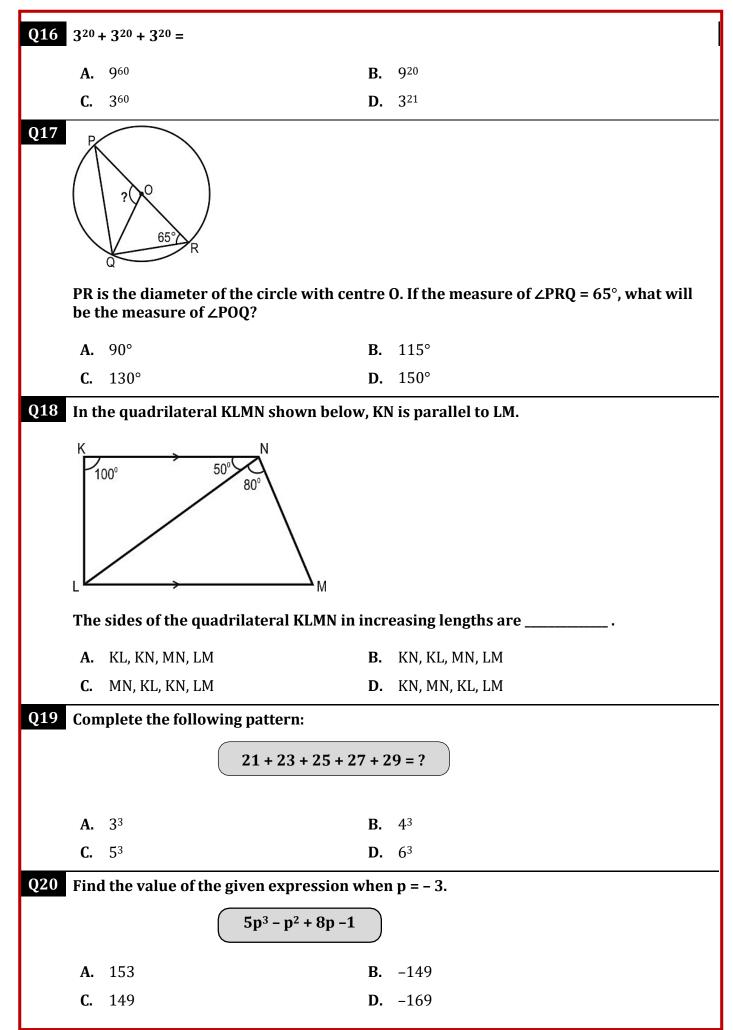


Q5 Find	l the coefficient of x ² in the given ex	pres	ession.
	$2x^2 - 3xy + 5$		
 A.	2	B.	. 3
C.			. 5
Q6 Abo	by is twice as old as his sister. If his s	siste	ter is <i>x</i> years old what is the age of the boy?
•	24.400.00	D	2
	2x years x/2 years		. 2+x years . x-2 years
	he figure given, find the percentage		
	ne figure given, mit the percentage		
	25%	D	F00/
	25% 60%		. 50% . 35%
	ich is smallest rational number?	<i>D</i> .	
	-9/5	B.	4/5
	-5/9		9/8
Q9 For	which of these values of x and y is 2	x - 3	3y = 3x - 2y?
А.	x = 1, y = -1	B.	x = 2, y = 0
C.	x = 0, y = 1	D.	x = 1, y = 1
Q10 0 is	the centre of the circle shown below	<i>N</i> .	
	\frown		
	0 150 ⁹ R		
A. C.	[?] P 30° 120°	B. D.	

