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Q1. Which country launched first ever deep UV laser device?

- a) Canada
 - b) UK
 - c) China
 - d) USA
-

Q2. Which of the following statements are correct?

- Dr. K Radhakrishnan, the Head of ISRO, has topped the list of eminent scientist in Nature, a science magazine.
- Mars Orbiter Mission has been named as the most important scientific Breakthrough of the Year 2014 by Science journal.

Codes:

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

Q3. The French scientists developed a headset that give humans 360 degree vision called

- a) Rotate VIZ
 - b) VISION
 - c) 360° VIZ
 - d) Fly VIZ
-

Q4. Consider the following statements:

- A smart card is a plastic card with an embedded microchip.
- Digital technology is primarily used with new physical communication mediums such as satellite and fibre optics transmission.
- A digital library is a collection of documents in an organized electronic form available on the internet only.

Which of the statements given above is/are **correct**?

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

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Q5. The space shuttle which took Sunita Williams beyond earth was

- a) Galileo
- b) Voyager-2
- c) Discovery
- d) Challenger

Q6. Consider the following Statements about 'Twitter Samvad'.

- It is a new digital platform in association with social networking giant Twitter which has been launched by Indian Government.
- The service aims to boost the nation's e-governance plans and facilitate direct communication between leaders, government agencies and citizens.
- Twitter Chief Executive is Mark Elliot Zuckerberg.

Which of the statements given above is/are correct?

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

Q7. To meet its rapidly growing energy demand, some opine that India should pursue research and development on thorium as the future fuel of nuclear energy. In this context, what advantage does thorium hold over uranium?

- Thorium is far more abundant in nature than uranium.
- On the basis of per unit mass of mined mineral, thorium can generate more energy compared to natural uranium.
- Thorium produces less harmful waste compared to uranium.

Which of the statements given above is/are correct?

- a) 1 only
- b) 1 and 3
- c) 2 and 3
- d) None

Q8. Which of the following statements are **correct** about Very-small-aperture terminal?

- It is two way satellite ground station
- Its Data rates generally range from 4 kbit/s up to 4 Mbit/s
- It access geosynchronous orbit to relay data from small remote earth stations

Codes:

- a) 2 and 3 only
- b) 1 and 3 only
- c) 1 and 2 only
- d) All of these

Q9. Name the country which launched the first Satellite "Sputnik" into the space.

- a) Soviet Union
- b) England
- c) Japan
- d) United States of America

Q10. ISRO is abbreviation for

- a) International Space Research Organisation
 - b) Indian Space Research Organisation
 - c) International Sales Research Organisation
 - d) Indian Scientific Research Organisation
-

Q11. Consider the following statements:

- NASA's Hubble Space Telescope has spotted massive saltwater ocean under the icy crust of Jupiter's largest moon Ganymede.
- Ganymede is the largest moon in our solar system.
- It is also the only moon with its own magnetic field.

Which of the statements given above is/are correct?

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

Q12. Which of the following is a stealth aircraft virtually undetectable even by radar?

- a) B1-B Lancer
 - b) FA-18 Hornets
 - c) B-52 Stratofortrees
 - d) B-2 Spirit
-

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Q13. The world's lightest substance produced by China called

- a) Carbon Aero
- b) None of these

c) Carbon Aerogel

d) Carbon Aerosol

Q14. What is the name of Research Station established by Indian Government for conducting research in Antarctic ?

a) Yamunotri

b) None of the above

c) Uttari Gangotri

d) Dakshin Gangotri

Q15. Which of the following statements are correct?

- Green diesel is chemically same as biodiesel.
- Green diesel can be made from vegetable oils, waste cooking oil and animal fats.
- A Boeing aircraft ecoDemonstrator 787 is the first test flight to use green diesel blended with petroleum jet fuel.

Codes:

a) 1 and 3 only

b) 2 and 3 only

c) 1 and 2 only

d) None of these

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Answers to the above questions :

Q1. Answer: (c)

The Chinese Academy of Sciences (CAS) has launched a deep ultraviolet (DUV) solid-state laser device, making the country first-ever in the world to possess such technology in September, 2013.

Q2. Answer: (b)

Science Journal (a US magazine) has been named Mission Rosetta as the most important scientific Breakthrough of the Year 2014.

Q3. Answer: (d)

Scientists Developed a headset that gives humans 360 degree Vision. French scientists claimed that they developed a new system called Fly VIZ which enables humans to get 360 degree vision.

