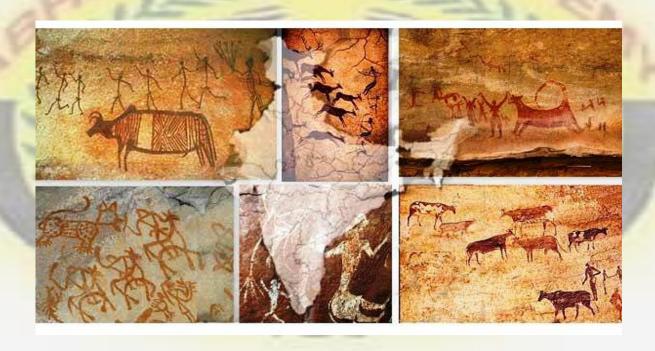




NDA CDS/ CAPF(AC)/ AFCAT and CUET UG



EARLY STONE AGE SOME ARCHAELOGICAL TERMS







Pre-Historic Period (30,00,000 BC-600 BC)

- It consists of five periods- Palaeolithic, Mesolithic, Neolithic,
 Chalcolithic and Iron age.
- No written records are available of this period.
- Archaeological remains from this period are stone tools, pottery, artifacts, and metal implements use by prehistoric people
- Robert Bruce Foote discovered what was probably the first
 Paleolithic tool discovered in India the Pallavaram handaxe.
- Robert Bruce Foote is known as the father of Prehistoric
 Archaeology.
- Sir Mortimer Wheeler contributed towards our knowledge of the prehistoric cultures of India and their sequence.



PALEOLITHIC OR OLD STONE AGE

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- The Paleolithic Age is the earliest period of the Stone Age, which developed in the Pleistocene period or the Ice Age.
- It spread in practically all parts of India except the alluvial plains of the Indus
 and Ganga.
- Quartzite men: Since the stone tools were made of a hard rock called quartzite, Paleolithic men are therefore also called Quartzite men in India."
- Hand Axe culture: The implements of this culture were found first in Madurai
 and Attirampakkam of Madras, so also called as Madrasian Culture..



Famous sites of old stone age

- Soan valley and Potwar plateau.
- Siwalik hills in north India.
- Bhimbetka in Madhya Pradesh.
- Adamgarh Hills in Narmada Valley.
- · Kurnool in Andhra Pradesh.
- Attirampakkam near Chennai.

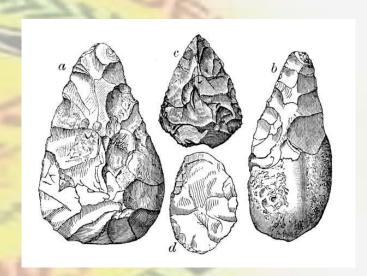


Lower Paleolithic Age

- ·Evolution: Hunting and food gathering.
- ·Lived in trees and in caves.
- •Tools: Simply chopper-chopping i.e., crude and rough tools prepared out of pebbles. Choppers, Hand Axes and Cleavers.

·Sites:

- Soan and Sohan river valley (now in Pakistan)
 Didwana, (Rajasthan)
- ·Hiran Valley (Gujarat)
- •Rock shelters of Bhimbetka (MP),
- Belan Valley of Mirzapur (UP).



Middle Paleolithic Age

- Evolution: Language was invented in this period. Men remained hunters and food gatherers.
- Flake culture: due to excessiveness of implements made from flakes. Refined and lighter tools made of harder stone material like flint were used.
- •Sites: Soan, Narmada and Tungabhadra river valleys, Potwar plateau (between Indus and Jehlum), Sanghao Cave (near Peshawar, Pakistan).

Upper Paleolithic age

- ·Tools flake-blade culture
- •Sites: Found in Andhra Pradesh, Karnataka, Maharashtra, central MP, southern UP and chotanagpur plateau. Bones found only at cave sites of Kurnool.









MESOLITHIC OR MIDDLE STONE AGE

- In India, the credit of discovery of Mesolithic archaeological material goes to John Evan.
- First burials are reported and use of stoneornaments also appears. Domestication of animals like sheep and goats is found.
- Tools: Microlith tools i.e., tools made of microsized stones which were very refined.
- •Sites: Bhimbetka, Mahadaha, Sarai Nahar Rai, Adamgarh (MP), Langhnaj (Gujarat), etc. Earliest cave paintings are found at Bhimbetka (UNESCO World Heritage Site).