1 Charisma has simplified an expr	Charisma has simplified an expression as shown below.							
$\frac{6\sqrt{2} - 3\sqrt{8} + 5\sqrt{8} - 4\sqrt{2}}{2}$								
2								
$= \frac{2\sqrt{2} + 2\sqrt{8}}{2}$	= $\frac{2\sqrt{2} + 2\sqrt{8}}{2}$							
$= \frac{2(\sqrt{2} + \sqrt{8})}{2}$	$= \frac{2(\sqrt{2} + \sqrt{8})}{2} $ (Step 2)							
$= \sqrt{2} + \sqrt{8}$								
$= \sqrt{10}$								
In which step has she made an e								
A. Step 1, because $-3\sqrt{8} + 5\sqrt{8} \neq 3$ B. Step 2, because $2\sqrt{2} + 2\sqrt{8} \neq 2$								
B. Step 2, because $2\sqrt{2} + 2\sqrt{8} \neq 2$ C. Step 4, because $\sqrt{2} + \sqrt{8} \neq \sqrt{10}$								
D. There is no error.	•							
	would the volumes of cone and cylinder be DIFFERENT							
An which of the following cases w	source ine volumes of cone and cynnucl be bit i ERENT							
C. Heights are the same and the	C. Heights are the same and the radius of the cone is 3 times the radius of the cylinder.D. Height of the cone is 1/3 the height of the cylinder and radius of the cone is 3 times the							
3 What number should come in th	he box to make the following statement true?							
$3^4 + 3^2 = 9 \times$								
A. 4	B. 9							
C. 10	D. 81							
4 In which of the following equa increases?	In which of the following equations will the value of y decrease as the value of x increases?							
A. $y = x/3$	B. $y = x - 1$							
C. $y = 5 - 2x$	D. $y = 2x - 15$							
Ekta has to run an average of 12 kms per day every week to prepare herself for the marathon race she is participating in. She ran a total of 36 kms over the first 4 days, and could not run on the 5th day.								
What is the average number of kms she needs to run on the remaining days of the week to achieve the weekly average target of 12 kms per day?								
A. 12 kms	B. 16 kms							
C. 24 kms	D. 48 kms							



ENGLISH						
Read the poem given below and answer the questions that follow.						
I Asked The Little Boy Who Cannot See						
I asked the little boy who cannot see, "And what is colour like?" "Why green," said he, "Is like the rustle when the wind blows through The forest; running water, that is blue; And red is like a trumpet sound; and pink Is like the smell of roses; and I think That purple must be like a thunderstorm; And yellow is like something soft and warm;						
And white is a pleasant stillness when you lie						
Q1 What does the poem tell us about the little boy?						
 A. He is an artist. B. He is colour blind. C. He is very imaginative. 						
C. He is very imaginative.D. He is pretending to be blind.						
02 How many colours have been mentioned in the poem?						
100 many colours have been mentioned in the poem.						
A. five						
B. three						
C. seven						
D. eight						
Q3 Which of the following has been used <u>the most</u> to describe the colours?						
A. music						
B. nature						
C. dream						
D. happiness						
Q4 Which word in the poem means 'the sound made by the movement of leaves, paper, etc.'?						
A block						
A. blow						
B. rustleC. dream						
D. trumpet						
Q5 Which colour is described 'like the smell of roses'?						
which colour is acseribed like the shield of 105e5 :						
A. red B. pink						
C. yellow D. purple						

"Read the given passage and answer the questions below"

Discus Throw

Discus Throw is one of the oldest individual sports. It was a popular event in the Olympic Games of the ancient Greeks.



Athletes, in ancient times, threw a discus made of stone or metal, while the discus used today is a round plate of wood or other material that is tapered at the edge and has a smooth metal rim. Men's discus is 21.9 cm in diameter, 4.4 cm thick at the centre and weighs 2 kilograms. Women's discus is 18 cm in diameter, 3.7 cm thick at the centre and weighs 1 kilogram.

Athletes throw the discus from a circle of diameter 2.5 metres. They hold the discus in the palm of one hand, the ends of the fingers curling around the rim, then whirl in a complete turn to gather speed and power, and hurl the discus at the end of another half turn. The fingertips spin the discus as it leaves the athlete's hand and it flies through the air in a fairly flat position.

Judges measure the throw from the inside edge of the circle to the nearest point at which the discus struck the ground. If the thrower steps on the circle or touches the ground outside the circle before the discus strikes the ground, the throw is not counted.

