SMART CHALLENGERS

SMART CHALLENGERS QUESTIONS – MARCH 2022

1. Find the odd one out?	
396, 462, 572, 427, 671, 264	
A	671
B	462
C	427
D	264

2. How much energy will the newest solar panel generate?

⚡ 02.06 V   ⚡ 01.06 V   ⚡ 02.20 V

⚡ 03.24 V   ⚡ 02.26 V   ⚡ ? V
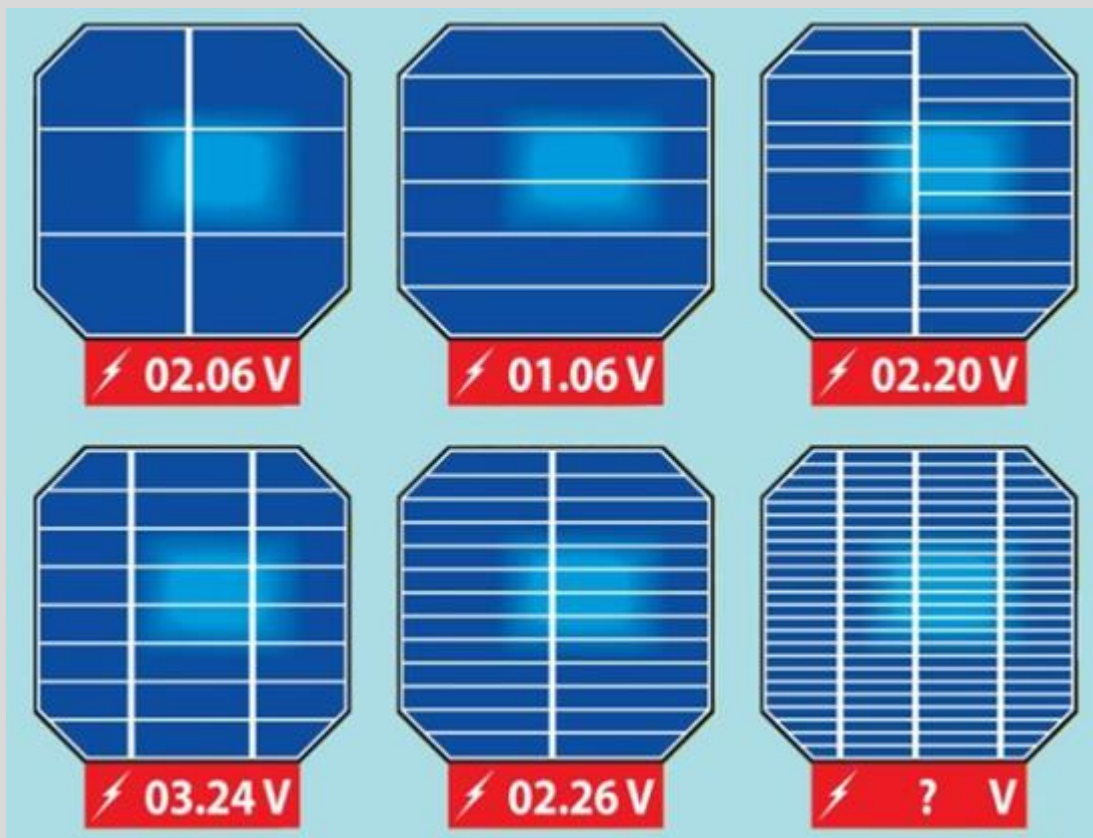
3. A ship anchored in a port has a ladder which hangs over the side. The length of the ladder is 200cm, the distance between each rung is 20cm and the bottom rung touches the water. The tide rises at a rate of 10cm an hour. When will the water reach the fifth rung.

4. Fill up the blanks so that the equation is satisfied.

$$A + B = 8$$
$$+ \quad +$$
$$C - D = 6$$
$$= \quad =$$
$$13 \quad 8$$

5. Each firework (A - F) contains 6 stars. Which firework has not been launched knowing that each gives off 1, 2, or 3 stars of its corresponding colour?
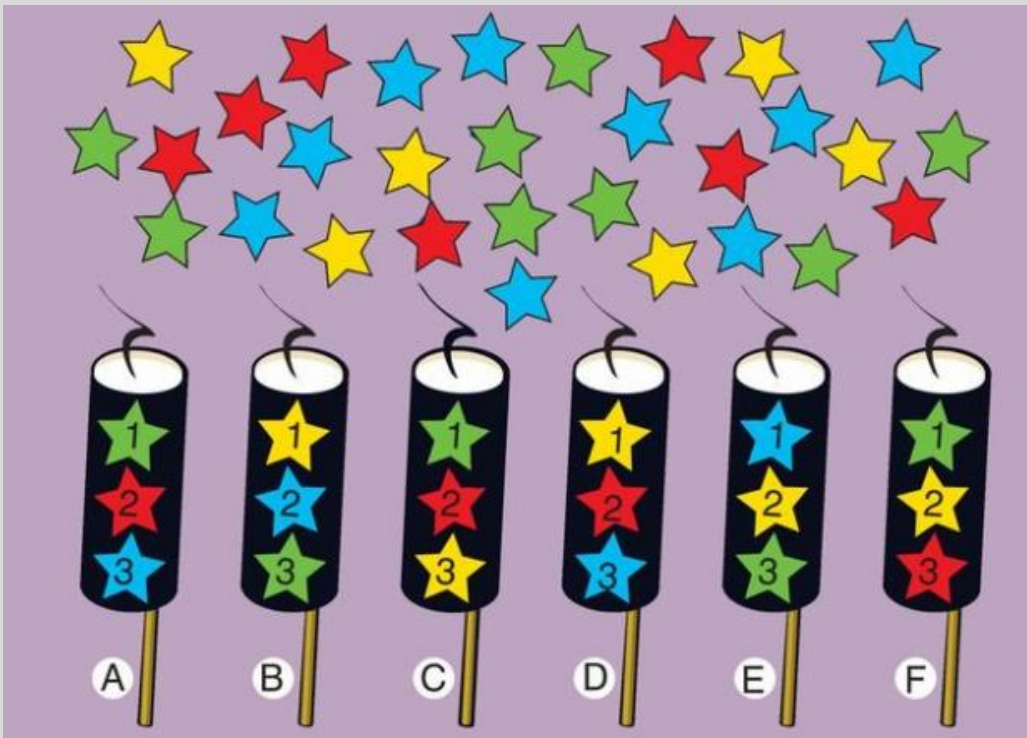
A	A