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Q4. Answer: (a)

A digital library is a library in which collections are stored in digital formats (as opposed to print, microform, or other media) and accessible by computers. The digital content may be stored locally, or accessed remotely via computer networks. Thus, it can be available extra then internet also.

Thus, statement 3 is wrong while 1 and 2 are correct. A smart card, chip card, or integrated circuit card (ICC), is any pocket-sized card with embedded integrated circuits. American engineers began developing digital technology in the mid-twentieth century. Digital technology enables immense amounts of information to be compressed on small storage devices that can be easily preserved and transported.

Digitization also quickens data transmission speeds. Telecommunications has relied on digital methods to transmit messages. In the early 1980s, enhanced fibre optics enabled the development of digital communication networks.

Communication satellites known as direct broadcast satellites (DBS) transmitted compressed digital signals for viewers to receive several hundred television programming choices.

Q5. Answer: (c)

Sunita Williams was launched to the International Space Station (ISS) with STS-116, aboard the Space Shuttle Discovery, on December 9, 2006, to join the Expedition 14 crew. Discovery is one of the orbiters from NASA's Space Shuttle program and the third of five fully operational orbiters to be built.

Q6. Answer: (c)

Twitter Chief Executive Dick Costolo. Mark Elliot Zuckerberg is the founder of social networking website Facebook.

Q7. Answer: (a)

Thorium is far more abundant in nature than uranium.

Q8. Answer: (d)

A very small aperture terminal (VSAT), is a two-way satellite ground station or a stabilized maritime VSAT antenna with a dish antenna

Q9. Answer: (a)

Sputnik 1 was the first artificial Earth satellite. It was a 585 mm diameter polished metal sphere, with four external radio antennae to broadcast radio pulses. The Soviet Union launched it into an elliptical low Earth orbit on 4 October 1957.

Q10. Answer: (b)

The Indian Space Research Organisation (ISRO) is the primary space agency of the Indian government. ISRO is amongst the six largest government space agencies in the world, along with NASA, RKA, ESA, CNSA and JAXA. Its primary objective is to advance space technology and use its applications for national benefit. Established in 1969, ISRO

superseded the erstwhile Indian National Committee for Space Research (INCOSPAR).

Headquartered in Bangalore, ISRO is under the administrative control of the Department of Space, Government of India. ISRO has achieved numerous milestones since its establishment. India's first satellite, Aryabhata, was built by ISRO and launched by the Soviet Union in 1975. Rohini, the first satellite to be placed in orbit by an Indian-made launch vehicle, SLV-3, was launched in 1980.

ISRO subsequently developed two other rockets: the Polar Satellite Launch Vehicle (PSLV) for putting satellites into polar orbits and the Geosynchronous Satellite Launch Vehicle (GSLV) for placing satellites into geostationary orbits.

These rockets have launched numerous communications satellites, earth observation satellites, and, in 2008, Chandrayaan-1, India's first mission to the Moon.

Q11. Answer: (d)

Scientists believe that this finding could potentially support life. NASA's Galileo mission had provided first evidence of ocean in Ganymede after measuring its magnetic field in 2002.

Q12. Answer: (c)

The Boeing B-52 Stratofortress is a long-range, subsonic, jet-powered strategic bomber. The B-52 was designed and built by Boeing, which has continued to provide support and upgrades. It has been operated by the United States Air Force (USAF) since the 1950s. The bomber carries up to 32,000 kg of weapons.

Due to the late 1950s-era threat of surface-to-air missiles (SAMs) that could threaten high-altitude aircraft, seen in the practice in the 1960 U-2 incident, the intended use of B-52 was changed to serve as a low-level penetration bomber during a foreseen attack upon the Soviet Union, as terrain masking provided an effective method of avoiding radar and thus the threat of the SAMs.

Although never intended for the low-level role, the B-52's flexibility allowed it to outlast several intended successors as the nature of aerial warfare changed.

Q13. Answer: (c)

The world's lightest substance has been developed by Chinese scientists of Zhejiang University - Carbon aerogel that has a density of only one sixth of that of the air. Its density is only 0.16 mg/cubic centimetre, less than previously recorded lightest substance, graphite

aerogel.

Q14. Answer: (d)

Dakshin Gangotri was the first scientific base station of India situated in Antarctica, part of the Indian Antarctic Program. It is located at a distance of 2,500 kilometres from the South Pole. It was abandoned in 1988-1989 after it was submerged in ice. It was succeeded by the Maitri.

Q15. Answer: (b)

Green diesel is chemically distinct fuel product than biodiesel.

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