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Q.1) Consider the following statements with respect to 'SPYDER'

1. It is a surface-to-air missile
2. It is an acquired missile system from Israel
3. It has a strike range of about 15 km in low altitude

Select the correct statements

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

Q.1) Solution (d)

The SPYDER (Surface-to-air PYthon and DERby) is an Israeli short and medium range mobile air defence system developed by Rafael Advanced Defense Systems with assistance from Israel Aerospace Industries (IAI).

'Spyder', an acquired missile system from Israel, is a short-range, quick reaction surface-to-air missile designed to strike an enemy air target within a very short time

The state-of-the-art missile has a strike range of about 15 km in low altitude. However, it is shorter than India's indigenously developed surface-to-air 'Akash' missile, which has a 25 km strike range.

Q.2) Consider the following statements with respect to 'Igla-S missile system'

1. It is Russian man-portable air defence systems (MANPADS) technology
2. It is designed for use against visible aerial targets at short range

Select the correct code:

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

Q.2) Solution (c)

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It is latest model of Russian MANPADS (Man-portable air-defense system) technology. It offers superior performance over earlier supplied SA-18 missiles to India.

It is designed for use against visible aerial targets at short range such as tactical aircraft, helicopters, unmanned aerial vehicle (UAVs), cruise missile, head-on or receding, in presence of natural (background) clutter and countermeasures.

Indian Army has picked Russia's Igla-S missile system as choice for its multibillion-dollar contract for man-portable air defence systems (MANPADS).

Q.3) Consider the following system with respect to '[Akash Missile](#)'

1. It is a medium-range ramjet supersonic cruise missile that can be launched from submarine, ships, aircraft, or land.
2. It is a joint venture between the Russia and India

Select the correct code:

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

Q.3) Solution (d)

Akash is a medium-range mobile surface-to-air missile defense system developed by the Defence Research and Development Organisation (DRDO) and produced by Bharat Dynamics Limited (BDL) for Missile Systems and Bharat Electronics (BEL) for other radars, control centers in India.

The missile system can target aircraft up to 30 km away, at altitudes up to 18,000 m.

It has the capability to "neutralise aerial targets like fighter jets, cruise missiles and air-to-surface missiles" as well as ballistic missiles.

It is in operational service with the Indian Army and the Indian Air Force.

Q.4) '[INDRA NAVY](#)' is a bilateral maritime exercise between Indian Navy and

- a) Russian Navy
- b) French Navy

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- c) Royal Navy
- d) Japanese Navy

Q.4) Solution (a)

Source: <http://pib.nic.in/PressReleaseDetail.aspx?PRID=1555298>

Q.5) Consider the following statements about [Wetland \(Conservation and Management\) Rules, 2017](#)

1. Salt Pans are identified as wetlands in the 2017 rules
2. It does not include artificial wetlands

Select the correct statements

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

Q.5) Solution (d)

A new legal framework for wetlands was passed, the Wetland (Conservation and Management) Rules, 2017, replacing the earlier Rules of 2010.

Supreme Court passed an order directing States to identify wetlands in the country within a stipulated timeframe.

The 2010 and 2017 Rules for wetlands both emphasise that the ecological character of wetlands ought to be maintained for their conservation. 'Ecological character' refers to processes and components which make the wetland a particular, and sometimes unique, ecosystem.

In the 2010 Rules, some related criteria were made explicit, such as natural beauty, ecological sensitivity, genetic diversity, historical value, etc. These have been omitted in the 2017 Rules.

Under the new Rules, no authority to issue directions, which are binding in nature to desist from any activity detrimental to wetland conservation, has been prescribed to State wetland authorities.

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Salt pans are an example how one use (of making salt) has trumped the other (of environmental balance). Salt pans as 'wetlands' have been omitted from the new Rules. They were identified as wetlands in the 2010 Rules, as they are often important sites of migratory birds and other forms of biodiversity. The omission in the 2017 Rules suggests that while saltpans do exist as wetlands, they do not require any conservation or ecological balance.

"wetland" means an area of marsh, fen, peatland or water; whether natural or artificial, permanent or temporary.

Read More -

[http://www.moef.nic.in/sites/default/files/Wetlands%20\(C&M\)%20Rules,%202017.pdf](http://www.moef.nic.in/sites/default/files/Wetlands%20(C&M)%20Rules,%202017.pdf)

