



## Part - I

## Instructions :-

- **Answer all questions in accordance with the instructions given for each questions.**
- **Select from the answers given within brackets, the answer that suits the blank in each question from No. 01 to 05 and write it on the dotted line.**

  01. It is believed that the solar system has been formed ..... million years ago, by combining dust particles and gases together. (1300 / 5100 / 4600)
  02. The small planets which have no fixed orbits are know as ..... planets. (sub / main / dwarf)
  03. Rotation from East to west is a special feature of planet ..... (Uranus / Venus / Jupiter)
  04. ..... has an attractive set of rings formed of ice particles of different sizes. (Uranus / Saturn / Neptune)
  05. Temperature decreases gradually by setting ..... for the countries located in the Northern hemisphere during the month of september and for the countries in the southern hemisphere in March (Autumn / Winter / Spring)

- **If the statements from No. 06 to 10 are correct, put a tick (✓), if incorrect put a cross (✗) in the brackets.**

  06. Planets can be seen shining or twinkling in the night sky. ( )
  07. The equatorial diameter of the Earth is shorter than the polar diameter. ( )
  08. The South Asian region spreads from the Equator to  $38^{\circ}$  North latitude in the Northern hemisphere. ( )
  09. When the path of the sun crosses different latitudes at different time periods of the year, seasons occur with different climatic features everywhere. ( )
  10. Water vapour, dust and salt particles are also found in the atmosphere. ( )

- Underline the correct answer for the questions from No.11 to 15.

11. What do the millions of rocky fragments in the solar system consist of ?  
(1) Asteroids (2) Dwarf planets  
(3) Planets (4) Natural satellites.

12. Select the incorrect statement regarding Venus.  
(1) It is the closest planet to the Earth.  
(2) It is called as Evening star.  
(3) It is the third largest planet in the solar system.  
(4) Its surface cannot be seen well.

13. What is the capital city of a South Asian country ?  
(1) Kolkata (2) Karachchi  
(3) Mumbai (4) Islamabad

14. What is the festival based on the sun and moon celebrated by Sinhalese and Hindu devotees ?  
(1) Sinhala Hindu New Year (2) Good Friday  
(3) Easter Sunday (4) Hajji

15. Which of the following statements about the solar system is true ?  
(1) The solar system consists of nine planets, including the Earth we live on.  
(2) The Sun and the other planets which are bound by the gravitational force of the sun belong to the solar system.  
(3) The NASA in U. S. A. revealed information about a planet which is ten times larger than the Earth.  
(4) Galileo Galilei used the telescope to observe the universs for the first time in 1610 A. C.

- **Fill in the blanks with suitable words.**

16. The International Astronomical Institute declared .....  
as a dwarf planet.
17. The local time between two longitudes on Earth varies by .....  
minutes.
18. Atmosphere controls the entry of harmful ultraviolet rays of solar radiation through the .....  
layer located in the upper part of the atmosphere.
19. South Asian region has a ..... climate.
20. The Earth's axis tilts at an angle of ..... degrees to the orbital plane.

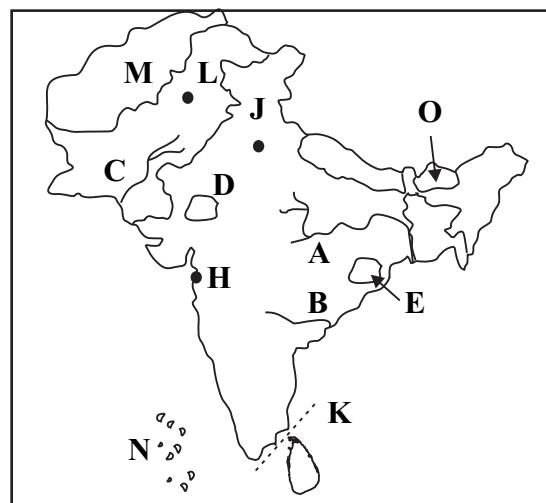
(2 x 20 = 40 marks)

## Instructions :-

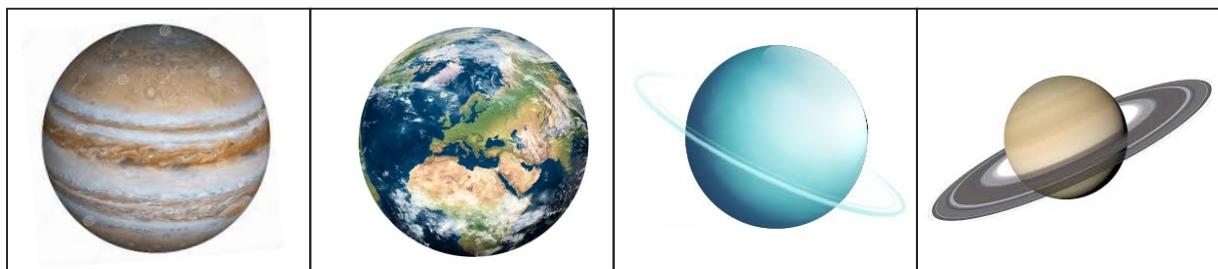
- The first question is compulsory.
- Select five questions including the first questions.

