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Q1. With reference to India's satellite launch vehicles, consider the following statements:

1. PSLVs launch the satellites useful for Earth resources monitoring whereas GSLVs are designed mainly to launch communication satellites.

2. Satellites launched by PSLV appear to remain permanently fixed in the same position in the sky, as viewed from a particular location on Earth.

3. GSLV Mk III is a four-staged launch l vehicle with the first and third stages l using solid rocket motors; and the second and fourth stages using liquid rocket engines.

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

(a) 1 only

(b) 2 and 3

(c) 1 and 2

(d) 3 only

Q2. Satellite having the same orbital period as the period of rotation of the Earth about its own axis is known as

a) geostationary satellite

b) INSAT

c) stationary satellite

d) polar satellite

Q3. Consider the following statements?

(i) Thumba Equatorial Rocket Launching station in 1963 marked the beginning of India's space program.

(ii) Space commission & DOS was established in 1972.

(iii) Vikram sarabhai laid the foundation of ISRO

Which of the above are true?

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(a) i & ii

(b) i, ii & iii

(c) iii only

(d) ii only

Q4. Which of the pair is correct?

1. DAVINCI a) Trojans

2. LUCY b) Sun

3. Parker Probe c) Venus

a) 1 only

b) 1 and 3

c) 2 and 3 only

d) None of the above

Q5. New Shepherd rocket is owned by

a) SpaceX

b) NASA

c) Blue Origin

d) ESA

Q6. Dhawan 1 is

a) India’s 1st private rocket

b) India’s 1st private launch vehicle

c) India’s private cryogenic engine

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d) ISRO’s new launch vehicle

Q7. GEMINI system was made for helping

a) Farmers

b) Fishermen

c) Indian Army

d) Police

Q8. LUPEX will be the joint mission of

a) ISRO and NASA

b) NASA and ESA

c) NASA and CSA

d) ISRO and JAXA

Q9. Fuel used in the liquid vikas engine is

a) Liquid Oxygen and Liquid Hydrogen

b) Liquid Oxygen and Liquid Methane

c) Dimethylhydrazine and Nitrogen Tetraoxide

d) Isrosene

Q10. Which of the following is/are true?

1) Ramjet accelerates the air to supersonic velocities before combustion.

2) Scramjet engines are faster and efficient than ramjets.

a. Only 1

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b. Only 2

c. Both 1 and 2

d. Neither 1 nor 2

Q11. In which of the following states is located the Indian Astronomical Observatory?

a) Karnataka

b) Andhra Pradesh

c) Jammu and Kashmir

d) Uttrakhand

Q12. James Webb Space Telescope’s development was done by NASA in collaboration with which two Space agencies?

a) European Space Agency and Canadian Space Agency

b) European Space Agency and Indian Space Research Organisation

c) Canadian Space Agency and Indian Space Research Organisation

d) Indian Space Research Organisation and Roscosmos

Q13 What is difference between asteroids and comets?

1. Asteroids are small rocky planetoids, while comets are formed of frozen gases held together by rocky and metallic material.

2. Asteroids are found mostly between the orbits of Jupiter and Mars, while comets are found mostly between Venus and Mercury.

3. Comets show a perceptible glowing tail, while asteroids do not.

Which of the statements given above is/are correct?

(a) 1 and 2 only

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(b) 1 and 3 only

(c) 3 only

(d) 1,2 and 3

Q14. Which planet is made up of thick white and yellowish clouds of sulfuric acid?

a) Uranus

b) Venus

c) Neptune

d) Mars

Q15. Which one of the following is an ‘Air-to-Air’ missile?

a) Astra

b) Akash

c) Becquerel

d) Prithvi

Q16. Consider the following statements regarding the PINAKA Rocket System:

1. It is a beyond visual range air to air missile system.

2. It has been developed by the Dassault Aviation of France

Which of the statements given above is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

Q17. Consider the following statements regarding the Brahmos missile:

1. It is a hypersonic cruise missile.

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2. The missile uses air-breathing ramjet propulsion.

Which of the statements given above is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

Q18 Consider the following statements regarding the Barak 8 missile:

1. It is a beyond-visual-range air-to-air missile.

2. It has been jointly developed by the Israel Ministry of Defense (IMOD) and the DRDO (Defence Research and Development Organization).

Which of the statements given above is/are correct?

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

Q19. The “Dhanush Regiment” is recently in news is related to which of the following?

a) Artillery Guns

b) Unmanned Aerial Vehicles

c) Stealth Frigates

d) Light Weight Helicopters

Q20. Consider the following statements regarding the BeiDou:

1. It is the satellite navigation system of China.

2. The area of coverage of the Beidou system is limited to the China’s territory only.

Which of the statements given above is/are correct?

a) 1 only

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b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

Q21. Which of the following statement(s) is/are correct regarding the Indian National Space Promotion and Authorization Center (IN-SPACe)?

1. IN-SPACe is to work as a single window nodal agency for usage of ISRO facilities by Non-Government-Private-Entities (NGPEs).

2. It is to oversee the space activities of NGPEs including building of launch vehicles and satellites

Select the correct answer using the code given below:

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

Q22. The term “Saggitarus \*A” is often seen in news is related to which of the following?

a) Meteorite

b) Black hole

c) Goldilocks zone

d) Asteroids

Q23. Consider the following statements regarding the Small Satellite Launch Vehicle:

1. It has the capability to deliver payload 500kg at a height of 500km.

2. It has all solid motor stages only.

3. It can accommodate multiple satellites like GSLV and PSLV.

Which of the statements given above is/are correct?

a) 1 only

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b) 1 and 2 only

c) 1 and 3 only

d) 1, 2 and 3

Q24. The Vikas engine is/are the workhorse for which of the following Launch Vehicles?

1. Augmented Satellite Launch Vehicle (ASLV)

2. Polar Satellite Launch Vehicle (PSLV)

3. Geo-synchronous Launch Vehicle (GSLV)

Select the correct answer using the code given below:

a) 1 only

b) 1 and 2 only

c) 2 and 3 only

d) 1, 2 and 3

Q25. The DART mission is going to launch by NASA in July 2021 is related to which ofthe following?

a) Asteroids

b) Jupiter Planet

c) Sun

d) Venus Planet