

· Chlorofluoro - Garbons (CFSS) (0) (02) - Aerosols, Spray s and refugerants · Ozoné (0/2) - Ozone layer of the almosphere (0) 04. (a)i/Volcano-is a rapture on the earth crust That allows molten rock (magma), Volcanic ash and gas to escape from the earth's Interior 11) Non Renewable energy sources are the Sources of energy which can not be hum Into Use again after being Used (1) Eg: Coal , petroleum and Natural gas (b) 1) Merits of Volcanoes (02 marks) (. They add nutrients to the soil of o Contribute to soil formation · Lead Formation of Island and Montains Demerts of Volcanoes. · They pollute environment or they destroy property and vegetation of lead loss of plants and animal lives · Emit toxic gases which can harm living things ii) Hazards of earth quakes (02 marks) · Lead to land slides and avalance · Can Cause Tsunamis

· They lead to gross destruction of Infra structure and property.

· They an tilt the ground and change direction of rivers,

(c) i) Disadvantages of non-sustainable ener gy sources (of mark)

· They lead to pollution of the environment.

They lead to environmental distruction through exavations

They may lead to death of living things around places where such resources are extracted.

· May lead to loss of bio-diversity and imbalance in the Ecosystem

· They result to locking of nutrients and elements Inteir wiste products.

ii) Application of energy generated from Water, (02 marks)

· Production of electricity

· Goling Machines in factories.

· Driving Machines Used in Various Industries.

05.(a) [) Astronomy is the study of the ori gin, Composition and motion of bodies in outer space. (ormerk)

ii) Importance of Astronomy (03 Marks)

· Measurement of time and deve lopment of Glendars.

· Navigation in high seas Uss

Knowledge of Astronomy.

· Space exploration uses the Knowledge of Astronomy.

- (b) i) Galaxy is a grant collection of billions of stars and bodies which revolve are und them while Planet is a large sphe rical object which revolves around a star and which has cleared its neighbourhood by its gnutational force. (o) mark)
 - ii) Characterístics of a Planet (03 marks)

· It must be orbiting a star .

· It is massive enough to assume a sphe rical shape due to its granty.

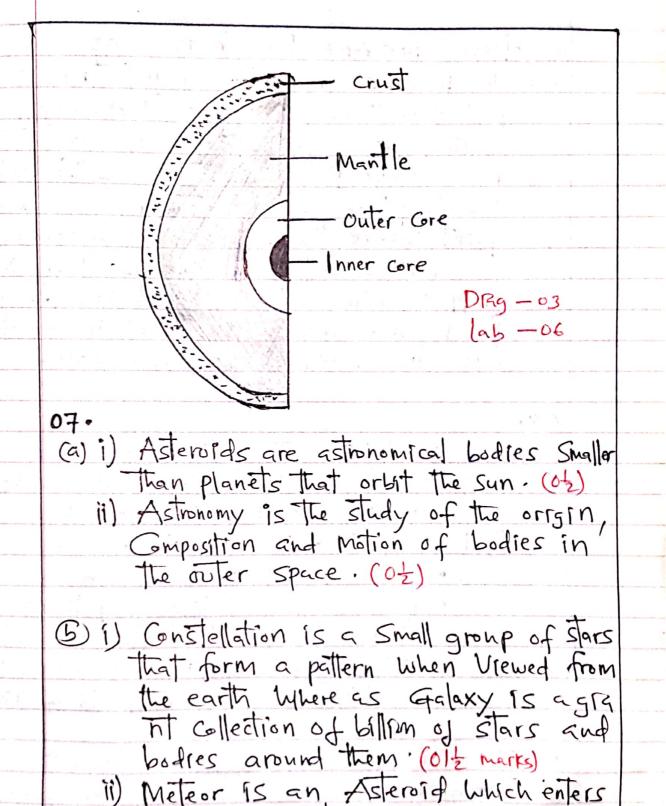
- · It must have cleared its neighbour hood of most objects due to its gravity.
- C) Importance of stratosphere to living things on the Earth's Surface. (01 mark)

"It Contains ozone which absorbs har Mful radiations from outer space.

· It has air which supports life and oth er process on Earth

· Aeroplanes fly in this layer.

06.



The earth's almosphere and burns Co

impletely before reaching the ground where as Meteorities are asterids

that enter the earth's atmosphere a

nd reach the ground before they are

Completely burnt. (0/2 marks)

CHOW TIDES ARE FORMED. (05 Marks) . The moon's gravitational pull tries to Pull everything around It Including The Earth; but since the earth is heavy the moon only pulls the waters of the earth which pulge outwards towards it to a point where the moon's pull balances the farth's pull on the waters. When this happen, water on that side bulges Towards the moon. Since the earth rotates on its axis two tides occur each day.

08.

(a) i) Zudiac light is the faint diffuse and rou (01) night sky extending from near the sun.

ii) Uses of the Earth Satellites. (03 marks)

· The moon leads to ocean tides.

· Man-made satellites help to refle It radio waves Used for Communi cation and so facilitate Communicati on between different parts of the earth.

(b) 1) Jovian planets is the name given to the four biggest planets in the solar system and whose surfaces are not solid but gas. These are Jupiter, saturn, Uramus and Neptune (013)

· Terrestrial planets are planets whose sur faces are solld. They are also alled Inner Planets. They are Merany, Venus,

Farth and Mars.

- tii) Bodies In the Sdar system are kept in their position by a Combination of gra utational force and their velocity.
 - (Ci) Morning star is the name given to the planet VENUS when it appears in the East before sunrise . (012)
 - ii) The 12 months of the year (or marks)

 Through Astronomy man was able to
 determine the begining and end of the
 Month by observing the phases of the
 Moon . It also determined the year
 from the changing position of sun rise.
 - position in the gravitational force which is the attractive force existing between any two objects that have mass.

 (15 marks)

10 .

(a) Layers of Atmosphere (06 marks)

· Troposphere

- · Stratosphere.
- · Mesosphere:
- · Thermosphere
- · Exosphere.
- (b) Troposphere Most weather activity occurs in this layer

- o Stratosphere The layer absorbs Ultraviolet radiations which are harmful to both animal and plant life on earth.
- · Mesosphere Most meteors burn in this layer while entering the ear this Atmosphere.
- · Thermosphere This layer plays an Important role in Communications.
- Exosphere Also Important layer for Comm unications. This is the region where satellites orbit the earth. (05 marks)
- © The ionosphere Is the lower part of the thermosphere with a high Concentration of charged par ticles Called ions and free electrons. (of marks)
- 11 ·(a) Global warming is the Increase of the Avarage temperatures near or on the Surface of the earth as a Result of what is Known as green house effect. (01 mark)
 - (b) · Carbon droxide Clearing and burning Vegetations
 - · Methane Agricultural activities
 - · Dinitrogen exide Combustion of fossil fuels in vehicle and Power stations

- Chlorof luoro carbons Sources of CFCs are Fridges, Air @02 marks Conditions and A erosols.
- @ Increase in the temperature of the oceans

· Rise in Sea levels. @ 1 mark

- · Change in the world's climatic patterns
- · Acrdification of the oceans.
- (a) Implementation of energy Conservation measures to reduce the use of fossilar fuels. This measure includes use of public transport to minimise on the number of lehicles on the road.

· Use of cleaner altenative Source of ene rgy such as solar and wind.

· Check on deforestation and replant more trees to Absorb Groon droxide, (02 marks)

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