Solar Systems and General Geography

- **1.** Which of the following statements is/are correct with regard to lines of latitude?
 - 1. They are concentric circles numbered from 0° to 90° .
 - 2. They are circles on a globe which are parallel to the equator.

Select the correct answer using the code given below:

- A. 1 only B. 2 only
- C. Both 1 and 2 D. Neither 1 nor 2
- **2.** Foucault experiment is proof of which one of the following?
 - A. Revolution of Earth
 - B. Rotation of Earth
 - C. Rotation of Moon
 - D. Revolution of Moon
- **3.** Which one of the following pairs is not correctly matched?

	Month	Position of Sun
А.	June	Midday Sun over-head at
		tropic of Cancer.
В.	December	Midday Sun over-head at
		tropic of Capricorn.
C.	March	Midday Sun over-head on
		Equator
D.	September	Midday Sun over-head on
		Arctic Circle

- 4. Which of the following statements is/are correct with regard to Milky way?
 - 1. It is a spiral galaxy.
 - 2. The solar system resides in one of its spiral arms.

Select the correct answer using the code given below:

A.	1 only	B. 2 on	ly
C.	Both 1 and 2	D. Neitl	ner 1 more

- **5.** Which one of the following is the time required for the earth to return to a given point in its orbit with reference to fixed stars called?
 - A. Lunar yearB. Solar yearC. Tropical yearD. Sidereal year
- **6.** How much of a time period 15° of longitudes account for?

A.	4 Minutes	В.	15	Minutes
C.	30 Minutes	D.	60	Minutes

- 7. The Sun is visible a little before the actual sunrise because of which one of the following?
 - A. Atmospheric reflection
 - B. Atmospheric dispersion
 - C. Atmospheric diffraction
 - D. Atmospheric refraction
- 8. Assertion (A): The tail of comet is always away from the Sun.
 - **Reason (R)** : The tail of comet is made up of gases and small ice particles.

Select the correct answer using the codes given below: *Codes:*

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is not the correct explanation of A
- C. A is true but R is false
- D. A is false but R is true
- 9. Which of the following is called a 'red planet'? A. Earth B. Venus
 - C. Jupiter D. Mars
- **10.** Assertion (A) : Venus is the brightest object in the sky after the Sun.
 - **Reason (R)** : Venus is the second planet from the Sun in hour solar system.

Codes:

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is not the correct explanation of A
- C. A is true but R is False
- D. A is false but R is true
- 11. If there are four places on the same meridian 500km apart and the local time at one place is 12.00 noon. What will be the time at the three other places?
 - A. 12.00 noon
 - B. 1.00 pm
 - C. 2.00 pm
 - D. Different time at different places
- **12.** Which one of the following figures represents the age of the earth?
 - A. 4.6 million years B. 4.6 billion years
 - C. 13.7 billion years D. 13.7 trillion years

- 13. The moon is showing its same face to the earth because:
 - A. It is not rotating about its own axis
 - B. Its rotation and revolution are opposite
 - C. Its periods of rotation and revolution are the same
 - D. Its rotation is faster than its revolution
- **14.** The difference in the duration of day and night increases as one moves from:
 - A. west ot east
 - B. east and west of the prime meridian
 - C. poles to equator
 - D. equator to poles
- **15.** Which of the following planets does not belong to the group of terrestrial planets?
 - A. Mercury B. Venus
 - C. Uranus D. Earth
- 16. The pulsating universe theory says:
 - A. The universe illuminates and darkness alternately between periods of billions of years
 - B. The universe enlarges and shrinks alternately
 - C. The universe expands and contracts alternately between periods of tens of billions of years
 - D. All of the above
- 17. Assertion (A): Jupiter is known as a cold planet.
 Reason (R) : Jupiter has temperature of -130°C.
 A. Both A and R are true and R doest not explains A
 - B. Both A and R are true but R is the correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true
- **18.** Which is the theory that explains the origin of universe from a priomordial explosion which broke the condensed matter and scattered its fragments into space at enormous velocities?
 - A. Big Bang theory
 - B. Infinite time theory
 - C. Steady state theory
 - D. Oscillating universe theory
- 19. The study of universe on grandscale is called:

A.	cosmology	В.	astronomy
C.	exbiology	D.	astrology

- **20.** Which of the following planets has been given the name of cruel planet in the Indian astrology?
 - A. MercuryB. SaturnC. NeptuneD. Jupiter
- **21.** The sum total of potentially knowable objects is called:
 - A. Universe B. Galaxy
 - C. Earth D. Milkyway

- 22. The earth is in....position from the sun in the solar system.
 - A. 3rd B. 2nd
 - C. 4th D. 5th
- **23.** Which of the following statements correctly explains Andromeda?
 - A. It is the upper surface of the sun which emits white light
 - B. It is the satellite revolving round the planets of the sun
 - C. It is the nearest galaxy to our earth
 - D. It is the gravitational force by which the sun attracts the planets towards its centre
- 24. Which of the following planets takes 164 years in making one revolution around the sun?
 - A. Neptune B. Mars
 - C. Saturn D. Uranus
- **25.** The sun completes one revolution around the centre of the milky way in....million years.
 - A. 250 B. 84 C. 110 D. 320
- **26.** The term territorial water means:
 - A. the water found within the country in form of rivers and lakes
 - B. the water secured from other countries
 - C. the water which is supplied to other countries
 - D. water of the sea located close to the cost of a country
- **27.** More than half of the world's population lives in latitudes.
 - A. $0^{\circ} 20^{\circ}N$ B. $0^{\circ} 20^{\circ}S$
 - C. $20^{\circ}N 40^{\circ}N$ D. $40^{\circ} 60^{\circ}N$
- 28. Which of the following planets have highest density?A. Earth B. Mars
 - C. Mercury D. Venus
- **29.** Which of the following pair of factor is responsible for a lag of 52 minutes in two direct tides on the earth's ocean surface?
 - 1. Earth's rotation2. Earth's revolution3. Moon's rotation4. Moon's revolutionCode:4. And 2A. 1 and 2B. 2 and 3C. 3 and 4D. 1 and 4
- **30.** Which of the following statement regarding earth is correct?
 - 1. The earth is satellite in the solar system.
 - 2. The earth is an asteroid in the solar system.
 - 3. The earth is the 3rd largest body in the solar system.
 - 4. The earth is a planet in the process of being a satellite.