NEOLITHIC AGE OR NEW STONE AGE



- •In India, the credit of discovery of Neolithic archaeological material goes to Dr. Primrose.
- V.Gordon Childe termed the Neolithic phase as Neolithic Revolution.
- The Neolithic age saw man turning into a food producer from food gatherer.
- •Man lived in huts, reared cattle, developed agriculture used earthenware (both handmade and wheel-made).
- •Domestication of animals: cattle, sheep and goats was also done.
- •Tools: Sharper, symmetrical and polished stone tools for not only hunting but agriculture also.



Neolithic sites

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- Kashmir valley, Chirand (Bihar), Daojali Hading, Belan valley (UP), and Maski etc.
- Chopani-Mando, Belan valley: earliest evidence of use of pottery.
- Burzahom: unique rectangular chopper, domestic dogs buried with their masters.
- Koldihwa and Mahagara: earliest evidence of rice cultivation in the world.
- South India: Maski, Brahmagiri, Hallur and Kodekal in Karnataka, Paiyampalli in TN and Utnur in Andhra Pradesh.
- Koldihwa (Belan valley): presence of three-fold Neolithic,
 Chalcolithic and Iron Age settlements.
- •Mehrgarh (Pakistan): earliest Neolithic site known as the Breadbasket of Balochistan

CHALCOLITHIC (METAL) AGE



- •Chalco + Lithic was derived from the Greek words khalkos + lithos which means copper and stone or Copper Age.
- •The Chalcolithic culture corresponds to the farming communities: Kayatha, Ahar or Banas, Malwa, and Jorwe.

Settled & community life. Crops cultivated were: barley, wheat, lentil, bajra, jowar, ragi millets, green pea,

- green and black gram and cotton. Unaware of: Iron, horse and script.
- Marks the beginning of use metal in place of stone yet burnt brick was generally absent. High Child Mortality is indicated by a large number of child burials.
- •Tools/Idols: Knives, axes, fishing hooks, chisels, pins, and rods were made of copper and its alloys. Beads of semi-precious stones and the Terracotta image of Mother Goddess are reported.
- Copper and stone tools were used simultaneously. People were expert coppersmiths. Used Black and Red Ware, Painted pottery, in black pigment.
- •. Important sites: Navdatoli, Jorwe, Daimabad, Ahar Banas, Malwa, Inamgaon, Songaon, Nashik, Mehgam, Kausambi, Alamgirpur, Ropar etc



CHALCOLITHIC SITES

- •Ahara Culture- Aahar (Rajasthan), Balathal, Gilund etc. The distinctive feature is black and red ware.
- •Kayatha Culture Located in Chambal and its tributaries, the sturdy red slipped ware with chocolate designs is the main feature.
- •Malwa Culture- Narmada & its tributaries in Gujarat. One of the largest Chalcolithic settlements.
- •Savalda Culture Dhulia district of Maharashtra(painted black on red pottery)
- •Prabhas & Rangpur Culture- Both of them are derived from the Harappa culture. The polished red ware is the hallmark of this culture.

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EARLY IRON AGE

- The Chalcolithic age is followed by the Iron Age.
- Iron replace Bronze as a metal of choice.
- •Introduction of writing .
- •Iron is frequently referred to in the Vedas.
- •Iron age saw the development of astronomy, mathematics and metallurgy in India.
- The Iron Age of the southern peninsula is often related to megalithic burials.
 Megalith means large stone.
- The burial pits covered with these stones are extensively found in South India.

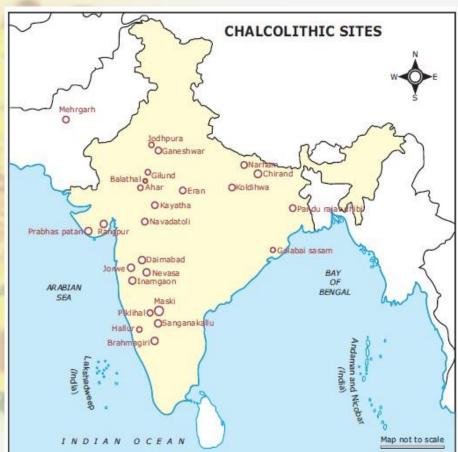


- •common iron tools-Axes
- New development of weaponssword and spear
- •Iron was also use for horseshoes and agriculture implements-plowshares
- •Important Megalithic Site-.

