

# SCIENCE & TECH BASED INDIAN GENERAL AWARENESS MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** International Renewable Energy Agency (IRENA) is presently headed by

- a) Lars Rasmussen
  - b) G. Vishwanathan
  - c) Helene Pelosse
  - d) Adnan Z. Amin
- 

**Q2.** Consider the following statements:

- In 2008, Government of India adopted the Guidelines developed by the International Commission on Nonionizing Radiation Protection from mobile towers.
- The values chosen for the permissible Power Density (Mobile radiation) are 4.5 W/Sqm for 900 Mhz & 9 W/Sqm for 1800 Mhz.

Which of the above statement are/is true?

- a) 1 only
  - b) None
  - c) 1 and 2 both
  - d) 2 only
- 

**Q3.** Dactylogram is related with :

- a) perambulator
  - b) finger print
  - c) cereals
  - d) teleprinter
-

**Q4.** Which district has become the first one in India to have high speed Rural Broadband Network

- a) Idukki of Kerala
- b) Hisar of Haryana
- c) Ajmer of Rajasthan
- d) Vidisha of Madhya Pradesh

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**Q5.** A geostationary satellite revolves round the earth from

- a) West to East
- b) South to North
- c) North to South
- d) East to West

**Q6.** Which of the following pairs are correct? Disease Caused by

- Swine flu Protozoa
- Malaria Bacteria
- Measles Virus
- Athlete's foot Fungi

Codes:

- a) 2 and 3 only
- b) 3 and 4 only
- c) 1 and 2 only
- d) 2 and 4 only

**Q7.** Russian capsule Bion-M returned after a monthlong space tour with the animal

- a) dog
  - b) tortoise
  - c) monkey
  - d) mice, newts.
- 

**Q8.** Which of the following resources is renewable one ?

- a) Coal
  - b) Natural Gas
  - c) Timber
  - d) Uranium
- 

**Q9.** Consider the following statements.

- North Korea government claimed that it has successfully conducted a hydrogen bomb test.
- CTBT is the universally accepted norm against nuclear testing has been respected by 186 countries since 1995.
- The country conducted underground tests to set off nuclear devices in 2006, 2009 and 2013, for which it has been subject to U.N. Security Council sanctions banning trade and financing activities that aid its weapons programme.

Which of the above statements is/are correct?Codes:

- a) 1 and 3
  - b) 2 and 3
  - c) 1 and 2
  - d) None of them
- 

**Q10.** The orbits of planets around the sun may be

- a) Parabolic and hyperparabolic
  - b) Circular and great circular
  - c) Circular and parabolic
  - d) Elliptical (Ellipse)
-

**Q11.** Which of the following statement(s) is/are correct?

- Malaria is mainly a tropical disease.
- RTS,S, to be launched soon, is claimed to be the first Malarial Vaccine

Choose the **correct** option from the codes given below:

- a) 2 only
  - b) Both 1 and 2
  - c) 1 only
  - d) Neither 1 Nor 2
- 

**Q12.** Genetically modified “golden rice” has been engineered to meet human nutritional requirements. Which one of the following statements best qualifies golden rice ?

- a) Its modified genes cause the synthesis of all the nine essential amino acids
- b) The grains have been fortified with genes to provide three times higher grain yield per acre than other high yielding varieties
- c) Its grains contain pro-vitamin A which upon ingestion is converted to vitamin A in the human body
- d) Its modified genes cause the fortification of its grains with vitamin D.

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**Q13.** Consider the following statements:

- INS Kolkata is the largest warship in India
- INS Kolkata is an indigenous warship
- BrahMos missile has been test fired from INS Kolkata

Which of the above statements are correct?

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

**Q14.** Hybridoma technology is a new biotechnological approach for commercial production of

- a) antibiotics
- b) monoclonal antibodies
- c) interferon
- d) alcohol

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**Q15.** Indian and Russian scientists successfully test-fired a supersonic cruise missile named

- a) GSLV
- b) INSAT –3B
- c) Brahmos
- d) GSAT – 1

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**Answers to the above questions :**

**Q1. Answer: (a)**

Adnan Z. Amin was elected as the Director General of the International Renewable Energy Agency (IRENA) in April 2011. Helene Pelosse was the earlier Directorate General of IRENA. She served in this position for 15 months, from June 30, 2009 until October 21, 2010.