01. (A) Answer the following questions with reference to the map of South Asia given below.

- Which letter represent Indus River ?
- Which letter represents Mumbai ?
- What is the Country denoted by letter O ?
- Write the place where the river shown by letter "A" flows into the sea.
- Name the country in Central Asia indicated by the letter M.
- Write the letter that indicates the country in South Asia that has a large number of islands.
- Which letter represents the Thar Desert ?
- Write the name of the shallow sea area marked with black strips. (08 m)



(B) The following diagrams of some planets belonging to the solar system are shown with the letter A, B, C and D. Identify and name them in order. (04 m)



(C) Name the planets associated with the following information. (04 m)

- The planet with the highest gravitational force.
- The coldest planet.
- The planet which has the highest surface temperature.
- The planet visible in reddish colour in the night sky.

02. (i) The diagram below shows a celestial object belonging to the solar system. Name it. (02 m)



(ii) Write two special characteristics of the celestial object you name above 02 (i). (02 m)

(iii) (a) Name the natural satellite of the Earth.

(b) How many natural satellites are there among the dwarf planets ?

(c) Name two dwarf planets in the solar system and explain two of their special features

(07 m)

03. (i) What are known as outer planets ? (02 m)

(ii) Write two special features of the outer planets. (02 m)

(iii) (a) Name the two largest planets belonging to the outer planets.

(b) Explain the special features of one of the planets you named above. (07 m)

04. (i) What is the rotation of the Earth and how long does it take ? (02 m)

(ii) (a) Write the direction in which the Earth rotates.

(b) Briefly explain two results of the Earth's rotation. (03 m)

(iii) (a) The diagram below shows one of the main seasons on Earth. Name it.

(b) Write the time period when the season you named begins in the countries of the Northern Hemisphere and the countries of the Southern Hemisphere respectively.

(c) Briefly explain two special characteristics of the above named season. (06 m)



05. (i) Write another name for longitude  $0^{\circ}$ . (02 m)

(ii) Draw a model globe to show the following latitudes shown in degrees and write the names they are called. (03 m)

(a) Latitude  $0^{\circ}$

(b) Northern latitude  $23\frac{1}{2}^{\circ}$

(c) Southern latitude  $23\frac{1}{2}^{\circ}$

(iii) Calculate the time at the following longitudes, assuming the time at longitude  $0^{\circ}$  as 8.20 a.m. (06 m)

(a) Western longitude  $45^{\circ}$

(b) Eastern longitude  $85^{\circ}$

06. (i) What is called the atmosphere ? (02 m)

(ii) (a) Name the two gases with the largest volume in the atmosphere.

(b) Explain two human activities that cause changes in the composition of the atmosphere. (03 m)

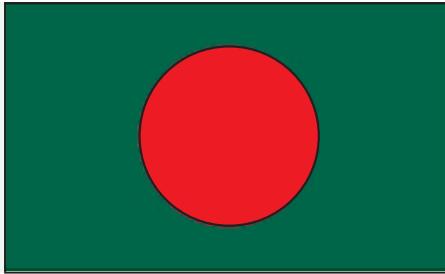
(iii) (a) Write two forms of water on Earth.

(b) What is the water cycle ?

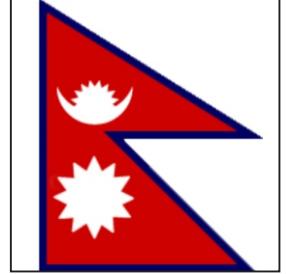
(c) Describe two contributions of water for the existence of the human beings. (06 m)

07. (i) Write the relative location of the South Asian region. (02 m)

(ii) The following diagrams of A, B, C show the national flags of several countries in South Asia.



A



B



C

(a) Which country has the national flag "A".

(b) Write the name of the capital city of the country having flag "B".

(c) Write a main economic activity in the country having flag. "C" (03 m)

(iii) (a) Write two island states belonging to the South Asia.

(b) Describe 3 reasons that have contributed for the South Asian region becoming a unique geographical region. (06 m)

08. (i) Write the two other mountain ranges belonging to the Great Himalayan Range. (02 m)

(ii) Write two land form features distributed in the Himalayan mountain landscape. (03 m)

(iii) (a) Write two tribal groups live in Himalayan landscape.

(b) Write two species of animal rearing in Himalayan landscape.