 Hallur and Maski in Karnataka,

 Nagarjunakonda in Andhra Pradesh

 and Adichchanallur in Tamil



Some Archaeological terms



- 1. Archaeological Site-The location of past focused human activities, defined in close proximity of continuous distribution of artifacts.
- 2. Artifact-An object (tool or ornament) showing human workmanship or modification.
- 3. Burial-Human remains disposed of by interment burials may be simple (containing the remains of one person) or complex (containing the remains of two or more individual.
- 4. Chipping, Knapping-Making stone tools by controlled flaking, either by percussion as in using hammer stone, or by exerting pressure on the stone edge with a pointed antler tool.
- 5. Ethnography-The study of a culture to obtain information on past and present life ways.
- 6. Excavation A systematic process of digging archaeological sites, removing the soil and observing the provenience and context of the finds (both cultural and noncultural) contained within, and recording them in a three-dimensional way.



- 8. Flake-A thin, flattened piece or chip of stone intentionally removed from the core rock by chipping with either a stone or bone hammer.
- 9. Flexed burial-A human interment in the fetal position, that is, with the legs and arms bent and drawn towards the ribs.
- 10. Lithic-Of or pertaining to a stone as in lithic artifacts.
- 11. Sacred Objects-Ceremonial objects which are used by traditional Native American religious leaders for the practice of traditional Native American religions.
- 12. Site-The location of past cultural activity; a defined space with more or less continuous archaeological evidence.
- 13. Spatial-Artifacts and features in close proximity that infer a relationship in time.
- 14. Unit-A defined area of excavation.



INDUS VALLEY CIVILIZATION



Dates of Indus Valley Civilization:



- 1. Sir John Marshall estimated Mohenjodaro's settlement between 3250 and 2750 B.C.
- 2. Subsequent excavations and radiocarbon dating techniques revised the chronology.
- 3. Dates have been suggested ranging from 2000 to 1500 B.C. by Fairservis and 2300 to 1750 B.C. by D.P. Agarwal.

Theories of Origin:

- 1. The Sumerian colonization theory suggests the introduction of language and script, although Sumerians' facial features remain unknown.
- 2. The Dravidian origin theory proposes that Harappans were Dravidians, supported by similarities in pottery and script.

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Location and Size:



- 1. Spanned 1,260,000 square kilometers across modern-day India, Pakistan, and Afghanistan.
- 2.1056 towns and communities discovered, with 96 excavated.
- 3. Spread from the Ghaggar-Hakra Valley in the east to the Makran coast of 4. Balochistan in the west, and from Afghanistan in the northeast to Daimabad in Maharashtra in the south.
- 5. Main cities include Harappa, Mohenjodaro, Dholavira, Ganweriwala, and Rakhigarhi.

Geography:

- 1. Term "Indus Valley Civilization" derived from the earliest village discovered along the Indus River.
- 2. About 100 sites found in the Indus Valley compared to about 500 along the Ghaggar-Hakra River.
- 3. Terms "Indus-Saraswati Civilization" and "Harappan Civilization" also used by archaeologists.

Alah alk

4. Ruins near Ghaggar-Hakra River possibly preserved due to being in an empty desert.

Indus Valley Civilization Overview:

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- 1. Population over 5 million, majority artisans and traders.
- 2. Majority lived in settlements, possibly made of flammable materials.
- 3. Lifestyle and culture of vanished settlements hard to learn about.
- 4. Highly developed civilization with organized lifestyle.
- 5. Towns well-planned despite large population, not chaotic.
- 6. Largest city: Mohenjo-Daro (300 hectares, possibly 40,000 people).
- 7. Smallest site: Allahdino.

Town Planning:

- 1. Produced world's first planned towns, with grid layouts.
- 2. Rectangular grid design, main streets north-south, lesser streets east-west.
- 3. Streets came together at straight angles, possibly due to religious beliefs.
- 4. Uniform, well-planned cities with great drainage systems.
- 5. Wide streets, possibly for market operations.
- 6. Burnt bricks used for roadways, drainage canals alongside streets.

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Drainage System:

- 1. Sophisticated sanitation systems.
- 2. Early understanding and practice of water channeling and waste disposal.
- 3. Advanced water management with separate wastewater and stormwater canals.
- 4. Subterranean wastewater drains with clay covers for cleaning.