Q6	The	ancient discus was made of					
	_		_				
	A.	stone only	В.	stone or wood			
	C.	metal or wood	D.	metal or stone			
Q7	The	athlete takes a complete turn in ord	ler t	0			
	A.	focus on the direction towards which t	he d	liscus has to be thrown			
	В.	gain momentum to throw the discus as	s far	as possible			
	C.	coordinate the legs, body and arms, wl	nile t	throwing the discus			
	D.	learn to use only one leg when throwin	ng th	e discus			
Q8	Acce	ording to the passage, which of these	e sta	tements is true?			
	A.	Athletes throw the discus from a raise	d sp	ot.			
	В.	The discus has a smooth metallic surface.					
	C.	The present day discus is made up of wood alone.					
	D.	Women's discus is fairly thinner than a	nen	's discus.			
Q9	The	word "tapered" in the passage mean	ıs tł	ne same as "".			
	A.	faded	B.	pointed			
	C.	narrowed	D.	Weakened			

Q10 Complete the sentence correctly based on the information given in the passage.

If the thrower steps on the circle, ______.

- A. his throw is disallowed
- **B.** he is booked for foul play
- **C.** he is disqualified from the competition
- **D.** his next throw is not considered as a penalty

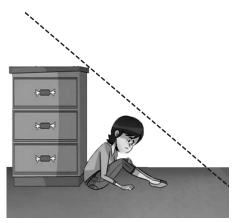
Read the given poster and answer the questions.

Stay Safe During an Earthquake

Don't panic, keep calm



Get next to a large, bulky object. Curl up in a fetal position. Find a triangle of life



Prepare in Advance Make a survival kit

- ✓ Water
- ✓ Non-perishable food
- ✓ Torch
- ✓ Whistle
- ✓ Extra batteries
- ✓ First aid kit
- ✓ Medications
- ✓ Multi-purpose tool
- \checkmark Sanitation and personal hygiene items

Stop, drop, cover and hold on



Have a plan

Talk about earthquakes with your family. Make an EMERGENCY PLAN FOR what to do in case of an earthquake. Discussing ahead of time helps reduce fear, particularly for younger children.





An Earthquake Story The ground shook violently, sending tremors through the building. Priya froze, unsure of what to do. Then she remembered the school drill about the "triangle of life" and quickly dropped to the floor beside her bed. She curled up into a tight ball, protecting her head with

her arms. The shaking continued for what seemed like an eternity, but Priya stayed put, her heart pounding in her chest. Finally, the tremors subsided. Priya cautiously crawled out from under her bed, relieved to find her family safe. She had learned an important lesson that day – being prepared can save lives. The triangle of life, a simple technique of finding shelter next to sturdy objects

during an earthquake. had protected her.

Q11 What did Priya do when she felt the earthquake?

- **A.** Ran outside
- **B.** Hid under a table
- **C.** Dropped to the floor beside her bed
- **D.** Screamed for help

Q12 Why did Priya feel relieved after the earthquake was over?

- **A.** She had successfully practised the "triangle of life" technique.
- **B.** She was happy the earthquake was over.
- **C.** She found her family safe and unharmed.
- **D.** She was excited to tell her friends about her experience.

Q13 Why does the poster suggest that you include a torch and extra batteries in your survival kit?

- A. Because earthquakes usually happen at night
- B. Because earthquakes often cut off the supply of electricity
- C. Because you can sell these items to your neighbours after an earthquake
- **D.** Because you can play with the torch if you are bored

Q14 Why is it important to have a family discussion about earthquakes before they happen, according to the poster?

- A. To learn interesting facts about earthquakes
- B. To practice different survival techniques
- **C.** To reduce fear and prepare everyone for what to do
- **D.** To educate people in how to prevent earthquakes

Q15 How is the earthquake story intended to increase the effectiveness of the poster?

- A. By providing a relatable story about using the techniques mentioned in the pamphlet
- **B.** By explaining some of the technical language used in the pamphlet
- C. By adding new information that was left out of the pamphlet
- **D.** By suggesting that earthquakes are not as dangerous as many people think they are

Read the given passage and answer the questions.