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	A. 1 and 2 are correctB. 2 and 3 are correctC. 3 and 4 are correctD. None are correct	40
31.	An ancient star that has collapsed matter so dense that it creates gravitational force so powerful that even light also does not escape. It is called: A. Black hole B. QSO C. Neutron Star D. All the above	
32.	If sun dies it will be transformed into a:A. QusarB. White dwarfC. Black dwarfD. All of the above	
33.	The sun contains overof the total mass of the solar	
	system: A. 2% B. 82.5% C. 98% D. 99.8%	41
34.	Assertion (A): The earth is also known as watery	
	Reason (R) : The earth is the only planet of the solar system which contains water in abundance.	42
	A. Both A and R are true and R is the correct explanation of A	42
	B. Both A and R are true but R is not correct explanation of AC. A is true but R is falseD. A is false but R is true	43
35.	The most important constituent of the sun's mass is:1. Silicon2. Iron3. Hydrogen4. HeliumA. 1 and 2B. 2 and 3C. 3 and 4D. 1, 2, 3 and 4	44
36.	All the planets revolve around the sun in an elliptical	45
	orbit in thedirection.A. variableB. clockwiseC. anticlockwiseD. same	46
37.	The distance between planets from the sun can be described by: A Newton's Law B Bode's Law	
	C. Hawkin's Law D. None of the above	47
38.	Each planet tends to be roughly twice as far from the sun as its next sunward neighbour. This is called: A. Bgnolds's Law B. Bode's Law C. Playfair's Law D. All of the above	48
39.	When there is winter solstice (Dec 22), which one of the following angle would be formed by the incidence of the sunrays over the tropic of cancer?	
	A. $23\frac{1}{2}^{\circ}$ B. 43°	49
	C. 47° D. $66\frac{1}{2}^{\circ}$	

40.	Ma	tch the followi	ng:		
	<i>(a)</i>	Mercury	1.	No At	mosphere
	(b)	Mars	2.	River	Channel
	(c)	Jupiter	3.	Planet	which could have been
	(*)			star	
	(d)	Saturn	4.	Rinnli	ng bands
	(a)	1		-upp III	
	Co	des:			(b
		$(a) \qquad (b)$		(<i>c</i>)	(d)
	A.	3 4		1	2
	В.	1 4		4	2
	С.	1 2		3	4
	D.	2 3		1	4
41.	Day	y and night on t	the s	surface	of the earth are caused
	by:				
	A.	inclination of	the	earth a	ixis.
	В.	rotation of the	ear	th	
	C.	precession of	the	equino	xes
	D.	all of the above	ve.		
42.	On	the sun rises	in 1	the we	st and sets in the east.
	A.	Venus		В.	Mercury
	C.	Jupiter		D.	Neptune
42	n	1			1 (
43.	Sea	Isonal changes of	on tr	ie eartr	surface are caused by:
	A. D	Earth s revolu	.1011		
	B. Earth rotation				
	U. D	Earth roughtic	and	inclina nd incl	ation of its axis
	D.	Earth Tevolutio	n a	na me	initation of its axis
44.	Wh	en the earth is	at it	s maxi	mum distance from the
	sun	it is called:			
	A.	sidereal		В.	equinox
	C.	aphelion		D.	perihelion
45.	Ear	th can be the b	est	describ	bed as a:
	A.	Geoid		B.	Oblate sphere
	C.	Cirde		D.	Sphere
16	Th	a planat which t	aka	tha la	ngest time to complete
40.	one	revolution aro	und	the cu	in is:
	Δ	Nentune	unu	R R	Saturn
	C	Uranus		D.	Juniter
	с. —			D.	
47.	The	e direction of re	otati	on of	the earth on its axis is:
	A.	East to west		B.	North to south
	C.	West to east		D.	South to north
48.	The	e theories, whic	h su	iggests	that planetary systems
	for	m as part of the	evol	lution l	nistory of some stars are
	gro	uped into:			
	A.	Natural theorie	s	В.	Catastrophic theories
	C.	Cataclysmic th	eori	es D.	Meteoritic theories.
49.	Ma	tch the followi	ng.		
• • •			.0.		

- (a) Meteorite theory(b) Supernova Theory(c) 2. Hoyle
- 3. Ottosmidt (c) Tidal Theory

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Codes:				
	(<i>a</i>)	<i>(b)</i>	<i>(c)</i>	
А.	3	1	2	
В.	3	2	1	
C.	1	3	2	
D.	2	3	2	

- **50.** Match the following theories of the origin of the earth and their proponents:
 - (a) Nebular Hypothesis 1. Kant
 - (b) Proto Planet(c) Planetesimal Theory(c) Antipological Chamberlin(c) Planetesimal Theory(c) Planetesimal Theory<
 - (d) Binary Star theory 4. Russel and Littleton

Codes:

	<i>(a)</i>	<i>(b)</i>	(<i>c</i>)	<i>(d)</i>
A.	1	2	3	4
B.	4	3	2	1
C.	3	2	1	4
D.	4	1	2	3

51. Sideral means:

- A. Pertaining or referring to the stars
- B. Pertaining or referring to the sun
- C. Pertaining or referring to the moon
- D. Pertaining or referring to cosmic bodies
- **52.** In Solar System which two planets are on either side of earth?
 - A. Mars and Venus
 - B. Saturn and Jupiter
 - C. Mars and Saturn
 - D. None of these
- **53.** Which planet if it was to brought on the ocean will float?

A.	Jupiter	В.	Uranus
C.	Mars	D.	Saturn

54. Which planet has the largest equatorial radius?

- A. Saturn
- B. Jupiter
- C. Mars
- D. Earth

55. Latitude of a place is determined by:

- A. Gnomon
- B. clinometer
- C. establishing the meridian of a place
- D. dividing the circumference by angular distance
- **56.** The location of place A is at 60°E longitude and 30°S latitude while the location of B is 60°E longitude and 45°N latitude. Time at B will be:
 - A. half-an-hour behind A
 - B. half-an-hour ahead of A
 - C. half-an-hour ahead or behind that of A
 - D. the same as that of A

- 57. Latitudes refers to:
 - A. angular distance of a point on the earth's surface along a Meridian N or S of equator
 - B. angular distance of a Meridian in relation to sun's rays
 - C. angular distance of any elliptical plane in relation to the tilt of the earth
 - D. angular distance of a plane in-relation to angle of sun's rays
- 58. The meaning of longitude is:
 - A. the angular distance of a line around central Meridian
 - B. the angular distance of a point on the earth's surface east or west of central Meridian
 - C. the linear distance from the central part of the earth measured in angles
 - D. the curvilinear distance measured from any point in relation to a central point
- **59.** The interval of 1° latitude measures:
 - A. 211 kilometres
 B. 111 km

