Ex. Carbofuran, methyl parathion, phorate and triazophos chemicals are used as pesticides in India to control insects in a wide variety of field crops.

Carbofuran is one of the most toxic carbamate (drived from carbamic acid) pesticides.

Parathion or methyl parathion has been banned in various countries due to its high toxicity to humans. Triazophos is a chemically toxic insecticide which could lead to headaches, blurred vision, dizziness etc., in humans. Phorate is also a highly toxic chemical compound, used as an insecticide.

57 E

Ex.

58 C

Ex.

59

Ex.

60 ⁴

61 ⁽

Ex.

62 [/]

Ex. is the second mission to the moon which was launched on 22 July, 2019 by India's Geosynchronous Satellite Launch Vehicle (GSLV Mk III). It reached lunar orbit on 19 August, 2019. Despite the crash-landing of the Lander, ISRO confirmed that all the instruments are onboard the orbiter and are working well.

63

Ex.

64 [[]

. . .

65 ^L

Ex. 66

Ex. On 14 September 2019, Russia's world first floating nuclear power plant has been completed. It is about 5,000 kilometre (3,100 miles) Arctic transfer to the country's far east. The floating nuclear power plant named 'The Akademik Lomonosov'. It will start operating by the end of the year from Pevek, the autonomous district of Chukotka. It will provide energy for around 1, 00,000 people and also power oil platforms.

67

Ex. Augmented Reality is a technology where the objects that reside in the real world are enhanced by computer-generated perceptual information. It allows individuals to be present in the world and improves the experience using the camera of smartphone or PC.

Virtual reality is the use of computer technology to craete a simulated environment. It immeres the user by making them feel like they are experiencing simulated reality. It replaces the user's real world environment

with a simulated one. Its applications include

entertainment and educational purposes.

68 ^A

Ex. The satellites of NASA had discovered 'First Nearby Super-Earth'. It is a planet that could possibly support life. The team of International Astronomers announced their findings in the publication Astronomy and Astrophysics. The new discovery is known as an exoplanet. It is basically a planet that orbits a star outside of our solar system.

69 Ex.

70 [[]

Ex. Zika virus was first detected in Uganda in 1947 by the scientists when they were researching on yellow fever. Zika Virus was named after the Zika Forest of Uganda. In the local language word, Zika means overgrown. In the research, scientists came across a different and apparently harmless virus transmitted by mosquitoes to monkeys and they named it as Zika.

71

Ex.

72 E

Ex.

73 A

Ex. 74 C

Ex.

75 D

Ex.

Ex.

77 A

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Ex. * Arteries are the vessels which carry blood away from the heart to various organs of the body. Since the blood emerges from the heart under high pressure, the arteries have thick, elastic walls.

* Veins collect the blood from different organs and bring it back to the heart. They do not need thick walls because the blood is no longer under pressure, instead they have valves that ensure that the blood flows only in one direction.

* Hence, only statement I is correct.

78 [[]

Ex.

79 [[]

Ex. The 'Additional Protocol' is not a stand-alone agreement, but rather a protocol to a safeguards agreement that provides additional tools for verification. In particular, it significantly increases the IAEA's abiilty to verify the peaceful use of all nuclear materials in states with comprehensive safeguards agreement. With the signing of additional protocol with IAEA, the civilian nuclear reactor comes under IAEA safeguards.

80 C

Ex. Terminal High Altitude Area Defense (THAAD), formerly Theater High Altitude Area Defense, is an American anti-ballistic missile defense system designed to shoot down short, medium, and intermediate-rangle ballistic missilies in thier terminal phase (descent or reentry) by intercepting with a hit-to-kill approach.

81

Ex.