I love getting lost in the world of books. Oh, I mean the public library in my town. As you enter, you see tall shelves full of books. Quite overwhelming, I would say. But then, you'll find people who can help you out.

My librarian can locate any book I need for my school project and suggest good recommendations as well. He also organises fun events like book clubs and storytelling sessions for children. Those are quite popular for sure! The librarian also keeps things in order and makes sure the books are returned to the right place.

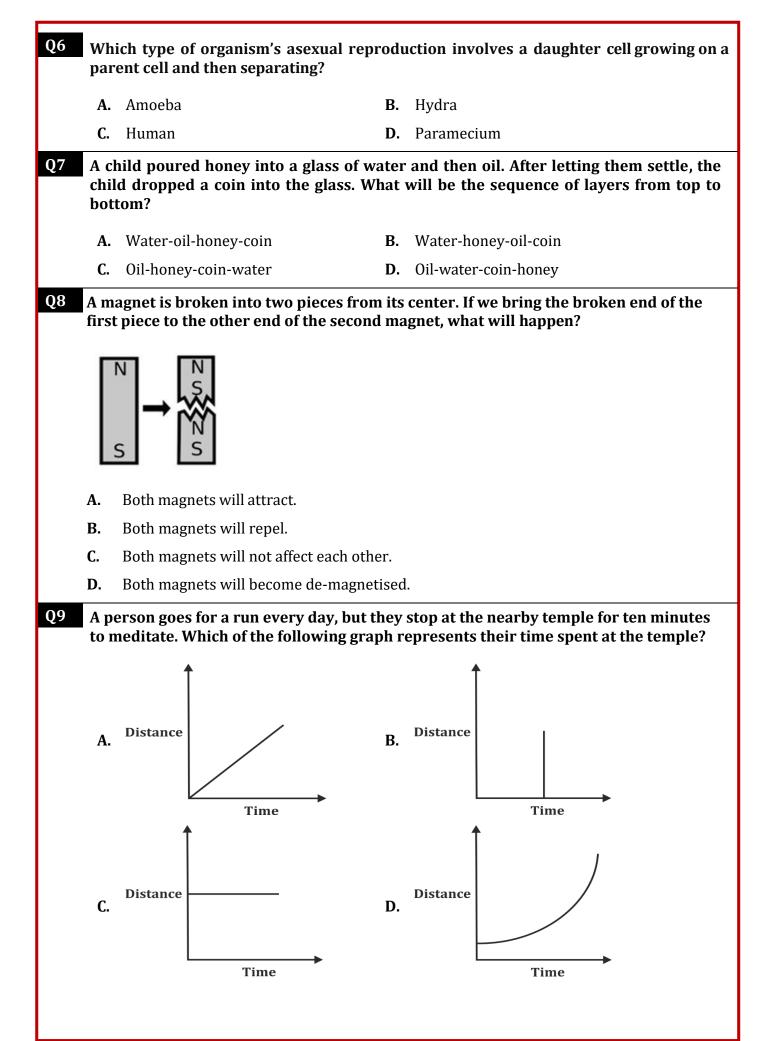
Recently though, it seems like libraries are attracting fewer people. Maybe they aren't reading as much or perhaps they don't have the time to read. It's a bit sad because libraries used to be a community space where people with shared interests could gather and have discussions. Losing libraries means losing that valuable connection.