 C. 91 km
 D. 241 km
- **60.** There is a continuous day of six months and night of six months beyond.

A.	$66\frac{1}{2}$ ° Lat.	B.	90° Lat.
C.	75° Lat	D.	45° Lat.

61. The linear distance of a degree of latitude on an average is:

A.	79 miles	В.	69 miles
C.	70.6 miles	D.	72 miles

- **62.** Longitudes unlike latitudes are not used for measuring distance because:
 - A. longitudes are vertical
 - B. all the longitudes coverage at poles
 - C. The length of degree of longitude outside the tropics vary widely
 - D. Longitudes are Horizontal
- **63.** Every.....degree we go eastward local time is.....by one hour.
 - A. 15° , advanced B. 15° , retarted
 - C. 10° , advanced D. 10° , retarded
- 64. Which of the following statement is true:
 - 1. The earth rotates 1° in 4 minutes
 - 2. Places east of Greenwich see the sun earlier
 - 3. Longitudes keep changing with international agreements
 - 4. At 75° latitude the longitudes are 18 miles
 - A. 1, 2 and 3 B. 1, 2 and 4
 - C. 1, 3 and 4 D. 2, 3 and 4

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 65. A place located 74°W of A. 5 hrs. 42 minutes ad B. 5 hrs. 42 minutes be C. 4 hrs 56 minutes bel D. 4 hrs 56 minutes ad below of the below of the	Greenwich will have time: vanced hind nind vanced	 74. The lengthiest sh A. Vostok C. Spitsbergen 75. The asteroidal be A. Farth and Ma
66. In which country, peopl watches maximum times tA. RussiaC. USA	e will have to adjust their o conform to the time zones. B. Canada D. Chile	 C. Mercury and 76. When the moon i be in: A. Perigee
67. The international date li ahead of GMT.A. 90°W, 12.C. 180°W, 24	ine which is at ishrs B. 90°E, 12. D. 180°E, 12	C. Penumbra77. The ocean of transformed to the formation of the formation
 68. The earth revolves arou orbit at a speed ofper A. 16.5 km/s B. 22.5 km/s C. 18.5 miles or 29.8 km D. 29.5 km/s 	nd the sun in an elliptical r second. m/s	 78. Which of the foll 1. We see only 2. The moon tak revolution are its axis 3. The gravitation
 69. A leap year consists of: A. 364 days B. 365 days C. 366 days D. 365 days and an ext 	ra night	 3. The gravitation less than that 4. The day and the moon. A. 1 and 2 are c B. 1, 2 and 4 are
70. The earth takes aboutA. 23 hoursC. 24 hours 6 minutes	to complete one rotation. B. 24 hours D. 23 hours 54 minutes	C. 2, 3 and 4 ard D. All are correc 79. Which planet ext
 71. Match the following: (a) Summer solstice (b) Winter solstice (c) Vernal equinox (d) Atumnal equinox 	 June 21 December 22 March 21 September 23 	1.03 day) of the A. Mercury C. Mars 80. A peninsula is:
Codes: (a) (b) (c) A. 4 3 3 3 B. 1 2 2 2 C. 3 4 3 4 D. 4 3 3 3	$ \begin{array}{ccc} (c) & (d) \\ 2 & 1 \\ 3 & 4 \\ 2 & 1 \\ 1 & 2 \end{array} $	 A. a piece of la sides. B. a narrow piec C. a piece of land D. a triangular p 81. Which of the followed a here?
72. Match the following:	1	A. A gulf occupie the mouth of
 Tropic of cancer Tropic of Capricorn Prime Meridian Codes: A. 1a, 2b, 3c 	 (a) 23 - o[°]N (b) 23 °S (c) 0° Longitude B. 1c, 2b, 3a 	 B. A gulf is of h C. A gulf is a highland D. Bay and gulf into the land b a bay
C. 1c, 2a, 3b73. The first person to say the A. ArchimedesC. Galileo	D. 1a, 2b, 3bhat the earth is sphere was:B. CopernicusD. Eratosthenes	82. A narrow creek o masses is called:A. PeninsulaC. Strait

74.	The	e lengthiest shadow wi	ll t	e found in:
	A.	Vostok	В.	Archorage
	C.	Spitsbergen	D.	Teradel feugo
75.	The	e asteroidal belt lies b	etw	een:
	A.	Earth and Mars	В.	Jupiter and Mars
	C.	Mercury and Uranus	D.	Neptune and Venus
76.	Wh	en the moon is nearest	to	the earth, it is called to
	be	in:		,
	A.	Perigee	B.	Apogee
	C.	Penumbra	D.	Umbra
77.	The	e ocean of tranquillity	is	located on:
	A.	Mercury	В.	Earth
	C.	Moon	D.	Jupiter
78.	Wh	ich of the following s	tatn	nent is/are correct?
	1.	We see only one face	of	the moon.
	2.	The moon takes the sa	me	time in completing one
		revolution around the	ear	th and one rotation on
		its axis		
	3.	The gravitational forc	e o	n the moon is 6 times
	4	The day and night te	mne	ll vraturas vary widely on
	4.	the moon	mpe	fatures vary wheely on
	A.	1 and 2 are correct		
	B.	1, 2 and 4 are correct		
	C.	2, 3 and 4 are correct		
	D.	All are correct		
79.	Wh	ich planet experiences	s a	day-almost-(1.00 and
	1.0	3 day) of the same du	rati	on as that of the earth:
	A.	Mercury	В.	Saturn
	C.	Mars	D.	Uranus
80.	A	peninsula is:		
	A.	a piece of land surro	oun	ded by water on three
	п	sides.	л	
	В. С	a narrow piece of land	u. ad a	nd surrounded by water
	D.	a triangular piece of 1	su a Iand	surrounded by water
01	<u>р</u> . 11/1.			
51.	wn	1ch of the following is	a a	ifference between a guif
		A gulf occupies the mo	uth	of a river a bay occupies
	11.	the mouth of many ri	vers	s a niver a bay securites
	B.	A gulf is of large size	wł	nile bay is of small size
	C.	A gulf is a lowland	reg	gion while a bay is a
		highland		
	D.	Bay and gulf are both	n pa	rt of sea that extended
		into the land but a gulf	f ha	s a narrow entrance that
		a bay		
82.	A r	arrow creek of land th	at c	onnects two larger land
	mas	sses is called:		

