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Class:6 (Social Science) Reeta Dubey Date: 29/06/2020 Geography Chapter 3 Motion of the Earth

1. Answer the following questions briefly.

- (a) What is the angle of inclination of the earth's axis with its orbital plane?
- (b) Define rotation and revolution.
- (c) What is a leap year?
- (d) Differentiate between the summer solstice and winter solstice.
- (e) What is an equinox?
- (f) Why does the Southern Hemisphere experience winter and summer solstice in different times than that of the Northern Hemisphere?
- (g) Why do the poles experience about six months day and six months night?

Answers: (a) The angle of inclination of the earth's axis with its orbital plane is 66'/a.

- (b) The movement of the earth on its axis is known as rotation.
- 'Revolution. The movement of the earth around the sun in a fixed path or orbit is known as revolution.
- (c) The year in which Februaiy is of 29 days instead of 28 days is called a leap year. Thus a leap year is of 366 days instead of 365 days.
- (d) Difference between summer solstice and winter solstice

Summer solstice	Winter solstice
 In the Northern Hemisphere the longest day and the shortest night occur on 21st June. At this time in the Southern Hemisphere it occurs the shortest day and the longest night. This position of the earth is called summer solstice. 	shortest day and the longest night occur

- (e) On 21st March and September 23rd, direct rays of the sun fall on the equator. At this position, neither of the poles is tilted towards the sun. Therefore, the entire earth experiences equal days and equal nights. This phenomenon is called an equinox.
- (f) Since it is winter in the Southern Hemisphere when it is summer in the Northern Hemisphere, therefore the position of the earth 'which is called the Winter Solstice in one Hemisphere is the Summer Solstice in the other, and

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vice-versa.

(g) The axis of the earth is tilted, due to which the sun continuously either shines or cannot be seen for a long time here. Although the earth rotates and day changes into night and night into day at other places, but the poles remain under the same stage for a much longer time due to the tilt.

2. Tick the correct answer.

(a) The movement of the earth arou (i) Rotation (ii) Revolution (iii) Inc (b) Direct rays of the sun fall on th (i) 21 March (ii) 21 June (iii) 22 De (c) Christmas is celebrated in summ (i) Japan (ii)India (iii)Australia (d) The cycle of the seasons is caus (i) Rotation (ii)Revolution (iii)Gr	elination. e equator on ecember. mer in
Answers: (a)—(ii), (b)—(i), (c)—	(iii), (d)—(ii).
3. Fill in the blanks. (a) A leap year has	in
Answer: (a)366, (b) rotation, (c) el	liptical, (d) cancer, (e) winter.
I.Multiple Choice Questions Choose the correct option to comp. (i) The axis of the earth is a/an	
	(b) straight line
(c) curved line	
(ii) The earth receives light from the	` '
(a) Moon	(b) Stars
(c) Meteors	(d) Sun.
	complete one rotation around its axis
18	1
(a) 24 hours	(b) 12 hours
(c) 36 hours	(d) 18 hours.

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(iv) The earth completes one revolt(a) 366 days(c) 365 1/4 days(v) It is spring in the Northern Hen Hemisphere on	(b) 370 days(d) 366 1/4 days.nisphere and autumn in the Southern	
(a) 23rd September		
(c) 22nd December	(d) 21st June.	
Answer: (i)—(a), (ii)—(d), (iii)—(a), (iv)—(c), (v)—(b). II. Fill in the Blanks (i) Days and nights occur due to of the earth. (ii) Only half of the earth gets light from the sun at a time due to its shape. (iii) The period of rotation is known as the		
(iv) The sun's rays fall vertically at the Tropic of on 22nd December.		
(v) On it is autumn season in the Northern Hemisphere and spring in the Southern Hemisphere. Answer: (i) rotation (ii) spherical		
(iii) earth day (iv) Capricorn	(v) 23rd September.	
III. True/False Stale whether these sentences are t (i) The axis of the earth makes an a (ii) Every five year, February is of	angle of 23V& with its orbital plane.	

- (iii) Season changes due to the change in the position of the earth around the sun.
- (iv) When there is summer in the Northern Hemisphere, it is spring in the Southern Hemisphere.
- (v) Life is not possible in extreme conditions.

Answer: (i) False, (ii) False, (iii) True, (iv) False, (v) True.

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IV. Matching Skill

Match the items in column A correctly with those given in column B.

Column A

- (1) Summer solstice
- (ii) Winter solstice
- (iii) Equinox
- (iv) Orbit
- (v) Rotation

Ans. (i)—(e), (ii)—(d), (iii)—(b), (iv)—(c), (v)—(a).

Column B

- (a) Daily motion of the earth
- (b) 23rd September
- (c) Fixed path
- (d) 22nd December
- (e) 21st June