occur every year, and October sees 28 lightning flashes every minute - a phenomenon referred to as the Beacon of Maracaibo or the Everlasting Storm.

Question 4

Answer: C

Explanation: BOTH statements are correct.

Question 5

Answer: A

Explanation: Cloudbursts have a very specific definition: if rainfall of about 10 cm or above per hour is recorded over a place that is roughly 10 km x 10 km in area, it is classified as a cloudburst event. And by this definition, 5 cm of rainfall in half an hour would also be classified as a cloudburst.

Question 6

Answer: B

Explanation: collision of air masses has nothing to do with cloud burst. Cloudbursts happen when saturated clouds are unable to produce rain because of the upward movement of very warm current of air. Raindrops, instead of dropping down, are carried upwards by the air current. New drops are formed and existing raindrops gain in size. After a point, the raindrops become too heavy for the cloud to hold on to, and they drop down together in a quick flash.
cloudbursts more common in summer.

Question 7

Answer: B

Explanation: ozone is not responsible for sudden stratospheric warming (SSM). In some years, the winds in the polar vortex temporarily weaken, or even reverse to flow from east to west. The cold air then descends very rapidly in the polar vortex and this causes the temperature in the stratosphere to rise very rapidly, as much as 50°C over only a few days; hence the term sudden stratospheric warming.

Question 8

Answer: A

Explanation: polar vortex temporarily become WEAKEN during sudden stratospheric warming (SSM).