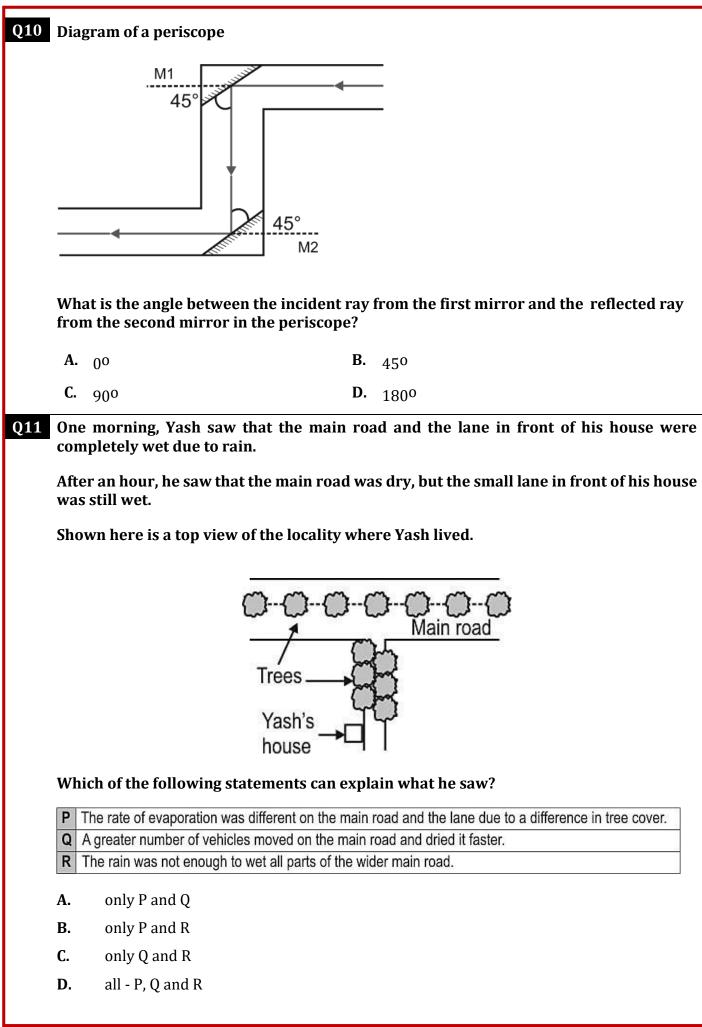
So, it's important for all of us to keep reading and to encourage others to do the same. Libraries aren't just about books; they're about bringing people together and sparking imagination.

Q16 What does the author find overwhelming? Talking to the librarian A. B. Seeing the tall shelves full of books C. Doing research for school projects **D.** Meeting people at libraries 017 As per the passage, what does the librarian NOT do? Make school projects for children. **A**. B. Host book clubs at the library. С. Organise sessions for children. **D.** Suggest interesting books to read. 018 As per the passage, what would happen if libraries were to disappear? The public library will be turned into a bookstore. A. B. Children will start reading more books. C. Children won't have books for school projects. The community space for discussions will disappear. D. Q19 What evidence does the passage have to suggest libraries aren't as popularanymore? A. People find libraries too old-fashioned. B. Libraries aren't hosting book clubs anymore. C. Fewer people are visiting libraries. Libraries don't have a good variety of books. D. Which statement is true as per the passage? 020 A. Libraries are a community space to promote musical interests. B. Visitors find it difficult to find good books at libraries. C. The decline in library visitors is because of high membership fees.

D. Librarians are important for keeping libraries alive and active.

					9	SCIEN		CE			
Q1				en to the 1 on the j		ıs paper i	f tł	1e produ	ict of the	reactio	n specified
	2M	g + O 2	2 2M	gO							
	A.	It wi	ll turn	red		B.	It	will rema	ain blue		
	C.	It wi	ll turn	green		D.	It	will turn	pink		
Q2			•		ospheric pr aces A, B, a		ta	for three	e places,	what ca	n be concluded
					Place			Α	В	С	
				Atmos	pheric pre	essure (Pa)	3937	4450	5700	
	A.	A is t	he hig	hest place	e.	B.	В	is the lov	west plac	е.	
	C.	C is t	he hig	nest place	<u>)</u> .	D.	A	is the lov	west plac	e.	
Q3		•	0		nt normally nd reflecte	-	e i	nirror, t	hen wha	t will be	e the angle
	A.	0°				В.	9(00			
	C.	180º				D.	30	60°			
Q4	attr	action	n amo			•					bout the force of tion among the
			Liqui	d Name	Liquid A	Liquid B]				
			Boili	ng point	120 ⁰ C	180 [°] C					
			<u> </u>		1	1	_				
	A .				on among n			-	-		
	B.				on among n			-	-		
	C. D.		-	-	uid B have			-			h the information
	υ.	prov	-		ake any mi	er ences ab	ou	t the for c	e of attra		
Q5	ent	hnolo ertain	gical ment,	textiles,		llowing th	ıe				elds of building, es and materials,
	-			-							
	A. the novelty of the technologyB. the safety and health risks involved										
	С.				/ efficiency						
	D.				factories t		the	em			
						10					





