

IASbaba's Daily Quiz

December 7, 2016

Q.1) Consider the following statements about National Institutional Ranking Framework (NIRF)

1. It is a methodology adopted by the Ministry of Human Resource Development (MHRD), to rank all institutions of higher education
2. There are separate rankings for different types of institutions depending on their areas of operation.

Select the incorrect statements

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.1) Solution (d)

National Institutional Ranking Framework (NIRF) is a methodology adopted by the Ministry of Human Resource Development (MHRD) in order to rank all institutions of higher education in India. The Framework was approved by the MHRD and launched by Minister of Human Resource Development on 29 September 2015.

NIRF ranks the institutions broadly on five clusters of parameters viz. (1) Teaching, Learning and Resources (2) Research and Professional Practices (3) Graduation Outcomes (4) Outreach and Inclusivity (5) Perception. These clusters have been assigned certain weightage and weightage is a function of type of institution.

Ranking methods have been worked out for 6 categories of institutions viz. Engineering, Management, Pharmacy, Architecture, Universities and Colleges There are separate rankings for different types of institutions depending on their areas of operation.

In News – <http://www.thehindu.com/todays-paper/tp-opinion/Comparing-apples-and-oranges/article16765963.ece>

Q.2) Consider the following with regard to meteor and meteorite?

1. When a small rocky or metallic body from outer space falls on earth, it is known as meteor
2. Generally meteorites are larger than meteors
3. Both meteor and meteorite are fragments from comets or asteroids

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Choose the appropriate code

- a) 2 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) 1, 2 and 3

Q.2) Solution (c)

A meteoroid is a small rocky or metallic body in outer space. Meteoroids are significantly smaller than asteroids. They range in size from a grain of sand on up. A meteor is an object from outer space that enters Earth's atmosphere, but does not land on Earth. Instead, the particle burns up in the atmosphere, leaving a short-lived, glowing trail that traces part of its path through the sky. This phenomenon is called a meteor or "shooting star".

If a meteor is large enough to reach Earth, we call it a meteorite.

Most meteorites are generally larger than meteors.

In News - <http://www.thehindu.com/children/Happy-STARGAZING/article16735493.ece>

Q.3) Magnetospheric Multiscale Mission (MMS)

1. It is an unmanned space mission of NASA
2. It helps in understanding auroras, sun flares and black holes

Which of the above statement is /are correct?

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.3) Solution (c)

The four MMS satellites set the new space record **by using GPS navigation at an altitude** of 43,500 miles (70,000 kilometres) above Earth's surface. The satellites use GPS, which is a **navigation system** that pinpoints locations by checking in with devoted satellites in orbit, to stay in a tight flying formation as they **survey Earth's magnetic field**.

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The Magnetospheric Multiscale Mission (MMS) is a NASA unmanned space mission to study the Earth's magnetosphere, using four identical spacecraft flying in a tetrahedral formation. The spacecraft were launched on 13 March 2015. It is designed to gather information about the **microphysics of magnetic reconnection**, energetic particle acceleration, and turbulence, processes that occur in many astrophysical plasmas.

Understanding the causes of magnetic reconnection is important for understanding phenomena around the universe from auroras on Earth, to flares on the surface of the sun, and even to areas surrounding black holes.

a natural electrical phenomenon characterized by the appearance of streamers of reddish or greenish light in the sky, especially near the northern or southern magnetic pole. The effect is caused by the interaction of charged particles from the sun with atoms in the upper atmosphere. In northern and southern regions it is respectively called *aurora borealis* or *Northern Lights* and *aurora australis* or *Southern Lights*.

In News - <http://www.thehindubusinessline.com/news/science/nasa-satellites-break-guinness-world-record/article9309589.ece>

Q.4) Which of the following is are correctly matched?

1. Sanjay Gandhi National Park :: Mumbai
2. Chandrashekhar Azad Park :: Lucknow
3. Guindy National Park :: Chennai

Select the correct code:

- a) 1 and 3
- b) 2 and 3
- c) 1 and 2
- d) All of the above

Q.4) Solution (a)

Sanjay Gandhi National Park :: Mumbai

Chandrashekhar Azad Park :: Allahabad

Guindy National Park :: Chennai

In News - <http://www.thehindubusinessline.com/economy/policy/esz-notification-on-land-around-sanjay-gandhi-park/article9413960.ece>

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Q.5) Turkey is located between

- a) Gulf of Suez and Mediterranean Sea
- b) Black Sea and Caspian Sea
- c) Gulf of Aqaba and Dead Sea
- d) Black Sea and Mediterranean Sea

Q.5) Solution (d)

