# Sample Questions Paper

#### 1. Select the incorrect statement.

- (A) Phloem tubes are only found in the leaves of plants as the is where the sugars are made.
- (B) Volume of blood in an average human adult is 10 liters.
- (C) Blood contains many more white blood cells than red blood cells.
- (D) All of the above
- (E) None of these.

# 2. Which of the following processes, if absent, would most significantly affect the movement of water through xylem in the stem?

- (A) Minerals salts being taken in by active transport in the roots.
- (B) Water lost from the aerial parts of the plant.
- (C) Water being given off during respiration.
- (D) Water taken in by osmosis in the roots.
- (E) None of these.

3.	Pulmonary _	carries	rich blood from the heart to the lungs and
	pulmonary	carries	rich blood from the lungs to the heart.
	Select the opti	on that correctly	fills up the blank spaces in the above passage.

- (A) Vein, Carbon dioxide, Artery, Oxygen
- (B) Vein, Oxygen, artery, Carbon dioxide
- (C) Artery, Carbon dioxide, Vein, Oxygen
- (D) Artery, Oxygen, Vein, Carbon dioxide
- (E) None of these.

#### 4. Select the correct statement

- (A) Veins carry oxygenated blood
- (B) Arteries are located below our skin.
- (C) Capillaries connect the veins and arteries.
- (D) The heart is a special kind of tissue.
- (E) None of these.

#### 5. Pick the odd one out:

(A) Salt

(B) Urea

(C) Blood

(D) Water

(E) None of these.

(E) None of these.

<b>6.</b>	The	equation below shows the process of respiration.
	Oxy	gen + = + + water vapour
		Energy, sugar, carbon dioxide
		Starch, carbon dioxide, energy
		Glucose, energy, carbon dioxide
		Water, carbon dioxide, starch
	(E)	None of these.
7.	Whi	ich of the following statements about the function of the lungs is true?
	(A)	The lungs remove oxygen from the body.
	(B)	The lungs remove carbon dioxide from the body.
	(C)	The lungs transport oxygen produced by the heart.
	(D)	The lungs transport carbon dioxide produced by the heart.
	(E)	None of these.
8.	The	air that we breathe out has a than the air that
	we b	preathe in .
		Lower temperature (B) Greater amount of oxygen
	(C)	Greater amount of carbon dioxide (D) Smaller amount of water vapour
	(E)	None of these.
9.1	Vhat	causes fermentation?
	(A)	Aerobic respiration
	(B)	Breathing
	(C)	Anaerobic respiration
	(D)	Photosynthesis
	(E)	None of these
10.	Wha	at is the normal breathing rate in a human adult?
	(A)	60 breathe per minute
	(B)	40 breaths per minute
	(C)	12 – 18 breathe per minute
	(D)	24 – 30 breaths per minute
	(E)	None of these.
11.	Wha	at is sludge?
		By-products of wastewater treatment
	(B)	Waste from homes and hospitals
	(C)	Decomposed sewage
		All of these

12	TAThon	•	Morld	Water D	OTT COL	اما	heat	Fad	2
14.	<b>VV 11611</b>	19	WULLU	water D	ay ce		vrai	leu	•

- (A) 22 March
- (B) 21 June
- (C) 22 December
- (D) Never!
- (E) None of these.

### 13. Which of these are long term effects of global warming?

- (A) Melting of glaciers and a rise in sea level
- (B) Global change in climate
- (C) Change in type of vegetation
- (D) Floods and droughts
- (E) None of these.
- (a) (A) & (B)

(b) (B) & (C)

(c) (A), (B) & (C)

(d) All of these

(e) None of these.

#### 14. Which of these is not an advantage of non-renewable sources of energy?

- (A) Cheap
- (B) Environmentally friendly
- (C) Readily available
- (D) Efficient
- (E) None of these.

