

**Evaluation Test - 2017**  
**Grade 8**

**Answer Script**

(01)	8	(11)	✓
(02)	4600 million years ago	(12)	x
(03)	stars	(13)	✓
(04)	reflect	(14)	x
(05)	Sun	(15)	✓
(06)	Gravity	(16)	
(07)	Without	(17)	Galileo Galilee
(08)	Life	(18)	510
(09)	25.4	(19)	Equator
(10)	Planets	(20)	Spring

**(2x2=40 marks)**

**Part II**

- (01) (i) centre of the Sun 15 million °C (15000,000 °C)  
Surface 6000 °C
- (ii) Interior planets/ Inner planets  
Exterior planets/ Outer planets
- (iii) Mercury – closest planet  
Neptune – Farthest planet
- (iv) The Sun and the Moon
- (v) Latitudes and longitudes
- (vi) highlands, low lands, plains, slopes, pusses/gaps, plateaus, mountains  
**(Any suitable two features) (2x6=12 marks)**
- (02) (i) Mercury, Venus, Earth, Mars  
**(Any three) (1x3=3 marks)**
- (ii) Closest planet to the Sun  
Smallest planet in the solar system  
High temperature due to the closeness of the sun  
Surface temperature is about 167 °C  
No atmosphere  
High risk of falling asteroids and meteoroids  
No satellites  
**(Any four features) (1x4=4 marks)**
- (iii) (a) Earth – Blue planet

- Mars – Red planet (1x2=2 marks)
- (b) Existence of water in all three states  
 Conductive atmosphere  
 Existence of gravitational force  
 (Any three factors) (1x3=3 marks)
- (03) (i) (a) Carbon dioxide (1 mark)
- (b) Photos, Deimos (1x2=2 marks)
- (ii) It is seen in blue  
 It is four times larger than the Earth  
 Extremely cold due to the long distance from the sun  
 It has 14 natural satellites (1x4=4 marks)
- (iii) Pluto, Eris, Ceres, Make make, Humea (1x5=5 marks)
- (04) (i) Sinhala and Tamil New Year, Thaipongal, Ramalan (1x3=3 marks)
- (ii) Claudius Ptolemy, Nicolas Copernicus, Johannes kepter, Isaac Newton (1x4=4 marks)
- (iii)
  - Worshiping Sun and Moon as goods.
  - Emergence of the Astrology on the basis of the movements of the Sun, Moon and the other planets
  - Holding ritualistic activities known as ‘Shanthi Kurma’
  - Celebrating different festivals based on the space obejects.
  - Organization of traditional farming activities
  - Used for Ayurvedic treatment
 (Any five) (1x5=5 marks)
- (05) (i) (a) USSR (Russia), United States of America (1x2=2 marks)
- (b) Neil Armstrong (1 mark)
- (ii) Equatorial diameter - 12756km  
 Polar diameter - 12714km (2x2=4 marks)
- (iii) Prevalence of favourable atmosphere  
 Existence of water  
 Prevalence of intermediate temperature  
 Existence of gravitation force

- Occurrence of rotation and revolution **(1x5=5 marks)**
- (06) (i) Occurrence of day  
Occurrence of night  
Regional differences of time **(1x3=3 marks)**
- (ii) 1. Spring Equinox  
2. Summer Solstice  
3. Autumn Equinox  
4. Winter Solstice **(1x4=4 marks)**
- (iii) Temperature decreases to its maximum level  
The leaves fall completely  
Longer period of night  
Snow falls  
Human activities are limited to a great extent **(1x5=5 marks)**
- (07) (i) (solid, liquid, gas) or (ice, water, water vapour)  
**(Any method)** **(1x3=3 marks)**
- (ii)
- Main factor for existence of life
  - Retains water vapour
  - Helps in maintaining water cycle
  - Controls the entry of harmful ultraviolet rays of solar radiation through ozone layer
  - Controls falling meteors to the Earth
  - Controls the temperature on the surface of the Earth
- (Any four)** **(1x4=4 marks)**
- (iii)
- Essential for the existence of living beings
  - For domestic purposes (washing, cleaning, bathing, cooking)
  - For agricultural activities
  - For industries
  - For transportation
  - For generating electricity
  - For recreational activities
- (Any five)** **(1x5=5 marks)**

**Only for the Muslim Schools**

(08) (i) Asteroids, Comets, Meteoroids **(1x3=3 marks)**

(ii)

- Closet planet to the Earth
- Planet with highest surface temperature(464 °C)
- Smaller than the Earth in size
- The planet most clearly visible in the night sky
- Carbon dioxide is the prominent gas
- Rotation from East to West
- Surface is covered with the thick layer of cloud, therefore surface cannot be seen
- No satellites

**(Any four)**

**(1x4=4 marks)**

(iii)

- To obtain information about the solar system and the universe
- Helps in exploration
- Supportive for new inventions
- Advantage for finding of new knowledge

(09) (i)

- Second largest planet in the solar system
- Has an attractive set of 'rings' around it
- Nine times larger than the Earth
- 62 natural satellites

**(Any Three)**

**(1x3=3 marks)**

(ii)

- According to movement of the sun the time of prayers for the God is assigned
- According to the movement of the moon the beginning and the end of the Ramalan festival will be declared

**(2x2=4 marks)**

(iii)

- Snow and ice begin to melt
- Tender leaves appear on dormant trees and flowers will start to bloom and bear fruits
- Beautiful environment
- Comfort the human life
- Helpful in human activities

**(Any suitable answer)**

**(1x5=5 marks)**

