

Qno 3

(a)

How Black Hole is formed from stars?

Answer:-

How Black Hole form

Primordial black holes are thought to have formed in the early universe, soon after the big bang.

Stellar black holes form when the center of massive stars collapses in upon itself. The collapse also causes a supernova, or exploding star, that blasts part of star into space.

Scientists think supermassive black holes formed at the same time as the galaxy they are in. The size of the supermassive black hole is related to the size and mass of galaxy it is in.

(b)

Pakistan is vulnerable to Biparjaj Cyclone nowadays. How cyclones are formed?

Answer:

~~Formation of Cyclones:~~

Defination:

A system of winds that are rotating inwards to an area of low barometric pressure, such that in the Northern Hemisphere it is anticlockwise and in the Southern Hemisphere it is clockwise circulation is called cyclone

Formation:

The formation of cyclones takes place in low-pressure areas. The vulnerability of place where cyclones strikes depend on the topography, intensity and frequency of the cyclone.

⇒ A cyclone is formed when the warm, moist air rises upward over the ocean. As this air moves up there is formation of a low-pressure area below.

⇒ Now the low-pressure area is filled with the high pressure air from the surroundings. Again, the next batch cool air gets warm and moist over the ocean moving upward.

(C)

Discuss Common Causes of floods?

Answer:

There are many different causes of flooding, and here are the prominent ones.

- 1 Heavy Rainfall
- 2 Overflowing Rivers
- 3 Collapsed Dams
- 4 Snowmelt
- 5 Climate change

1) Heavy Rainfall:

Heavy rainfall can occur due to various weather conditions. A great example is tropical cyclones which can transform into hurricanes and produce large numbers of rain that can cause floods.

2) Overflowing Rivers:

Areas near rivers have higher flood risks during an overflowing. If you live in such a place you need to protect your property against rivers.

3) Collapsed Dams

Dams are designed to hold water upstream. If the dams begin to collapse, they will discharge more water downstream, resulting in flooding.

4) Snowmelt:

Much of the springtime streamflow or runoff in rivers is accountable for melting snow or ice in colder climates.

5) Climate Change:

Uncontrolled human activities can contribute to climate changes, which are responsible for flooding in most regions.