Trade:



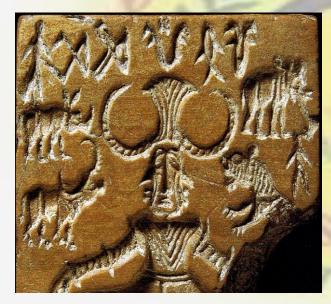
- 1.Indus Valley civilization earliest known use of cotton.
- 2.Cotton spun and woven by farmers.
- 3.Cotton is among exported materials.
- 4. Presence of port cities indicates extensive marine trading contacts.
- 5.Lothal potentially world's first dockyard, other ports include Allahdino, Suktagendor, and Balakot.

Social Life:

- 1.Both men and wom<mark>en w</mark>ore two pieces of cloth.
- 2.Ornaments such as beads, bangles, and bracelets were popular.
- 3.Cosmetics were widely used.
- 4. Fishing, bullfighting, and hunting were popular pastimes.
- 5. Limited written artifacts make defining the civilization's state and institutions difficult.

Religion and Worship:

- 1. Soil was venerated as a fertility goddess.
- 2. Various animal symbols were discovered.
- 3. Trees and animals were considered sacred.



Pashupati seal





Oldest Signboard: A stone symbol/letter board was found in Dholavira in 1999, likely the world's first signboard.

1999, likely the world's first signboard.

Hygiene and Cleanliness: The civilization maintained a clean environment with

public baths and advanced water management systems.

Burial Methods:

- 1.Both full burial and post-cremation burial were common.
- 2.Coffins and pot burials were used, with no substantial evidence of Sati practice.

Art:

- 1. Various toys and games were found, indicating a significant population of children.
- 2. Advanced craftsmanship was evident in items made from terracotta, bronze, copper, and beads.







Economic Facts of Indus Valley Civilization

- •Agricultural Foundation: Indus Valley Civilization thrived on robust agricultural practi
- ·Vibrant Trade and Commerce: Flourishing trade networks, evidenced by references in Mesopotamian texts to Meluhha, a significant trading partner likely representing the Indus Valley.
- ·Luxury Imports: Sumerians imported valuable goods like timber, ebony, sesame oil, and lapis lazuli from Meluhha.
- ·Lothal Dockyard: Discovery of a dockyard in Lothal emphasizes advanced maritime activities, facilitating trade.
- •Export-Import Dynamics: Clear evidence of both exports and imports in the economic landscape.
- •Cotton Production: The cultivation of cotton, evidenced by findings in Mehrgarh from the 6th B.C.
- •Standardized Measurement: The numeral '16'a unit of measurement highlights a standardized system.
- •Weights and Measures: Archaeological findings, especially at Lothal, reveal the existence of weights and measures, primarily cubical in shape and made from materials like limestone and steatite.

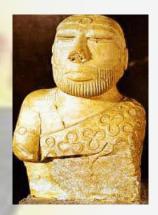
Harappan Seals: A Glimpse

- •Materials: Primarily crafted from soft steatite, with variations in gold, ivory, agate, terracotta, chert, and faience.
- •Iconic Imagery: Adorned with depictions of diverse animals like tigers, elephants, bulls, bison, goats, and mathematical symbols.
- •Distinct Square Shape: Uniform 2X2 dimensions characterize the shape of Harappan seals.
- •Intricate Inscriptions: Kharosthi-style writings on both sides, showcasing a right-to-left script.
- ·Pashupati Seal: Renowned among all, the Pashupati Seal from Mohenjo-Daro features a cross-legged figure at its centre, surrounded









Architectural Marvels of Indus Valley Civilization

- Mohenjodaro Granary: The largest building, measuring 150x50 feet, showcased advanced technology akin to Rome 2800 years later.
- ·Harappan Granaries: Six granaries in two rows at Harappa, built on raised platforms to withstand floods, foreshadowing sophisticated engineering.
- •Dholavira Water Reservoirs: Dholavira boasted 16 water reservoirs, highlighting advanced urban planning and water management.
- •Brick Varieties: Two brick sizes (7x14x28 cm and 10x20x40 cm) with a 1:2:4 ratio. Larger bricks for public buildings, smaller for houses.
- Unique Features: Houses with a single door, pioneering attached bathrooms—world's first.
- •Great Bath: Iconic Mohenjodaro structure, measuring 39x23x8 feet, symbolizing meticulous urban planning











