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Q1. Which of the following names of animals was sent to space on 3rd Nover 1957?		
a) Otolith		
b) Laika		
c) Belka		
d) Baker		
Q2. India's advanced communication satellite GSAT-8 was launched on May 21 2011 from		
a) Hassan		
b) Kourou		
c) Thiruvananthapuram		
d) Sriharikota		
Q3. Consider the following statements:		
<ul> <li>GSLV-D3 has failed to put in orbit an advanced communication satellite called GSTA-4,</li> <li>The main high lights of GSAT-4 were its communication system in ka band. Its GAGAN payload which would help in the landing accuracy of commercial aircraft at airports in India.</li> <li>GAGAN Stands for GPS-aided Geo-Augmented navigation System. GPS isshortfor Global positioning system.</li> </ul>		
Which of the above statement is/are wrong? a) 3 only		
b) 2 only		
c) 1 only		

d) None

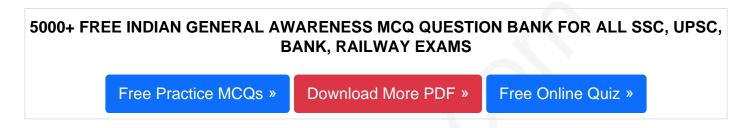
**Q4.** In which of the following activities are Indian Remote Sensing (IRS) satellites used?

Assessment of crop productivity

- Locating groundwater resources.
- Mineral exploration
- Telecommunication
- Traffic studies

Select the **correct** answer using the code given below.

- a) Only 1, 2 and 3
- b) Only 4 and 5
- c) 1, 2, 3, 4 and 5
- d) Only 1 and 2



- **Q5.** Electrically charged particles from space travelling at speeds of several hundred km/sec can severely harm living beings if they reach the surface of the Earth. What prevents them from reaching the surface of the Earth?
- a) The Earth's magnetic field diverts them towards its poles
- b) Ozone layer around the Earth reflects them back to outer space
- c) None of the statement (A), (B) and (C) given above is correct
- d) Moisture in the upper layers of atmosphere prevents them from reaching the surface of the Earth

# Q6. Cryogenic temperature stands for temperatures

- a) Below 150°C
- b) Above 150°C
- c) -273°C
- d) Below -150°C

Q7. In the given picture/map 1, 2, 3 and 4 has marked to show the location o
space organization units. Match these units with the list given below and select the
correct answer using the codes given below. 1 2 3 4 List (a.) I.S.R.O. (b.) I.I.R.S
(c.) N.R.S.A. (d.) S.A.C. Code (a.) (b.) (c.) (d.)

- a) 4 1 2 3
- b) 1432
- c) 4 1 3 2
- d) 1423

### **Q8.** What is the Galileo Project?

- a) An inter-country programme of missile shield developed by the United States of America
- b) A project developed by India with assistance from Canada
- c) A multi-satellite navigation project being developed by the European Union
- d) An environmental protection project being developed by Japan

### Q9. Consider the following Statements:

- World's first electric satellites were successfully lifted off by a Space Exploration (SpaceX)
   Technologies rocket from Cape Canaveral Air Force Station, United States.
- The rocket was carrying two all-electric commercial satellites built by Boeing.
- It was lifted off from Cape Canaveral Air Force Station, United States.
- The satellites are owned by the French satellite provider Eutelsat and Asia Broadcast Satellite (ABS)

Which of the statements given above is/are correct?

- a) 2,3 and 4 only
- b) 1,3 and 4 only
- c) 1,2 and 3 only
- d) All of the above

### Q10. Selene-1, the lunar orbiter mission belongs to which one of the following?

- a) China
- b) European Union

- c) USA
- d) Japan

**Q11.** Which of the following is/are cited by the scientists as evidence/ evidences for the continued expansion of the universe?

- Detection of microwaves in space.
- Observation of redshift phenomenon in space.
- Movement of asteroids in space.
- Occurrence of supernova explosions in space.

Select the correct answer using the codes given below.

- a) 1 and 2
- b) Only 2
- c) None of the above
- d) 1, 3 and 4

Q12. According to NASA, the evidence for the presence of life on Mars found till today include

- a) Water alone
- b) Water and gypsum alone
- c) None of the above
- d) Water, gypsum and methane

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Q13. Which of the following is not used as rocket propellant?

- a) Liquid hydrogen
- b) Liquid oxygen
- c) Kerosene oil
- d) Liquid hydrazine

### **Q14.** 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) 2 and 3 only
- b) 1 and 3 only
- c) 1 and 2 only
- d) All of the above

### Q15. In the context of space technology, what is 'BHUVAN'?

- a) The name of the space vehicle proposed to be sent to the Moon to probe possible human habitation there
- b) A satellite launched by ISRO for promoting distant education in India
- c) A geoportal of ISRO with 3-D imaging capabilities
- d) A space telescope developed by India

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## Answers to the above questions:

Q1. Answer: (b)

Q2. Answer: (b)

Q3. Answer: (d)

All the given statements are correct.

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Q4. Answer: (a)
Q5. Answer: (a)
Q6. Answer: (d)
Q7. Answer: (c)
Q8. Answer: (c)
Q9. Answer: (d)
It will provide services like mobile, internet, video and other communications services to expand its reach into the Americas.
Q10. Answer: (d)

Q11. Answer: (a)
Q12. Answer: (d)
Q13. Answer: (d)
Q14. 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.

Q15. Answer: (c)

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