

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)	<ul style="list-style-type: none"> • Worshiping 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)
(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 gravitational 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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)