eninsula B. Isthmus

it D. Cape

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The name given to a widened river mouth found at the point of a river enters the sea?A. EstuaryB. DeltaC. GulfD. Bay	Codes: (a) (b) (c) A. 3 1 2 B. 1 2 3
 is a triangular landmass that forms at its mouth when a river splits into several branches just before entering the sea. A. Gulf B. Delta C. Isthmus D. Strait 	C. 3 2 1 D. 2 3 1 93. Match the following: (a) Isohypes 1. Equal flowing date (b) Isophene 2. Equal Seismic activity (c) Isospiemel 2. Equal elemetical shows and
The name "cross roads of the pacific" is given to:A. BarmudaB. FijiC. HawaiiD. Elice	$\begin{array}{c} (c) \text{ isoseismal} & 5. \text{ Equal elevation above sea} \\ \hline \\ Codes: \\ (a) & (b) & (c) \\ A & 3 & 1 & 2 \end{array}$
Rapidly rotating stars emitting intense radio waves are called:A. Neutron starsB. PulsarsC. QuasuarsD. All of the above	A. 5 1 2 B. 1 2 3 C. 2 3 1 D. 3 2 1 94 The points in the beauers that is directly above the
 Cygnus X – 1 is a: A. Binary star of a black hole. B. Black hole C. X-RAY source D. Supernova. 	 94. The points in the heavens that is directly above the observer is: A. Apogee B. Perigee C. Pericline D. Zenith 95. An imaginary belt of 12 constellations or group of star is called:
Which of the following statements can be taken as evidence to show that the Earth is spherical?A. The rotation of the earth from east to westB. Earth's various parts have night or dayC. The horizon of the earth is seen to be curved when see from satelliteD. The revolution of the earth around the sun	 A. Pulsar B. Zodiac C. Stellar group D. Zodiacal light 96. When the sun is shinning vertically over the tropic of cancer. A. Nights are equal to 24 hours at the South Pole. B. Days and nights are of 16 hours duration at North Pole
Solar eclipse takes place when:A. The earth comes between the sun and the moon.B. The moon passes between the sun and the earthC. The sun comes between the earth and the moon.	C. Days and nights are equal in northern and southern Hemisphere.D. Nights are longer than days in the northern Hemisphere.
D.Planets of the solar system lie on the same plane.Which latitude will have longest nights in the southern Hemisphere at the summer solstice? A. $66^{\circ}S$ B. $45^{\circ}S$ C. $66^{\circ}N$ D. $23\frac{1}{2}^{\circ}N$	 97. Which of the following is not connected with proof of the earth shape? 1. Circumnavigation 2. Rotation 3. The shadow of the earth on moon during eclips 4. Satellite Photographs A. 1 and 2 B. 2 and 3
The reclaimed portions of the sea in Netherlands are called: A. Ria B. Polders	 C. 1, 2 and 3 D. All of them 98. Lunar eclipse means: A. The average angle made by a line drawn from the
 C. Young pits D. Sounds Match the following: (a) Isoplesths (b) Isonomal (c) Isochrones D. Sounds D. Sounds D. Sounds D. Sounds Similar value of particular, phenomenon 2. Continuous value on maps. 3. Equal travel time from a common centre 	 moon to the earth B. The earth comes between the sun and the moon and the centres of all the three come on the same straight line C. Direction or path of the moon D. The moon comes between the sun and the earth and it causes shadows of the moon to fall on the earth
	The name given to a widened river mouth found at the point of a river enters the sea?A. EstuaryB. DeltaC. GulfD. Bayis a triangular landmass that forms at its mouth when a river splits into several branches just before entering the sea.A. GulfB. DeltaC. IsthmusD. StraitThe name "cross roads of the pacific" is given to: A. BarmudaB. FijiC. HawaiiD. EliceRapidly rotating stars emitting intense radio waves are called: A. Neutron starsB. PulsarsC. QuasuarsD. All of the aboveCygnus X - 1 is a: A. Binary star of a black hole. B. Black hole C. X-RAY source D. Supernova.Which of the following statements can be taken as evidence to show that the Earth is spherical? A. The rotation of the earth from east to west B. Earth's various parts have night or day C. The horizon of the earth around the sunSolar eclipse takes place when: A. The earth comes between the sun and the emon. B. The aron passes between the sun and the earth C. The sun comes between the sun and the earth C. The sun comes between the sun and the earth C. The sun comes between the sun and the earth C. The sun comes between the same plane.Which latitude will have longest nights in the southern Hemisphere at the summer solstice? A. 66°SB. 45°SC. 66°ND. $23\frac{1}{2}$ °NThe reclaimed portions of the sea in Netherlands are called: A. RiaB. Polders S. SoundsMatch the following: (a) Isoplesths1. Similar value of particular, phenomenon

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99. Insular means an area: A. surrounded by land on all sides B. surrounded by water on all sides C. slightly elevated from the adjoining region D. drained by rivers from all sides 100. Doldrums are: A. a low pressure belt around the equator where the winds are very light and sea very calm B. areas of calm seas C. trade wind belts D. areas where the sea is very rough around equator 101. Horse latitudes are: A. tones where fodder for horses are grown B. latitudinal zones where under some climatic conditions horses originated C. subtropical high pressure belts D. latitudinal zones intermediate between equator and tropics 102. The region lying between tropics of cancer and capricorn is called: A. Horse Latitutdes B. Subtropical zone C. Torrid zone D. All of the above 103. An oasis is: A. the name of an environmental organisation B. farmlands of Australia C. another name of depression in desert D. a small area of greenery and water in desert **104.** Which explorer's expedition conclusively proved that the earth is spherical in shape? A. Christopher Columbus B. Vasco da Gama C. Captain Tasman D. Megellan 105. The height of land is expressed in: A. feet or metres above sea level B. metres C. spot heights D. kilometres 106. The period of cycle of solar activity (appearance and disappearance) of sun spots is about.... years. A. 5 B. 11 C. 8 D. 17

- **107.** The three main is land groups in the pacific from east to west are:
 - A. Melanesia, Polynesia and Micronesia
 - B. Micronesia, Polynesia and Melanesia
 - C. Melanesia, Micronesia and Polynesia
 - D. Polynesia, Micronesia and Melanesia
- **108.** The name for "Lands end" that is the tip of the last land that projects into the sea is:
 - A. Embayment B. Head land
 - C. Cape D. Peninsula

- **109.** Had there been equator in place of tropic of cancer in India, the change caused in the climate would be:
 - A. Low temperature and high rainfall
 - B. High temperature and high rainfall
 - C. High temperature and low rainfall
 - D. Low temperature and low rainfall
- 110. Which of the following is the largest star?
 - A. Sun B. Silion Aurigae
 - C. Trumpler D. Betelgeuse
- **111.** The tropics extend from north to south for.....degrees.A. 11.75B. 23.5B. 11.75B. 23.5
 - C. 47 D. 30
- 112. The basic difference between a lake and a tank is:A. lake and tank are both land enclosed water bodies but tank is man made
 - B. a tank is big while lake is small
 - C. a lake is big while tank is small
 - D. a lake can be in oceans as well as land, tank is only on land
- 113. The southern limit of India (mainland) is:
 - A. $6^{\circ}4'$ N latitude B. $7^{\circ}4'$ N latitude
 - C. $8^{\circ}4'$ N latitude D None of these
- **114.** The shortest distance between two places on the globe lies along.
 - A. $45^{\circ}N$ latitude B. $45^{\circ}S$ latitude
 - C. The prime meridian D. The equator
- **115.** Consider the following diagram and answer the question.