(c) Explain two special features of the bodies of the inhabitants adapted to mountain landscape. (06 m)

## Answer paper (Part - I)

01. 4600	06. <input checked="" type="checkbox"/>	11. 1	16. Pluto
02. Dwarf	07. <input checked="" type="checkbox"/>	12. 3	17. 4
03. Venus	08. <input checked="" type="checkbox"/>	13. 4	18. Ozone
04. Saturn	09. <input checked="" type="checkbox"/>	14. 1	19. Tropical
05. Autumnn	10. <input checked="" type="checkbox"/>	15. 4	20. $23\frac{1}{2}^{\circ}$

 $(2 \times 20 = 40)$ 

## Part - II

01 (A) (i) C (ii) H (iii) Bhutan (iv) Bay of Bengal  
 (v) Afghanistan (vi) N (vii) D (viii) Palk strait  
 (B) A - Jupiter B - Earth C - Uranus D - Saturn  
 (C) (i) Jupiter (ii) Neptune (iii) Venus (iv) Mars

02. (i) An asteroid (02 m)  
 (ii) Grant marks for facts like formed with hard rocks of different shapes, different size etc. (02m)  
 (iii) (a) Moon (01 m) (b) 08 (01 m)  
 (c) Naming of Pluta, Ceres, Eris, Makemake and Haumea (02m)  
 03 marks for features.

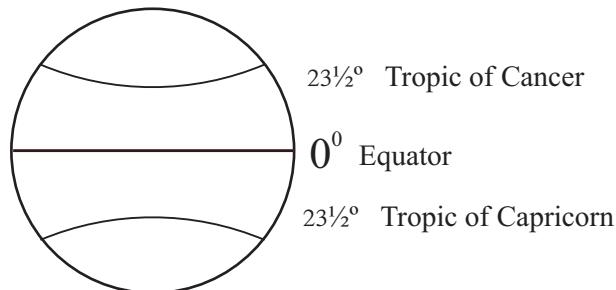
03. (i) The planets located outside the asteroid belt. (02 m)  
 (ii) ★ Gaseous in composition.  
 ★ Larger than the inner planets.  
 ★ Have many natural satellites. etc. (02 m)  
 (iii) (a) Jupiter, Saturn (02 m)  
 (b) Jupiter  
 ★ The largest planet in the solar system.  
 ★ The diameter is 10 times larger than the Earth.  
 ★ Has the highest gravitational force among the planets.  
 ★ Has the largest number of satellites.  
 ★ The regions like black strips as well as bright regions can be seen on the surface.  
Saturn  
 ★ Sixth planet from the sun.  
 ★ Second largest planet  
 ★ 9 times larger than the Earth  
 ★ Has an attractive set of rings around it.  
 ★ Has 62 natural satellites. (05 m)

04. (i) The movement of the Earth around its own axis (01 m)  
 23 hours and 56 minutes. (01 m)  
 (ii) (a) From west to east (01 m)  
 (b) Occurrence of day and night / Changes in the regional time etc. (02 m)  
 (iii) (a) Winter season (01 m)  
 (b) Countries in the Northern Hemisphere - December  
 Countries in the Southern Hemisphere - Jun (02 m)  
 (c) ★ Day time is longer.  
 ★ The leaves completely fall off the trees.  
 ★ Snow falls in many areas.  
 ★ Human activities are limited etc (03 m)

## Answer paper (Part - II)

05. (i) Greenwich Prime Meridian. (02 m)

(ii)



01 mark for the correct diagram  
02 marks for correct naming.

(iii) (a) 5. 20 a. m. (b) 2. 00 p. m.

06. (i) The part that consists of various gases is called the atmosphere. It is held by the Earth due to its gravitational pull. (02 m)

(ii) (a) Nitrogen and Oxygen. (01 m)

- (b) ★ Set fire to forests.
- ★ Destruction of forest
- ★ Irregular disposal of waste
- ★ Burning waste
- ★ Harmful gases released from industries and vehicles. (02 m)

(iii) (a) Solid, liquid, gas (01 m)

(b) Interchange of water cyclically between the land the atmosphere. (01 m)

(c) ★ For domestic purposes

- ★ For various industries
- ★ For all agricultural activities.
- ★ For transportation
- ★ For generation electricity
- ★ For recreational activities etc.

4 marks for explaining

07. (i) To the North - Himalayan range

To the South - Indian Ocean

To the East - Bay of Bengal

To the West - Arabian sea (02 m)

(ii) A- Bangladesh B - Kathmandu in Nepal

C- Maldives - Fishing Industry / Tourism (03 m)

(iii) (a) Andaman and Nicobar islands. (02 m)

(b) The Sundarban marshy land located at the sea level and Mount. Everest, the highest peak in the world, located in the region. Location of extremely cold areas and extremely warm areas. Location of topical rain forests and grass lands etc. (04 m)

08. (i) Kunlunshan and Karakoram (02 m)

(ii) Mountains, spurs, deep gorges, passes, highlands, plateaus, gaps etc. (03 m)

(iii) (a) Bhutia, Khasa, Darad, Lepcha, Sherpas

(d) Cattle and sheeps (01m)

(c) ★ They have flat, broad feet and strong legs.

★ Their arms are strong and muscularly built.

★ Their lungs are adapted to survive in an atmosphere with a lower percentage of oxygen. (04 m)