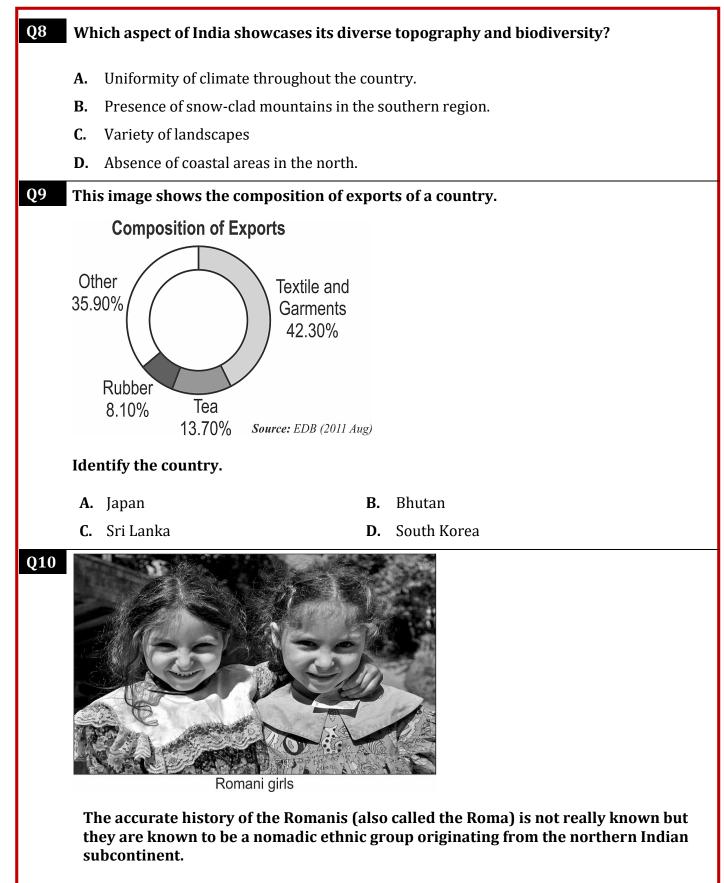
Q12 What is a problem with the circuit given below? Switch Bulb Wire **Batteries** A. The switch is open. В. The bulb is placed in the wrong position. C. The batteries are not connected properly. D. The connecting wires are broken. Q13 Electrical fires cannot be safely put out by dousing them with water. However, fire extinguishers that spray carbon dioxide on the fire work very effectively because it forms a blanket around the burning material. But these carbon dioxide extinguishers cannot be used for wood fires. Why? A. The carbon dioxide blanket itself acts as a fuel and starts burning along with the wood. В. The extinguished wood can retain enough heat inside the carbon dioxide blanket to reignite when the gas dissipates. С. In the presence of carbon dioxide from the extinguisher, the burning wood reacts with oxygen to release heat and make the fire worse. Carbon dioxide reacts with wood to give carbon and oxygen; the oxygen makes the fire D. worse and the carbon burns along with the wood. 014 Which of the following factors should be used to compare the environmental impacts of various types of electric power plants? P - the cost of the fuel required Q - the amount of electricity produced **R** - the cost of setting up the power plant S - the area of land required to set up the power plant T - the types and the amount of the by-products produced **A.** only S and T **B.** only P, R and S **C.** only Q, S and T **D.** all - P, Q, R, S and T