The figure indicates:

A. Lunar eclipse

C. Full Moon

- B. Solar eclipse D. Tidal bore
- **116.** Which of the following options correctly represents the numbers 1, 2, 3, and 4 respectively in the following figure of solstices and equinoxes.



- A. March 21, December 22, September 23, June 21
- B. December 22, September 23, June, 21, March 21
- C. September 23, June 21, March 21, December 22
- D. June 21, March 21, December 22, September 23
- 117. The latitude of a place situated on the equator is:

A.	$23\frac{1}{2}$ °	В.	0°
C.	$66\frac{1}{2}$ °	D.	$33\frac{1}{2}$

- **118.** Assertion (A) : Days and nights all over the globe except the equator and the poles are of varying lengths at different times of the year.
 - **Reason (R)** : The earth's axis is oblique and it points in the same direction throughout the year.
 - A. Both A and R are true and R is the correct explanation of A
 - B. Both A and R are true but R is not the correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true
- **119.** The earth rotates.....in 24 hours.

A.	180°	В.	90°
C.	60°	D.	360°

- **120.** The Indian standard time is ahead of G.M.T. by:A. 1 hourB. 3 hours
 - C. $4\frac{1}{2}$ hours D. $5\frac{1}{2}$ hours
- **121.** When and where was 180th meridian designated as international Date Line by international meridian conference.
 - A. 1884 Washington D.C.
 - B. 1804 Tokyo
 - C. 1894 London.
 - D. 1824 Dumraon
- **122.** Assertion (A) : The method of determining latitude of a place with the help of pole star cannot be employed in the southern hemisphere.
 - **Reason** (**R**) : There is no star equivalent to pole star in the southern hemisphere.
 - A. Both A and R are true and R is the the correct explanation of A
 - B. Both A and R are true but R is not correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true

- **123.** Halo' around the sun or moon are produced due to: A. Refraction of light by ice crystals
 - B. Refraction of light by stone
 - C. Reflection of Light by stone
 - D. Reflection of Light by Ice crystals
- **124.** Assertion (A) : It is inferred that life was originated in the ocean.
 - **Reason (R)** : Simpler and lower animals are aquatic and the cells and body fluids of all animals contain salts.
 - A. Both A and R are true and R is the correct explanation of A
 - B. Both A and R are true but R is not the correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true
- **125.** The primitive atmosphere of the earth was devoid of free oxygen but rich in:
 - A. Nitrogen and ozone.
 - B. Carbon dioxide and nitrogen
 - C. Amonia, methane and hydrogen
 - D. Methane and carbon dioxide.
- **126.** Assertion (A) : Elements like hydrogen, oxygen, carbon and nitrogen could not exist in free state on primitive earth
 - **Reason (R)** : The temperature of primitive earth was estimated to be 5000–6000°C.
 - A. Both A and R are true and R is the correct explanation of A
 - B. Both A and R are true but R is not the correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true
- **127.** Assertion (A) : The organic compounds that arose on primitive earth were not subjected to degradation.
 - **Reason (R)** : The Atmosphere of primitive earth was without free-oxygen (non oxygenic)
 - A. Both A and R are true and R is the correct explanation of A
 - B. Both A and R are true but R is not the correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true
- **128.** If stars are seen to rise perpendicular to the horizon by an observer, he is located on:
 - A. North Pole
 - B. South Pole
 - C. Tropic of Cancer
 - D. Equator

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- 129. Consider the following astral bodies:
 - 1. Sirus 2. Venus
 - 3. Mars

Correct sequences in decreasing order of their brightness is:

A.	2, 3 and 1	B. 1, 2 and 3
C.	3. 2 and 1	D. 2. 1 and 3

- **130.** An aeroplane takes off from 30°N latitude 50° East long and lands at the opposite end of the earth where does it land?
 - A. 30° North latitude 50° West longitude
 - B. 30° South latitude 50° West longitude
 - C. 50° North latitude 30° West longitude
 - D. 30° South latitude 130° West longitude
- **131.** The length of its day and the tilt of its axis are almost identical to those of the earth. This is true.
 - A. Neptune B. Saturn
 - C. Mars D. None of these
- 132. The shortest air route from perth to London is:
 - A. Perth Bombay Rome London
 - B. Perth Aden Paris London
 - C. Perth Ankara Paris London
 - D. Perth Mombasa Rome London
- **133.** When it is noon along 82°30'E longitude along what degree of longitude it will be 6.30 am?
 - A. along $165^{\circ}E$ B. along $67^{\circ}30'W$
 - C. $0^{\circ}E$ or W D. None of these
- **134.** The time taken by the sun to revolve around the centre of our galaxy is:
 - A. 500 million years B. 250 million years
 - C. 100 million years D. 25 million years

135. The colour of a star is an indication of its:

- A. luminosity B. distance from the sun
- C. temperature D. distance from the earth
- 136. Comet shoemaker-levy, hit the planet.
 - A. Jupiter B. Mars
 - C. Saturn D. None of these
- 137. A meteor is:
 - A. a rapidly moving star
 - B. a piece of matter which has entered the earth's atmosphere from outer space
 - C. a slowly moving star
 - D. a piece of matter which has entered the earth's atmosphere from inner space
- **138.** The standard time of the following countries is ahead or behind Greenwich mean time depending on whether they are east and west of the longitude passing through Greenwich:
 - 1. Cuba

Iraq
 Japan
 Costarica

Which one of the following sequential order gives the correct arrangement of the countries according to their standard time from a head to behind G.M.T.?