Metallurgy in Indus Valley Civilization

- •Diverse Metal Production: Lead, copper, bronze, and tin were skillfully crafted into various metal products.
- ·Microscopic Gold Necklaces smaller than 0.25 mm in diameter, uncovered at Lothal.
- ·Casting Technique: Harappan copper implements were produced using advanced casting methods.
- IVC displayed remarkable proficiency in metal alloying technology.
- Innovative Tools: Discovery of a touchstone in Banawali, Haryana
 Ivory scale markings in Lothal

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General Facts about Indus Valley Civilization

- •Mehrgarh Origins: Mehrgarh, dating back to 7000 B.C., holds the title of the oldest known settlement, primarily a farming village.
- •Chanudharo Citadel: Uniquely, Chanudharo lacks a citadel, distinguishing it from other Indus Valley sites.
- ·Abundance of Seals: Over 4000 seals discovered across various sites, serving diverse purposes.
- ·Mohenjo-Daro's Iterations: Mohenjo-Daro was rebuilt at least nine times, showcasing its enduring significance.
- •Unexpected Professions: The surprising presence of dentists within the IVC, evident from the discovery of drilled molar crowns in Mehrgarh.
- •Historical Dental Milestone: Nature journal, in 2006, recognized Mehrgarh for the first evidence of live human teeth drilling, with 11 drilled molar crowns dating back to 5500-7000 B.C.
- Symbolic Diversity: Approximately 400 different symbols found inscribed in various objects, revealing a rich symbolic language



Other Important Facts:

- 1. The civilization emerged around 7000 B.C.
- 2. Numerous seals and artifacts have been discovered.
- 3. No evidence of a ruling monarch or warfare.

Decline:

The cause of the civilization's decline remains uncertain, with gradual abandonment due to environmental factors suggested as a possibility.







		1	ı		NDA CDC
SITE	DISTRICT	STATE	EXCAVATED BY	COUNTRY	FINDINGS
Kalibangan	Hanumangarh District	Rajasthan	Amlanand Ghose, 1953	India	- Lower fortified town, wooden drainage, copper ox, evidence cearthquake, wooden plough, fire alters and burnt bangles, came bones, furrowed land, smaller circular pits
Dholavira	Kutch District	Gujarat	R S Bisht, 1985	India	 Exclusive water management, divided into three parts, gia water reservoir, unique water harnessing system, dam embankments, stadium, rock-cut architecture
Lothal	Ahmedabad, Bhogva river	Gujarat	R. Rao, 1953	India	 Port town, graveyard, ivory weight balance, copper dog, fir manmade port, dockyard, rice husk, fire alters, chess-playing painted jar, bead making factory
Farmana	Rohtak District	Haryana	Vasant Shinde	India	- Largest burial site of IVC with 65 burials
Surkotada	Kutch District	Gujarat	J P Joshi, 1964	India	- Bones of horses, beads, stone covered beads
Banawali	Fatehabad District	Haryana	R S Bisht, 1974	India	- Beads, barley, oval-shaped settlement, radial streets, to plough, largest number of barley grains
Daimabad	Ahmednagar District	Maharashtra	BP Bopardikar, 1958	India	- Bronze chariot sculpture, other bronze sculptures
Harappa	Sahiwal District	Punjab	Daya Ram Sahni, 1921	Pakistan	- Indus script pottery, limestone weight, faience slag, statue copper bullock cart, granaries, coffin burials, terracotta figurine
	Larkana		R. D Banerjee,		- Great bath, granary, unicorn seals, bronze dancing girl statu Pashupati Seal, steatite statue, bronze buffalo, woven clothe

Pashupati Seal, steatite statue, bronze buttalo, woven clothes, R. D Banerjee, Mohenjo-Daro Sindh 1922 District Pakistan cylindrical seals Rakhigarhi Hisar District Haryana India India - Terracotta wheels, toys, figurines, pottery Baluchistan on - Trade point between Harappa and Babylon, flint blades, stone Sutkagendor Dast river Baluchistan Stein, 1929 Pakistan vessels, arrowheads, shell beads, pottery, clay bangles

·Major Sites of Indus Valley Civilization:

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Chanhudaro	Mullan Sandha on the Indus river	Sindh	Pakistan	- Bangle factory, inkpot, bead maker's shop, footprint of a dog chasing a cat, cart with a seated driver
	Close to			
	Balochistan, on the			- Antelope and rhinoceros
Amri	bank of Indus river	Balochistan	Pakistan	evidence