Q15	Giv	en below are a few activities carried	out	by agricultural farmers.				
	1. adding fertilizer or manure to the soil 2. removing the husk to feed cattle 3. removing weeds from the field							
	Which of the above help(s) to increase the amount of nutrients available to the crop plant?							
	A.	only 1	B.	only 1 and 2				
	C.	only 1 and 3	D.	all of the above				
Q16		er is preferred over carbon dioxide stance is wood.	to e	extinguish a fire in which the burning				
	Wha	at could be the reason?						
	A.	Carbon dioxide can extinguish only el	ectri	ical fires.				
	B.	Water stays in contact with the wood	and	cools it down better.				
	C.	Carbon dioxide can be made inflamma	able	by the burning wood.				
	D.	Water reacts with oxygen from the su	rrou	undings faster than carbon dioxide does.				
Q17	An	organism P can only be seen under a	i mio	croscope.				
	Using ONLY this fact, which of the following can be found out?							
	A.	whether P is a prokaryote or a eukaryote						
	В.	whether P is unicellular or multicellular						
	C.	whether P is a plant or an animal						
	D.	(none of the above)						
Q18	Wh	ich of the following is true of vivipar	ous	animals?				
	A.	Fertilisation of the egg takes place ext	erna	ally.				
	B.	Fertilisation of the egg takes place int	erna	ally.				
	C.	They lay eggs which have hard shells.						
	D.	They lay soft eggs directly in water.						
Q19	An	organism uses oxygen during the da	y.					
	Wh	ich of the following is DEFINITELY tr	ue a	about this organism?				
	A.	It is an animal.						
	B.	It is not a plant.						
	C.	It will use oxygen during the night.						
	D.	It will use carbon dioxide during the n	ight	- 				

Q20 Which of the following causes an increase in the greenhouse effect in the Earth's atmosphere?

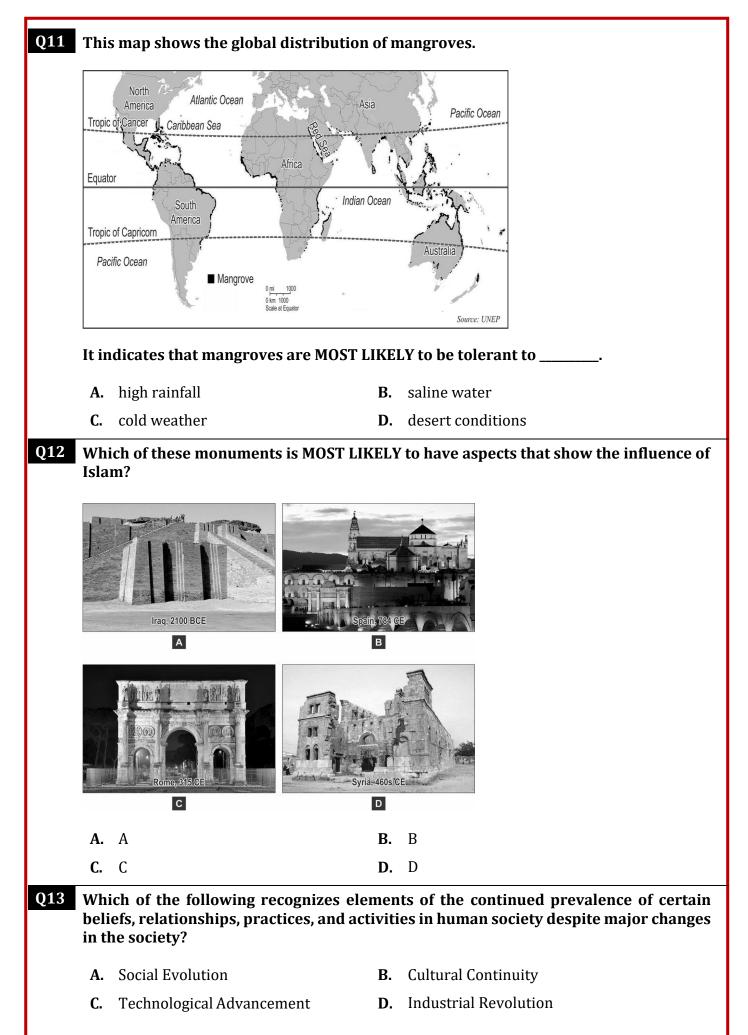
- P. burning of coal
- Q. ozone hole near the South Pole
- R. increase in the level of methane in the atmosphere due to increase in animal farming
- A. only P and Q B. only Q and R
- C. only P and R D. all P, Q and R

