

Evaluation Test - 2017
Grade 8

Answer Script

(01)	8	(11)	✓
(02)	4600 million years ago	(12)	×
(03)	stars	(13)	✓
(04)	reflect	(14)	×
(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, passes/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
Conducive 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 Kepler, Isaac Newton (1x4=4 marks)
- (iii)
 - Worshipping Sun and Moon as gods.
 - 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 objects.
 - 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)