B	E
C	C
D	F

6. Create a mathematical equation using the following symbols.

2345+=

7. A man has 53 socks in his drawer. 21 identical blue, 15 identical black and 17 identical red. The lights are out and he is completely in the dark. How many socks must he take out to make 100 percent certain he has at least one pair of black socks?

A	15 socks
B	30 socks
C	20 socks
D	40 socks

8. The UAE Government is levying excise tax of 100 % to reduce the consumption of tobacco while also raising revenues for the government that can be spent on beneficial public services.
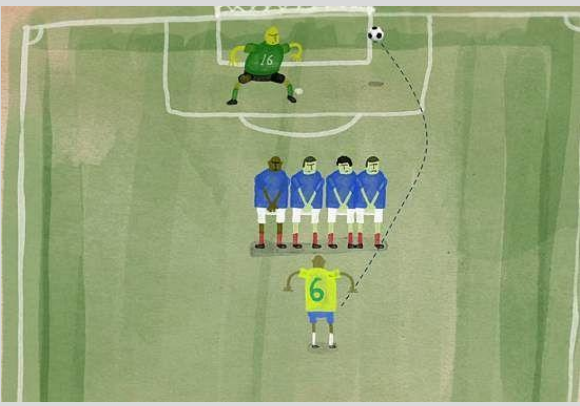
What are the impacts of excise duty on consumer and the UAE government

A	Consumers buy less and government's revenue will increase
B	Consumers buy more and government's revenue decrease
C	Consumers still buy because of addiction and it increase government's revenue
D	Consumers will not buy at all and Government's revenue remain the same

9. Which one of the following describes Kaizen?	
A	Skilled manufacturing
B	Just-in-time (JIT)
C	Market orientated
D	Continuous improvement

10. It is an OS that is open sourced and developed by Google.	
A	Windows
B	iOS
C	Android
D	Linux

11. On June 3, 1997, Roberto Carlos stunned the world with one of the most spectacular free kicks in football history. The trick behind the famous banana kick is	
A	The speed, direction and spin of the ball
B	The acceleration and the initial speed of the ball
C	The acceleration and the spin of the ball
D	Physics ghosted the ball the moment it was kicked

12. Fill the blanks with the correct words. This computer has been installed with an _____ software used for learning English.	
A	Advance
B	Advanced
C	Advancing
D	Advancement

13. Each of the participants ------------- to be present at the venue before 8 am.	
A	Have
B	are
C	Has

14. Harriet quietly slipped her key into the front door lock and turned it carefully. It was a sunny afternoon, and as she eased the door open, she thought she heard a neighbour walk by. She stopped her movements, startled, but it was only her imagination. She slowly pushed open the heavy door, careful not to make the hinges squeal. She slipped through the front door, desperately trying to remember which floor plank creaked the loudest. "It's the one on the left," she remembered with relief, and carefully placed her foot on the plank to the right. Which detail from the passage best supports the inference that Harriet is trying not to be heard?	
A	"It's the one on the left," she remembered with relief.
B	She slowly pushed open the heavy door.
C	Harriet quietly slipped her key into the front door lock and turned it carefully.

D	It was a sunny afternoon, and as she eased the door open, she thought she heard a neighbour walk by.

15. In the past, only the upper class could afford a comfortable life. Now artisans and tradesmen can afford beautiful and comfortable things, and soon the working class will be able to as well. Steam powered machines already produce high quality goods at prices that everyone can afford. In addition, steamboats and trains now transport people over long distances luxuriously and quickly.

What is the main idea of this text?

A	Class differences are being erased by new discoveries.
B	New inventions are making life better for people of all classes.
C	Steam-powered machinery has provided beautiful clothing for all people.
D	Industry will bring many conveniences to people in the future.

16. Which of these words is the odd one out?	
A	Autumn
B	Column
C	Climb
D	Legible

17."The wide, bleak moor was a wide expanse of black ocean". What technique is used here?	
A	Metaphor

B	Simile
C	Cliche
D	An allusion

18. No one could believe that my father left eating sweets! He **went cold turkey** when the doctors told him that he has diabetes.

What does the phrase 'went cold turkey' mean?

A	To disappear
B	To visit Turkey
C	To quit or stop addictive or dangerous behaviour
D	To run fast

19. Michael Jackson won the 1984 Grammy award for the Record of the Year for the song:

A	Heal the World
B	Beat It
C	Thriller
D	Bad

20. After a nuclear disaster, the Strontium-90 becomes an health issue of great concern. What is the major concern about this particular isotope?

A	Strontium-90 gets deposited in the Red Blood Cells and causes Blood Cancer
B	Strontium-90 gets deposited in the Liver cells and causes Liver Cirrhosis
C	Strontium-90 gets deposited in bones and bone marrow and causes cancer
D	None of the above is a correct statement

21. An mRNA is 429 nucleotides long. The number of amino acids in the polypeptide chain formed from this mRNA is	
A	142
B	143
C	141
D	145