- A. 5, 3, 2, 1, 4 B. 2, 4, 1, 3, 5
- C. 4, 1, 3, 2, 5 D. 3, 5, 4, 1.2
- **139.** Consider the following statements. A person in a spaceship located halfway between the earth and the sun will notice that the:
 - 1. Sky is jet black.
 - 2. Stars do not twinkle.
 - 3. Temperature outside the spaceship is much higher than that on the surface of the earth.
 - Of these statements
 - A. 3 alone is correct B. 1 and 2 are correct
 - C. 1 and 3 are correct D. 1, 2 and 3 are correct
- 140. Diamond ring is a phenomenon observed:
 - A. at the start of a total solar eclipse.
 - B. at the end of a total solar eclipse.
 - C. only in the central regions of the totality trail.
 - D. only along the peripheral regions of the totality trail.
- 141. Which one of the following longitudes along with the prime meridian forms a great circle on the globe?
 A. 180°
 B. 90°E
 C. 0°
 D. 90°W
- **142.** Captain of a ship moving westward records the local time of the 10.00 hrs. Monday at 90°W. If the speed of the ship is the same as the speed of the rotation of the earth, which of the following local time and day would be found by the captain at international date line.
 - A.
 04.00 Monday
 B.
 10.00 Monday

 C.
 10.00 Tuesday
 D.
 16.00 Tuesday
- **143.** Consider the following statements and select the correct answer from the codes given below:
 - 1. The northern end of the earth's axis is called north pole
 - 2. 45 parallel is half of the length of the equator
 - 3. There is parallelism of the earth axis
 - 4. The earth's speed of revolution is faster in aphelion position
 - A. 1 and 3 B. 1 and 2
 - C. 3 and 4 D. 1 and 2
- 144. Which one of the following may have alien life because of a very conductive environment to life?
 - A. Europa—The Jupiter's Moon
 - B. Moon-The earth's Moon
 - C. Jupiter
 - D. Mars

2. Greece

A. 17°80' E

C. 172°30' W

B. 7°30' W

D. 90° W

- 145. On which planet was the space craft "Magellan" sent? 155. Match List I with List II and select the correct answer A. Saturn B. Mars by using the codes given below the lists: C. Venus D. Jupiter List I List II (Special (Name of **146.** What is Hale-Bopp? **Character**) of the planet) A. A toy (a) Smallest planet of the 1. Mercury B. Cartoon character solar system C. Comet (b) Largest planet of the 2. Venus D. International company solar system 147. Assertion (A) : The atmosphere receives most of the (c) Planet second from the 3. Jupiter heat only in directly from the sun and sun in the solar system directly from the earth's surface. (d) Planet nearest to the Sun. 4. Murcury **Reason** (**R**) : The conversion from short-wave 5. Saturn terrestrial energy takes place at the Codes: earth's surface. A. Both A and R are true and R is the correct (a)*(b)* (c)(d)explanation of A A. 2 3 5 1 B. Both A and R are true but R is not the correct 5 2 Β. 3 1 explanation of A C. 4 1 2 3 C. A is true but R is false D. 4 3 2 1 D. A is false but R is true **156.** One astronomical unit is the average distance between: **148.** The shortest distance betweem two places on the globe A. Earth and the Sun is along: B. Earth and the Moon A. 45°N latitude B. 45°S latitude C. Jupiter and the Sun C. Prime meridian D. International dateline D. Mars and the Sun. 149. Which is a celestial phenomenon? 157. Consider the following statements regarding asteroids: A. Bone hole B. Black hole 1. Asteroids are rocky debris of varying sites orbiting C. Rainbow D. Comet the Sun 2. Most of the asteroids are small but some have **150.** At the time of the summer solstice in the northern diameter as large as 1000 km hemisphere the length of the day will be twelve hours 3. The orbit of steroids lies between the orbits of at the: Jupiter and Saturn A. Tropic of cancer B. Tropic of capricorn C. Arctic circle D. Equator Of these statements: A. 1, 2 and 3 are correct 151. The planet nearest to the earth is: B. 2 and 3 are correct A. Jupiter B. Mars C. Mercury D. Venus C. 1 and 2 are correct D. 1 and 3 are correct 152. At the winter solstice the noon altitude of the sun at the tropic of cancer is: 158. About 50% of the world population is concentrated A. 23.5° B. 43.0° between the latitudes of C. 47.0° D. 66.5° A. 20° S and 40° S B. 40° N and 60° N C. 5°N and 20°N D. 20°N and 40°N 153. The limit beyond which suffer stars internal collapse is called: 159. Which one of the following is the most important A. Chandrashekhar Limit reason for the establishment of the Vikram Sarabhai B. Raman Effect Space Centre, at Thumba? C. Aurora Borealis A. The sea is near to the place in the east west and D. Quasan Zone south direction B. It is a place near to a city in India, which is 154. When there is noon at I.S.T. Meridian people on nearest to the geographic equator. another place of the earth are taking their 6 O' clock C. It is situated on the geomagnetic equator. morning tea. The longitude of place is?
 - D. Outer space near Thumba exhibits queer atmospheric phenomena.

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160. Along which one of the following meridians did India experience the first-light of the sunrise of the new millennium:
A 2°30' W
B 82°30' E

	2 30 11	р.	01 30	-
C.	92°30' W	D.	92°30'	W

- **161.** What is the difference between Indian Standard time and Greenwich standard time?
 - A. 4 hours and 30 minutes
 - B. 5 hours
 - C. + 5 hours and 30 minutes
 - D. + 6 hours and 30 minutes
- **162.** Indian standard time is the local time of $82\frac{1}{2}$ °E which passes through.

A.	Allahabad	В.	Delhi
C.	Guntur	D.	Patna

163. Which one of the following places have their standard time that are the same as G.M.T.?1 Accra 2 Dublin

1.	Accia	4.	Duomi
3.	Madrid	4.	Bisbon

Choose the correct answer from the codes given below:

A.	1, 2 and 3	B. 1, 3 and 4
C.	1, 2 and 4	D. 2, 3 and 4

164. Which one of the following is not as astronomical object?

A.	Pulsar	В.	Brittle Star
C.	Blackhole	D.	Quasar

- 165. The North Pole is always in the light:
 - A. from September 23 to March 21
 - B. from March 21 to September 23C. from June 21 to December 22
 - C. from June 21 to Decem
 - D. None of these
- **166.** The solar eclipse achieves totality only in limited geographical regions because:
 - A. the size of the shadow of the moon on the earth is small as compared to the cross section of the earth.
 - B. the earth is not smooth flat surface, but has elevations and depressions
 - C. the trajectories of the earth around the sun and the moon around the earth are not perfect circles.
 - D. sun rays can reach most of the Peripheral regions of shadow of the moon due to atmospheric refraction
- **167.** The axis of rotation of the earth is tilted by 23.5° to the plane of revolution around the Sun. The latitude of Mumbai is less than 23.5° whereas the latitude of Delhi is more than 23.5° . Which one of the following statements in this regard is correct.

