

Chapter 2- Beyond the reality

Month - June

Class - VI Std.

Answer the following question:

1. Explain Virtual Reality with two real-life uses.

Ans. Virtual Reality (VR) is a technology that creates a simulated environment that users can interact with and explore. People use special devices like VR headsets, gloves, or controllers to interact with the virtual world.

Features of VR are:

- 1) Stereoscopic vision
- 2) Stereoscopic audio
- 3) Motion tracking
- 4) Control and interaction.

Real-life uses of VR:

- 1) Education:

Students can explore Solar System Virtual

- 2) Gaming and Entertainment:

Players can move and interact inside the game world.

2) Differentiate between AR, VR and MR.

Ans	AR	VR	MR
	Augmented Reality adds digital objects to the real world.	Virtual Reality Creates a Completely Virtual World.	Mixed reality Combines real and Virtual worlds where both interact.
	It enhances the real world.	It replaces the real world.	It blends both real and Virtual Worlds together.
	Example: Pokémon Go, Snapchat filters	Example: VR games, Virtual tours	Example: Virtual objects placed and moved in real rooms.

3) What is AR? Write its features and applications.

Ans Augmented Reality (AR) is a technology that adds digital content onto the real world. To experience AR, we need a smartphone, and an AR-based app.
Example: Arloop app used in smartphone.

Features of Augmented Reality:

i) object detection- It is used to identify objects, images, and associate them with

Corresponding digital Content.

- 2) Spatial mapping - It helps to integrate digital Content with real world.
- 3) Digital assets - It has 3D models, textures, images to be added to the real world.

Applications of AR:

- 1) Medical Field:

for Surgery training, guidance and studying human body parts in 3D.

- 2) Navigation and Maps

AR helps users by showing directions and location information on the screen while moving.

Competency Based Questions:

1. A tourism company lets users hold up their phones to view historical monuments with facts appearing on screen. What technology is this?

Ans. Augmented Reality (AR)