**Q2. Answer: (c)**

At present, for 900 MHz, permissible Power Density is 4.5 Watt per Square meter, whereas for 1800 MHz permissible Power Density is 9 Watt per Square meter.

**Q3. Answer: (b)**

Dactylogram is simply a fingerprint. The word originates from the Greek word 'daktylos' which loosely translates to 'something written'. The study of fingerprints for identification purposes is called dactylography.

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### Q4. Answer: (a)

Idukki district of Kerala has become first district in India to have high speed Rural Broadband Network i.e. National Optical Fibre Network (NOFN) Internet connectivity. NOFN is the largest rural connectivity project of its kind in the world.

### Q5. Answer: (a)

A geostationary satellite is an earth-orbiting satellite, placed at an altitude of approximately 35,800 kilometres (22,300 miles) directly over the equator, that revolves in the same direction the earth rotates (west to east).

At this altitude, one orbit takes 24 hours, the same length of time as the earth requires to rotate once on its axis. The term geostationary comes from the fact that such a satellite appears nearly stationary in the sky as seen by a ground-based observer.

### Q6. Answer: (b)

Swine flu/influenza is caused by virus. There are several types of swine influenza such as influenza C and influenza A (includes H1N1, H1N2, H2N1, H3N1, H3N2, and H2N3). Malaria is caused by protozoa, plasmodium.

**Q7. Answer: (d)**

A Russian Capsule Bion-M craft that was filled with 45 mice and 15 newts along with other animals returned from a month's long mission in Orbit on 19 May 2013.

**Q8. Answer: (c)**

Timber is a renewable resource, like plantation forests, which are planted and then cut down to make paper. It is sometimes called a sustainable resource, so long as we keep planting and growing trees at the same rate as we cut them down. Fossil fuels such as coal, petroleum, and natural gas are non-renewable resources.

**Q9. Answer: (a)**

CTBT is the universally accepted norm against nuclear testing has been respected by 183 countries since 1996.

**Q10. Answer: (d)**

The orbit of a planet around the Sun is an ellipse, with the Sun in one of the focal points of the ellipse. [This focal point is actually the barycenter of the Sun planet system; for simplicity, this explanation assumes the Sun's mass is infinitely larger than that planet's.] Within a planetary system, planets, dwarf planets, asteroids (a.k.a. minor planets), comets, and space debris orbit the barycenter in elliptical orbits.

A comet in a parabolic or hyperbolic orbit about a barycenter is not gravitationally bound to the star and therefore is not considered part of the star's planetary system. Bodies which are gravitationally bound to one of the planets in a planetary system, either natural or artificial satellites, follow orbits about a barycenter near that planet.

Galileo believed that the inertial path of a body around the Earth must be circular. Lacking the idea of Newtonian gravitation, he hoped this would allow him to explain the path of the planets as circular inertial orbits around the Sun.

When Newton solved this problem, he showed that there are four possible paths for the planets: circular, elliptical, parabolic and hyperbolic (all are conic curves). The first two curves are closed and the other two are open curves. These results were obtained for the same energy and with the sun at rest.

**Q11. Answer: (b)**

RTS,S, world's first malaria vaccine would be launched by 2015 by GSK.

**Q12. Answer: (c)**

Golden rice is genetically modified rice. It contains Beta carotene and other carotenoids. Provitamin A (Beta carotene) upon ingestion is converted to Vitamin A in the body.

**Q13. Answer: (b)**

INS Kolkata is the largest indigenous warship and is yet to be commissioned.

**Q14. Answer: (b)**

Hybridoma technology is used to commercially produce of monoclonal antibodies. The monoclonal antibodies are protective proteins produced by the clone of single immune cell.

**Q15. Answer: (c)**

BrahMos is a stealth supersonic cruise missile that can be launched from submarines, ships, aircraft or land. It is a joint venture between Republic of India's Defence Research and Development Organisation (DRDO) and Russian Federation's NPO Mashinostroeyenia.

Note : A hypersonic version of the missile, BrahMosII, is also presently under development with speed of Mach 7-8 to boost aerial fast strike capability. It is expected to be ready for testing by 2017. The name BrahMos is a portmanteau formed from the names of two rivers, the Brahmaputra of India and the Moskva of Russia. In 2016, as India became a member of the Missile Technology Control Regime (MTCR), India and Russia are now planning to jointly develop a new generation of BrahMos missiles with 600 km-plus range and an ability to hit protected targets with pinpoint accuracy.

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