MAJOR SITES	LOCATION	ADDITIONAL INFORMATION
Harappa	Punjab Province, Pakistan	Urban center on the old riverbed of River Ravi.
Mohenjo Daro	Sindh Province, Pakistan	Located next to the river Indus.
		Situated on 'Khadir Beyt,' an island in Rann of
Dholavira	Rann of Kutch, Gujarat, India	Kutch.
Lothal	Gulf of Khambat, Gujarat, India	Near the Sabarmati river and Arabian Sea.
Rakhigarhi	Haryana, India (discovered in 1990)	
Ganeriwala	Punjab Province, Pakistan (near Indian border)	

MINOR SITES (UNDER EXCAVATION)	LOCATION
Gola Dhoro (Bagasara)	Gujarat, India
Daimabad	Maharashtra, India (near Mumbai)
Chanhudaro	Sindh, Pakistan (80 miles south of Mohenjo Daro)
Sutkagen Dor	Baluchistan





·Religion of the Indus Valley Civilisation

Aspect	Details
Mother Goddess	Matridevi or Shakti worshipped as the Mother goddess
Worship Practices	Yoni worship and Nature worship existed
Tree Worship	Trees like Peepal were objects of worship
Fire Worship	Fire, known as Havan Kund, was a significant element of worship
Pashupati Mahadeva	Chief male deity known as the lord of Animals, surrounded by elephant, tiger, rhino, and buffalo
Animal Worship	Unicorn and ox were among the animals worshipped



Important Terminologies



- •ABLUTIONS: A ceremonial act of washing parts of the body or sacred containers. The structure of the Great Bath found at Mohenjo-Daro indicates it was used for ablutions.
- •CITADELS: The Citadel is a large mound. The mound is built out of bricks and is in the western part of the city.
- •AMULETS: Amulet, an object, either natural or manmade, believed to be endowed with special powers to protect or bring good fortune
- ·MELUHHA: The Mesopotamian literature refers to the Harappan region as Meluha.
- ·DILMUN: The Mesopotamian texts mention contacts with a region called Dilmun
- •LAPIS LAZULI: Lapis Lazuli is a deep-blue metamorphic rock used as a semi-precious stone that has been prized since antiquity for its intense colour

HOMEWORK



- 1. Robert Bruce Foote, who discovered first Palaeolithic tool in India, was a/an?
- (a) Geologist
- (b) Archaeologist
- (c) Both a and b
- (d) Historian
- 2.In Mesolithic context, evidence of animal domestication has been found at?
- (a) Langhnaj
- (b) Birbhanpur
- (c) Adamgarh
- (d) Chopani Mando
- 3. From which one of the following sites bone implements have been found?
- (a) Chopani-Mando
- (b) Mahadaha
- (c) Sarai Nahar Rai
- (d)Both a and b
- 4. Three human skeletons in a single grave were recovered at?
- (a) Sarai Nahar Rai
- (b) Damdama
- (c) Mahadaha
- (d) Langhnaj

5. Which one of the following periods is also known as Chalcolithic Age? (a) Old Stone Age



(b) New Stone Age(c) Copper Age(d) Iron Age

6. The cultural remains from Stone Age to Harappan Civilization have been obtained from which one of the following as (a) Amri

(b) Mehrgarh (c) Kotdiji

(d) Kalibangan

7. Megaliths have been identified as? (a) Caves for hermits

(b) Burial sites

(c) Temple sites

(d) None of the above

8.Ash mound is associated with the Neolithic site at?
(a) Budihal

(b) Sangana Kallu

(c) Koldihwa

(d) Brahmagiri



- 9. The cultivation of cereals first started in?
- (a) Neolithic Age
- (b) Mesolithic Age
- (c) Palaeolithic Age
- (d) Proto-Historic Age
- 10. During the Neolithic Age the earliest evidence of the origin of agriculture has been found at which of the following place in the North-Western region of Indian sub-continent?
- (a) Munidgak
- (b) Mehargarh
- (c) Damb Sadat
- (d) Balakot
- 11.Bhimbetka' is famous for?
- (a) Rock Paintings
- (b) Buddhist Statues
- (c) Minerals
- (d) Origin of Son River
- 12. Who excavated the Harappan site of the Indus valley civilization?
- a. D. R. Sahni
- b. R. D. Banerjee
- c. N. G. Majumdar
- d. Amlanand Ghose