A. The Sun can come overhead at both these places

- B. The Sun will never come over head at either of these places
- C. At Mumbai the Sun can come overhead, but it will never do so at Delhi
- D. At Delhi the sun can come overhead but it will never do so at Mumbai
- **168.** Indian Standard Meridian passes through the states of U.P., Chhattisgarh:
 - A. A.P. and Karnataka.
 - B. A.P. and Tamil Nadu
 - C. Karnataka and Tamil Nadu
 - D. Odisha and A.P.
- **169.** Tropic of cancer passes through the states of Gujarat, M.P., Chhattisgarh:
 - A. Jharkhand, West Bengal, Tripura and Mizoram
 - B. Bihar, Tamil Nadu, Sikkim, A.P.
 - C. A.P., Karnataka, Kerala, Bihar
 - D. W.B., Bihar, Jharkhand, Assam
- **170.** How many times the international date line deviates from 180° longitude:
 - A. 4 B. 6
 - C. 8 D. 10
- **171.** Which of the following is the characteristic property of magnetic north pole?
 - A. static B. shifting fast
 - C. shifting slowly D. moving at intervals
- **172.** The longitude determining Indian Standard time passes through
 - A. RanchiB. DelhiC. ChennaiD. Kolkata
- **173.** Which of the following planets has the maximum number of satellites?
 - A. Venus B. Jupiter
 - C. Saturn D. Uranus
- 174. Sun rises at Kolkata $(80^{\circ}35')$ at 6.15 am. What will be the time of sunrise at Mumbai $(72^{\circ}50')$:
 - A. 7.00 am B. 6.46 am
 - C. 6.30 am D. 6.25 am
- **175.** Which of the following statements is not true about "Doldrum"?
 - A. It is found across all longitudes
 - B. It is located at the equator
 - C. It is a zone of feeble westerly winds
 - D. It is a high pressure belt
- **176.** Match List I with List II and select the correct answer using the codes given below the lists:

List I	List II		
(Satellite)	(Related Planet)		
(a) Ariel	1. Saturn		
(b) Ganymede	2. Jupiter		

Phobos		3.	Mars
Titan		4.	Uranus
des:			
<i>(a)</i>	(<i>b</i>)	<i>(c)</i>	(d)
1	2	3	4
2	3	4	1
3	1	2	4
4	2	3	1
	Phobos Titan (<i>a</i>) 1 2 3 4	Phobos Titan des: (a) (b) 1 2 2 3 3 1 4 2	Phobos3.Titan4.des: (a) (b) (c) 123234312423

- **177.** Study the following statements regarding 'summer solstice' and select the correct answer from the code given below:
 - 1. The sun is on the cancer.
 - 2. The sun is on the capricorn.
 - 3. The day is longest and night is shortest in the northern hemisphere.
 - 4. The day is longest and night is shortest in the southern hemisphere.

Codes:

- A. 1 and 2 are correct B. 2 and 4 are correct
- C. 1 and 3 are correct D. 2 and 3 are correct
- **178.** A planet's farthest point in its orbit from the sun is known as:
 - A. ApogeeB. PerigeeC. AphelionD. Perihelion
- **179.** Assertion (A) : Directions on the earth are entirely arbitrary.
 - Reason (R) : A spherical surface has no edges, beginning or end.
 - A. Both A and R are true and R is the correct explanation of A
 - B. Both A and R are true but R is not the correct explanation of A
 - C. A is true but R is false
 - D. A is false but R is true

180. Assertion (A) : All meridians are great circles.

- **Reason (R)** : The great circles divide the earth sphere into two equal parts.
- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is not the correct explanation of A
- C. A is true but R is false
- D. A is false but R is true
- **181.** Comets are luminous celestial bodies moving round the:

A.	Jupiter	В.	Earth
C.	Sun	D.	Moon

182. Doldrums are located between:

A.	10°N to 15°N	В.	$5^{\circ}S$ to $10^{\circ}S$
C.	10°S to 15°S	D.	5°N to 5°S

183.	• The latitude of a place expresses its angular position relative to the place of									
	A. axis of the earth B. equator									
	C. north pole D. south pole									
184.	Coriolis Force is occasioned by: A. Pressure differences B. Temperature differences C. Relief obstructions D. Rotation of the earth									
185.	The planets between Sun and asteroids are:									
	 A. Mercury, Earth, Jupiter and Saturn B. Mercury, Venus, Jupiter and Saturn C. Mercury, Venus, Earth, and Mars D. Mercury, Earth, Venus and Jupiter 									
186.	"Datum" Line denotes.									
	A. The boundary between India and China. B. An imaginary line which passes through zero.									
	degree meridian.									
	C. An imaginary horizontal line from where heights									
	D. The line across which dates change.									
187.	Consider:									
	 187. Consider: Assertion (A) : There is no atmosphere on moon. Reason (R) : Only one part of the moon can be soon from the parth. 									
	Reason (R) : Only one part of the moon can be seen from the earth.									
	Reason (R) : Only one part of the moon can be seen from the earth.Select the correct answer from the code given below.A. Both A and R are true and R is the correct explanation of A									
	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct 									
	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false 									
	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true 									
188.	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true 									
188.	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true Consider: Assertion (A) : Hot deserts are situated on the western margins of the continents. 									
188.	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true Consider: Assertion (A) : Hot deserts are situated on the western margins of the continents. Reason (R) : Rain bearing winds in horse latitudes change their direction according to season. 									
188.	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true Consider: Assertion (A) : Hot deserts are situated on the western margins of the continents. Reason (R) : Rain bearing winds in horse latitudes change their direction according to season. Select the correct answer from the code given below: A. Both A and R are true and R is the correct explanation of A 									
188.	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true Consider: Assertion (A) : Hot deserts are situated on the western margins of the continents. Reason (R) : Rain bearing winds in horse latitudes change their direction according to season. Select the correct answer from the code given below: A. Both A and R are true but R is not the correct explanation of A 									
188.	 Reason (R) : Only one part of the moon can be seen from the earth. Select the correct answer from the code given below. A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true Consider: Assertion (A) : Hot deserts are situated on the western margins of the continents. Reason (R) : Rain bearing winds in horse latitudes change their direction according to season. Select the correct answer from the code given below: A. Both A and R are true but R is not the correct explanation of A B. Both A and R are true but R is not the correct explanation of A B. Both A and R are true but R is not the correct explanation of A B. Both A and R are true but R is not the correct explanation of A B. Both A and R are true but R is not the correct explanation of A B. Both A and R are true but R is not the correct explanation of A B. Both A and R are true but R is not the correct explanation of A 									

