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**Q.1) Consider the following statements about 'Extended Reality'**

1. It is a term referring to all real-and-virtual combined environments and human-machine interactions generated by computer technology and wearables.
2. It includes augmented reality (AR), augmented virtuality (AV) and virtual reality (VR).

**Select the correct statements**

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

**Q.1) Solution (c)**

Extended reality is a superset which includes the entire spectrum from "the complete real" to "the complete virtual" in the concept of reality–virtuality continuum introduced by Paul Milgram. Still, its connotation lies in the extension of human experiences especially relating to the senses of existence (represented by VR) and the acquisition of cognition (represented by AR). With the continuous development in human–computer interactions, this connotation is still evolving.

Extended reality (XR or Cross Reality) is a term referring to all real-and-virtual combined environments and human-machine interactions generated by computer technology and wearables. It includes representative forms such as augmented reality (AR), augmented virtuality (AV) and virtual reality (VR) and the areas interpolated among them. The levels of virtuality range from partially sensory inputs to immersive virtuality, also called VR.

Source: <https://www.thehindu.com/news/cities/Hyderabad/city-startups-soar-with-boeing/article24732515.ece>

**Q.2) Consider the following statements about 'Basking Sharks'**

1. They occur in temperate and boreal oceans
2. They hibernate during winters
3. It is a plankton-eating shark species

**Select the correct statements**

- a) 1 and 2
- b) 2 and 3

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- c) 1 and 3
- d) All of the above

### Q.2) Solution (c)

The basking shark (*Cetorhinus maximus*) is the second-largest living shark, after the whale shark, and one of three plankton-eating shark species, along with the whale shark and megamouth shark.

The basking shark is a cosmopolitan migratory species, found in all the world's temperate oceans. The basking shark is a coastal-pelagic shark found worldwide in boreal to warm-temperate waters around the continental shelves, and entering into brackish waters on occasion.

Basking sharks do not hibernate, and are active year-round. In winter, basking sharks often move to deeper depths, even down to 900 m (3,000 ft) and have been tracked making vertical movements consistent with feeding on overwintering zooplankton

IUCN Status – VN

Source: <https://www.thehindu.com/sci-tech/science/mysterious-ocean-giant-sighted/article24731784.ece>

### Q.3) Amnesty International is

- a) An agency of the United Nations to help refugees of civil wars
- b) A global Human Rights Movement
- c) A non-governmental voluntary organization to help very poor people
- d) An inter-governmental agency to cater to medical emergencies in war-ravaged regions

### Q.3) Solution (b)

Amnesty International is a London-based non-governmental organization focused on human rights. The organization claims to have over 7 million members and supporters around the world.

Source: <https://www.thehindu.com/news/national/department-of-revenue-receives-reference-to-probe-groups-linked-to-amnesty-uk/article24720599.ece>

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**Q.4) Which of the following statements correctly defines the practice of 'Intercropping'?**

- a) Different crops are grown in the same field in different rows
- b) Different crops are grown successively on the same field in different seasons.
- c) Growing a crop and rearing of animals in the same field.
- d) Alternate growth of crops and leaving the land fallow.

**Q.4) Solution (a)**

**Intercropping:** Different crops are grown in the same field in different rows and at different times to avoid exposing the bare land to water or wind.

**Crop Rotation:** It is a practice of growing different crops in systematic succession. This helps in maintaining the level of nutrients in the soil and also pest control.

**Source:** <https://www.financialexpress.com/market/commodities/area-under-soybean-up-10-percent-this-year/1286774/>

**Q.5) Meiteis are majority ethnic group of**

- a) Manipur
- b) Mizoram
- c) Assam
- d) Nagaland

**Q.5) Solution (a)**

The Meitei people are the majority ethnic group of Manipur and because of this they are sometimes referred to as Manipuris. Generally speaking, Meitei is an endonym and Manipuri is an exonym. The Meitei people are made up of seven clans, who trace their written history back to 33 AD.

The Meitei people speak the Meitei language, a Tibeto-Burman language. Meiteis believe that the ancestor of one of their clans manifested himself as Pakhangba, a mythical dragon.

**Source:** <https://www.thehindu.com/society/young-and-passionate-about-theatre-craft/article24581990.ece>