	ervational Skills Questions: 25   Total Time: 60 mins	DEŽIGNEX
Total C	Questions: 25   Total Time: 60 mins	
	<b>tion: 1</b> carbon is produced in the atmosphere as a result of	[Single Correct Option, +4, -1
А	Collision between fast neutrons and nitrogen nucle	i present in the atmosphere.
В	Action of ultraviolet light from the sun on atmosph	eric oxygen
С	Action of solar radiations particularly cosmic rays of	on carbon dioxide present in the atmosphere
D	Lightning discharge in atmosphere	
Quest	<b>tion: 2</b> asier to roll a stone up a sloping road than to lift it ve	[Single Correct Option, +4, -1
А	Work done in rolling is more than in lifting.	B Work done in lifting the stone is equal to rolling it.
С	Work done in both is same but the rate of doing wo	ork is less in rolling.
D	Work done in rolling a stone is less than in lifting it.	
A	The densities of the liquid in the two vessels are en	Jual.

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<b>Question: 4</b> Nuclear sizes ar	e expressed in a unit named		[Single Correct Option, +4, -1
A Fermi		B Angstrom	
C Newton		D Tesla	
Question: 5			[Single Correct Option, +4, -1
Mirage is due to			
A Unequal	heating of different parts of the atmosphere	B Magnetic	disturbances in the atmosphere
C Depletion	n of ozone layer in the atmosphere	D Equal hea	ting of different parts of the atmosphere
Question: 6			[Single Correct Option, +4, -1
Light from the S	Sun reaches us in nearly		
A 2 minute	S	B 4 minutes	
C 8 minute	S	D 16 minute	s
Question: 7			[Single Correct Option, +4, -1
	It to walk on a sandy road than on a concrete	e road because	
A sand is s	oft and concreter is hard.		
B the friction	on between sand and feet is less than that be	etween concrete ar	nd feet.
C the friction	on between sand and feet is more than that b	etween concrete a	and feet.
D the sand	is grainy but concrete is smooth.		
Question: 8			[Single Correct Option, +4, -1
	n-proof coats and tents owe their water-proc	of properties to	
A surface t	ension	B viscosity	
C specific g	gravity	D elasticity	
Question: 9			[Single Correct Option, +4, -1
On a rainy day,	small oil films on water show brilliant colours.	. This is due to	
A dispersio	'n	B interferen	ce
C diffractio	n	D polarizatio	on
<b>Question: 10</b> On a clean glas: because:	s plate a drop of water spreads to form a thin	layer whereas a d	[Single Correct Option, +4, -1 rop of mercury remains almost spherical
A mercury	is a metal.	B density of	mercury is greater than that of water.
C cohesion	of mercury is greater than its adhesion with	glass.	
D cohesion	of water is greater than its adhesion with gla	ass.	
			[Single Correct Option, +4, -1

in the hills the atmospheric pressure is lower than that in the plains and therefore water boils at a temperature lower than 100°C causing an increase in cooking time

due to low atmospheric pressure on the hills, the water boils at a temperature higher than 100°C and therefore water takes longer to boil

in the hills the atmospheric density is low and therefore a lot of heat is lost to the atmosphere

in the hills the humidity is high and therefore a lot of heat is absorbed by the atmosphere leaving very little heat for cooking

# **Question: 12**

Inside an aeroplane, flying at a high altitude,

A the pressure is the same as that outside.

B normal atmospheric pressure is maintained by the use of air pumps.

C the pressure inside is less than the pressure outside.

normal humidity and partial vacuum are maintained.

Iron, air and water

Iron, water and air

[Single Correct Option, +4, -1]

[Single Correct Option, +4, -1]

[Single Correct Option, +4, -1]

## **Question: 13**

Sound travels with a different speed in media. In what order does the velocity of sound increase in these media?

A

Water, iron and air

Air, water and iron

### **Question: 14**

Oil raise up the wick in a lamp. The principle involves

A	the diffusion of oil through the wick	В	the liquid state of oil	
С	capillary action phenomenon	D	volatility of oil	
	<b>stion: 15</b> vay tracks are banked (raising the outer <b>rail</b> or th	he outer edge d	of the road creates a bar	[Single Correct Option, +4, -1] hked turn) on curves because

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A	Scattering	В	Diffraction
С	Interference	D	Polarization
ainbo his? Diffus .Refr	t <b>ion: 20</b> ow is produced when sunlight fall on drops of rain. Whic sion action rnal reflection	h of t	[Single Correct Option, +4, -1]
А	I, II and III	В	I and II
С	II and III	D	I and III
	t <b>ion: 21</b> asier to roll a barrel full of coal tar than to pull it because the full weight of the barrel comes into play when it is p		[Single Correct Option, +4, -1]
B C	the rolling friction is much less than the sliding friction more surface area of the barrel is in contact with the ro		hen it is nulled
D	coal tar is a liquid and it flows in the barrel when it is ro		
	t <b>ion: 22</b> g thunderstorm you are travelling in a car. To protect you	urself	[Single Correct Option, +4, -1] from the lightning you will have to
A	Remain in the car	В	Get out of the car and lie flat in the ground
С	Abandon the car and take shelter under a nearby tree	D	Touch the nearest electric pole
	t <b>ion: 23</b> sitting on a high tension electric wire does not get elec	trocut	[Single Correct Option, +4, -1]
A	It has high resistance	В	The body is earthed
С	It does not form a closed path for the flow of current	D	Its feet are good insulators
	tion: 24 stations Mussoorie, the boiling point of water will be		[Single Correct Option, +4, -1]
A	Same as that of Delhi	В	Less than that at Delhi
С	More than that at Delhi	D	Equal to the melting point of ice
	t <b>ion: 25</b> en a door easily, the handle should be fixed		[Single Correct Option, +4, -1]
A	Near the hinges	В	Away from mid-point opposite to hinges
С	In the middle	D	None of these

# Sketching

Total Questions: 3 | Total Time: 60 mins

/

# **Question: 1**

[Single Correct Option, +1, -0]

)<u>EŞIG</u>N

Identify one particular thing that you do everyday when you wake up and represent it with a neat sketch.



Next Question

# **Question: 2**

# [Single Correct Option, +1, -0]

Design a product for a 50 year old person that will help him in doing two of his day-to-day activities. Represent your sketch with neat sketches. Also show how the user will interact with the product that you have designed.



# [Single Correct Option, +1, -0]













Shown above is a product used for a certain purpose. Write a story that revolves around the product in not more than 150 words.



Next Question

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