- night is equal. It falls on:
 - A. 10th March and 13th September
 - B. 21st March and 23rd September
 - C. 25th March and 31st September
 - D. None of these

190.	Ma	tch the fo	ollowings:				0	2.	A
	List I				List II				A
	(a) Doldrums		S	1.	5°N to 5°S	1	95. X	Nhi	ich
	(b)	Horse La	atitudes	2.	$30^{\circ}N$ to $30^{\circ}S$	5	v	vith	n f
	(<i>c</i>)	Torrid Z	one	3.	40° N and 50°	°S	Δ	\ 101	Ri
	(d)	Roaring	Forties	4.	231/2° Nand 23	31⁄2° S	F	1. }	Ne
	Co	des:					(2.	Pla
		<i>(a)</i>	<i>(b)</i>	(<i>c</i>)	(d)		Γ).	Ti
	A.	1	2	3	4		06 7	Tha	<i>t</i>
	B.	1	2	4	3	L	190. I	to o	נע ידי
	C.	2	1	3	4		1		txi دxi
	D.	2	1	4	3		F C	1. 1	Sa Sa
191.	The twe brig	e stars wh enty magn ghtness ar	ose bright itudes or n e called:	tness su nore an	ddenly increas d then fades int	es ten to o normal	1 97. N A	Vhi	ich Bi
	Α.	Explosio	n stars	В.	Supernova		C	/•	IVI
	C.	Nova		D.	Both (B) and	(C) 1	198. V	Nhi	ich
192.	Wh con A. C.	iich of th nplete on Mercury Mars	e followii e revoluti	ng plan on arou B. D.	ets takes least ind the sun? Earth Venus	time to	n a A C	nos inci A. 2.	t b len Ve Sa
102	Th		ish share		- doomoo of 1	1	199. \	Vha	at
193.	are A. C.	called: Double S	Stars s Stars	B. D.	Binary Stars Cephied Stars	mnosity	1 2 3 4	•	Sp El Irr Cr
194	Ase	sertion (A):The e	quatori	al section of	the sun	A	١.	1
1770	Rea	ason (R)	takes 2 to mal : All par the saunature.	25 days ce one rts of th me spe	and the polar rotation about e sun do not ro ed because of	30 days its axis. tate with gaseous	C 200. C A	C. Gala A. B.	3 axi co he co

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is not the correct explanation of A

		C. D.	A is true but R is fals A is false but R is tru	se 1e	
	195.	Wh wit	ich one of the follow h the monistic concep	ving t?	theories is associated
		A.	Binary Hypothesis		
		B.	Nebular Hypothesis		
		C.	Planetesimal Hypothe	sis	
		D.	Tidal Hypothesis		
	196.	The its	e two planets in the so axis from east to west	lar are	system which rotate on
		A.	Saturn, Mercury	В.	Mercury, Jupiter
		C.	Saturn, Mars	D.	Venus, Uranus
	197.	Wh A. C	ich star has the largest Binary Stars Multiple Stars	pero B. D	centage in the universe? Single Stars Cenhied stars
	198.	Wh mo anc	ich of the following pla st beautiful goddess by ient times?	anet the	s was worshipped as the people of Greece in the
		A.	Venus	B.	Mars
		C.	Saturn	D.	Jupiter
	199.	Wh 1. 2. 3. 4.	at form does the milk Spiral Elliptical Irregular Crab	y w	ay Galaxy has?
		A.	1 and 2	B.	2 and 3
		C.	3 and 4	D.	2 and 4
	200.	Gal A.	axies are the best desc congregation of dust held together by force	crib part	ed as: icles and stars that are
1			neta together by 1010	01	gravity

- B. congregation of constellations rotating around the nucleus
- C. congregation of primordial dust particles
- D. congregation of stars that are held by molecular attraction of the particles

ANSWERS

1	2	3	4	5	6	7	8	9	10
C	B	D	C	D	D	D	C	D	B
11	12	13	14	15	16	17	18	19	20
A	B	C	D	C	C	В	A	D	B
21	22	23	24	25	26	27	28	29	30
A	A	C	A	A	D	C	A	D	D
31	32	33	34	35	36	37	38	39	40
A	C	D	A	C	C	В	B	C	C
41	42	43	44	45	46	47	48	49	50
В	A	D	С	A	A	С	A	В	A

30 Geo	ography/Ge	ology							
51	52	53	54	55	56	57	58	59	60
А	А	D	В	А	D	А	В	В	А
61	62	63	64	65	66	67	68	69	70
В	С	А	В	С	А	D	С	С	В
71	72	73	74	75	76	77	78	79	80
В	А	В	А	В	В	С	D	С	А
81	82	83	84	85	86	87	88	89	90
D	В	В	В	С	В	С	С	В	А
91	92	93	94	95	96	97	98	99	100
В	В	А	D	В	А	D	В	В	А
101	102	103	104	105	106	107	108	109	110
С	С	D	D	А	А	D	С	С	В
111	112	113	114	115	116	117	118	119	120
С	А	С	С	А	А	В	А	D	D
121	122	123	124	125	126	127	128	129	130
А	А	А	А	С	А	А	D	В	А
131	132	133	134	135	136	137	138	139	140
С	С	С	В	С	А	В	А	С	D
141	142	143	144	145	146	147	148	149	150
A	A	A	D	В	C	A	C	В	D
151 D	152	153	154 D	155 D	156	157 C	158 D	159 C	160 D
1(1	A	A 1(2	14	167	A	167	1.0	1(0	150
161 C	162 A	103 A	104 B	105 B	100 A	167 C	108 D	169 A	170 A
171	172	172	174	175	17(177	170	170	100
1/1 C	172 C	175 B	1/4 B	175 D	170 D	1// C	178 C	179 A	180 A
191	187	183	18/	185	186	187	188	180	100
101 C	162 D	105 C	104 D	105 C	C	но <i>г</i> В	100 B	109 B	B
101	- 192	193		195	196	 197	198	-	200
В	D	A	В	A	В	B	C	A	A

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