

Name and surname:

Date:

Group:

1.- **Genesis**, omnifilm of The Science Museum of Minnesota (1978)

Earth - bodies - before - **suns** - violent creation - **Universe** - nearly 20 billion **years ago**. [20.000.000.000 years] - burned - great star - **supernova explosion** - begins - **solar system** - dust - **solar nebula** - four-and-a-half billion years [4.500.000.000 years] - **molten Earth crusted** - primeval seas - **life evolved** - titanic forces and movements - we read the codes of **fossils** - **earthquakes** - study of Earth - theory called "**Global Plate Tectonics**" - of extraordinary **journeys** of the **continents** - 200 million years ago when **dinosaurs** - all of the continents were then assembled in a **single land mass** a **super-continent** now called Pangea - 180 million years ago, a great rift has begun to open **between** what will become North America and Africa. The Atlantic **is born** 135 million years ago the first true **birds** appear in the primeval **skies**.

South America fractures from Africa - climates and wather change constantly shaping the evolution of **Life** - India has broken free from Antarctica - to collide with Asia 40 million years ago creating the mighty Himalayas and the Tibetan **plateau** - the **crust** of the Earth to consist of a number of **rigid plates** - **mantle** of the Earth - the movements of the plates are sustained by the continous creation of **new Earth's crust** - the **central rifts** of the **great mid-ocean ridges** - the magma forces its way upward - between the plates - **seafloor** - surface in spectacular undersea lava forms - suddenly **volcanoes are born** - the **birth** of the **island** of Surtsey near Iceland - land of ice and fire of glaciers - geological feature so enormous it can be seen from de **Moon**, the **Great Rift Valley of Africa**. This great crack in the Earth's crust extends for 4.000 miles - the continent fractured some 20 million years ago an escarpment - the Rift Valley - exposed **sediments** of three millions years - clearest record of the **genesis of man** - have discovered the **oldest fossil** - human evolution - life - the movement and **separation of the continents** - to proliferate in a thousand directions - evolution explored - the climates and weather constantly changed - more adaptive life-forms would not have evolved to displace older species - **mammal** might never have succeeded **reptile** - man might never have gained dominion - **upon the Earth**.

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2.- **Genesis**, omnifilm of The Science Museum of Minnesota (1978) - Complete the next sentences:

1) All matter of _____ every particle of our _____ has existed before in other _____ and times distant beyond all our powers to imagine.

2) We were of the primordial matter formed in the violent creation of the _____ nearly 20 billion _____. Our matter burned in the refineries of a great _____ and was flung again into the void in a _____ explosion.

3) Volcanoes discharged the _____ and waters which would form the planet's surface. Continents emerged from primeval _____. Life evolved.

4) From a dozen sciences came the fragments of answers which were to revolutionize the study of Earth. An astonishing theory took shape. It is a theory called "Global _____" but it is nothing less than the rediscovery of the Earth an encompassing theory of Earth's crust. Being continuously created and destroyed of a genesis which has never ended of extraordinary journeys of the _____.

5) The most recent _____ began almost 200 million years ago when _____ were in their ascendancy. All of the continents were then assembled in a single land mass a super-continent now called _____.

6) 180 million years ago, a great rift has begun to open between what will become North America and Africa. The _____ is born 135 million years ago the first true _____ appear in the primeval _____.

7) South America fractures from _____. Great areas of the continents drown and emerge with the drift of the _____. Climates and water change constantly shaping the evolution of _____.

8) India has _____ free from Antarctica and drifts north to collide with Asia 40 million years ago creating the mighty Himalayas and the _____ plateau. Dinosaurs have perished. Mammals multiply. The Atlantic widens as the Pacific dies. The world we know took form. We now know the _____ of the Earth to consist of a number of rigid _____.

9) The _____ of the plates are sustained by the continuous creation of new Earth's crust. This process -one of four major tectonic processes- is called "seafloor spreading"- it occurs within the central _____ of the great mid-ocean ridges which wind for 40.000 miles across the ocean floors.