		SOCIAL	S	CIENCE				
Q1	Whi	ich type of forest is characterized	by l	high rainfall and diverse flora and fauna?				
	A.	Tropical rainforest	B.	Temperate deciduous forest				
	C.	Taiga forest	D.	Mediterranean forest				
Q2		ich idea from the Indian national mo tate policy of the Indian Constitution		nent is reflected in the directive principles				
	A.	Liberty	B.	Equality				
	C.	Fraternity	D.	Socialism				
Q3	Which tier of local self-government in India is responsible for planning and implementing schemes related to rural development at the village level?							
	A.	Panchayat Samiti	B.	Gram Panchayat				
	C.	Zilla Parishad	D.	Municipal Corporation				
	belo	ny non-violent protests against racial discrimination in South Africa. Which of the ow mentioned movements was inspired from his ideas and sought the end of racial crimination? The Civil Rights Movement in the United States during the 1950s and 1960s. The Suffragette Movement in the early 20th century. The Environmental Movement in the 1960s. The LGBTQ+ Rights Movement in the 21 st century.						
Q5		ich session of the Indian National Con stituent Assembly?	ngre	ess first demanded the idea of a				
	A.	Lahore session, 1929	B.	Karachi session, 1931				
	C.	Bombay session, 1934	D.	Lucknow session, 1936				
Q6		ich process is responsible for the ling soil formation?	orea	kdown of rocks into smaller particles				
	A.	Erosion	B.	Weathering				
	C.	Deposition	D.	Compaction				
Q7	7 How does India demonstrate unity in diversity across its cultural elements, languages, and practices?							
	A.	By including only one language in the	con	stitution.				
	B.	Through its rich diversity in language	s, ai	t and cuisine celebratednationwide.				
	C.	By enforcing uniformity in clothing st	yles	and traditions.				
	D.	Through strict regulation of cultural f	esti	vals and traditions.				



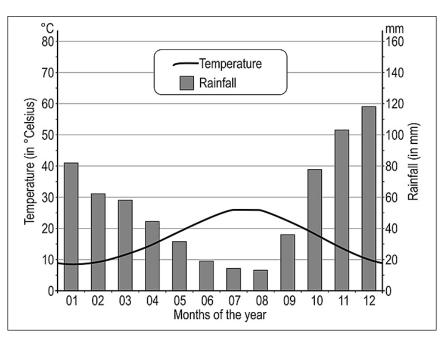
Which one of the following would be BEST indicative of the fact that they are nomads?

- A. their physical appearance
- **B.** the mode of transport they use to get from place to place
- **C.** the presence of words from different languages in their speech
- **D.** the fact that the most of them now reside in European countries



Q14	What was a major effect of the spread of industrialization and factories in the world during the 19 th and 20 th Century?							
	A.	Rapid growth of cities	B.	Increase in social equality				
	C.	Decrease in armed conflict.	D.	Decline in food production				
Q15	Wh	ich of the following is an example of	the	tyranny of the majority?				
	А. В.			e things they need because of public policies. e minority problems to be discussed and				
	C.	The representation of minority groups in government jobs and elected positions is increased.						
	D.	The government intervenes to change uniform.	e the	personal laws of all religions and makes them				
Q16	 Slash and burn agriculture is a widely used method of shifting cultivation in which wild land is cleared and any remaining vegetation burned. This land is used for agriculture for a few years after which new land is cleared. Which of the following is an environmental problem NOT caused by this? 							
	A.	deforestation and loss of biodiversi	ty					
	В.	increased rates of soil erosion						
	C.	pesticide residue in food						
	D.	increase in air pollution						

Q17 Shown here is the average monthly temperature and precipitation of a region.



Identify the climate type of this region.

- A. tundra
- **C.** semi-arid

- **B.** dry polar
- -arid **D.** hot desert

