

much better understanding of the interaction of environment, climate and humans in the past. Nevertheless, all of the methods mentioned here still have potential for improvement with regard to precision, accuracy, age range and materials suitable for dating and these are presently being explored.

Relative dating	Absolute dating	
Stratigraphy	Radiocarbon dating	
Geological calendar	Potassium- argon dating	
Glacial calendar	Thermoluminescence dating	
Fossil fauna calendar	Archaeomagnetic dating	
River terraces	Dendrochronology	
Fluorine test dating	Varve analysis	
Nitrogen dating	Oxygen 16/ 18 Ratio method	
Palynology (pollen dating)	Obsidian hydration dating	
Patination		

Absolute Dating versus Relative Dating

Absolute dating	Relative dating	
A technique used to determine the exact age of the artefact or a site using methods such as carbon dating	A technique used to determine which object or item is older in comparison to the other one	
Determines the numerical age	Arranges fossils in an order	
Four methods are radiometric dating, amino acid dating, dendrocharonology, and thermoluminescence	Involves biostratigraphy, stratigraphy, and cross dating	
Precision is high	Precision is low	
Quantitative measurement	Qualitative measurement	
Works better for igneous and metamorphic rocks	Works better for sedimentary rocks having layered arrangement of sediments	
Expensive and takes time	Less- expensive and efficient	

^{**}You may take up points from stratigraphy and c-14 dating as explanation of methods

Q.6 Write short notes on the following topics:

(a) Olduvai Gorge 10

(b) Salient features of Mesolithic culture 10

(c) Bhimbetaka 10

(d) Sohan culture 10

(a) Olduvai Gorge 10

Approach:

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