## 15. Which of these will happen if there is a decrease in plant population?

- (A) Increase in temperature
- (B) Plant eaters will compete fiercely for food
- (C) Animals will get less water
- (D) Decrease in rainfall
- (A) (A) & (B)

(B) (A), (B) & (C)

(C) (A), (B) & (D)

(D) All of these

(E) None of these.

#### 16. Pick the odd one out

- (A) Temperature
- (B) Wind speed
- (C) Climate
- (D) Rainfall
- (E) None of these.

#### 17. What kind of climate does North- east India have?

- (A) Extremely cold
- (B) Hot and dry
- (C) Hot and moist
- (D) Wet
- (E) None of these.

#### 18. What is the function of the part labeled as 'X'?

- (A) To protect the camel from heat.
- (B) To provide a place for the saddle.
- (C) To store fat to be used when food becomes scarce in the desert.
- (D) To control evaporation on hot days.
- (E) None of these.

### 19. This creature rarely comes down on the ground. Why?

- (A) It cannot walk.
- (B) It is easily attacked by predators.
- (C) It is a good climber.
- (D) It is able to get sufficient food on the trees.
- (E) None of these.

## 20. Name the Instrument which measure humidity.

(A) Thermometer

(B) Hygrometer

(C) Hydrometer

(D) Rain gauge

(E) None of these

## 21. Respiration is a \_\_\_\_\_ change.

- (A) Physical & exothermic
- (B) Chemical & endothermic
- (C) Chemical & exothermic
- (D) Physical & endothermic
- (E) None of these.

## 22. What happens when water freezes?

- (A) A new substance is formed.
- (B) No new substance is formed.
- (C) Water gets converted to its solid form
- (D) Both A & B
- (E) None of these.





	ting can be prevent by depositing a	layer	of zinc on iron.
This	process is called		
` ,	Galvanization	(B)	4
` ,	Ozonization	(D)	Oxidation
(E)	None of these.		
24. A ch	nemical change reversed.		
` ,	Cannot be		May be
(C)	Can be	(D)	Can sometimes be
(E)	None of these.		
25. Whi	ich substances cannot be furthe	r de	composed by a normal chemical
reac	tion?		
(A)	Air	(B)	Water
	Copper	(D)	Sugar
(E)	None of these		
26. Why	y do cyclones spin?		
(A)	Because the wind pushes here and t	here	
(B)	Because of the spinning of the Earth	h	
(C)	As winds move from low pressure t	o hig	h pressure
	As winds move from high pressure	to lo	w pressure
(E)	None of these.		
27. Whi	ich one of the following place is unl	ikely	to be affected by a cyclone?
(A)	Chennai	(B)	Mangaluru (Mangalore)
(C)	New Delhi	(D)	Pune
(E)	None of these.		
28. Whi	ich of these technologies help in cyc	clone	forecasts?
(A)	Radar	(B)	Computers
(C)	Satellites	(D)	Both a & c
(E)	None of these.		
29. The	phenomenon of wind occurs becau	ise	
(A)	Of the uneven heating of the earth's	surf	ace by the sun.
(B)	Of the spinning of the Earth		
(C)	Of moving air		
	Air exerts pressure		
(E)	None of these.		

30. Wii	nd direction can be f	ound out by usir	ng a	•
(i)	Wind vane		(ii)	Wind sock
(iii)	anemometer		(iv)	Lighting and agarbatti and seeing
	(1) (1) - (1)		<i>,</i> \	which way the smoke blows
	(i), (ii) & (iii)			(ii) & (iii)
	(i), (ii) & (iii)		(D)	(i) & (iii)
(E)	None of these			
31. Fro	m which plant is 'liti	mus' extracted?		
(A)	Litchi		(B)	Lichen
(C)	Lime		(D)	All of these
(E)	None of these.			
32. Aci	d + (i) →	(ii) + water		
	(i) Salt,		(ii)	Base
	(i) Base,			
	(i) Base,		` ′	Oxygen
	(i) Salt,		(ii)	Acid
	None of these.		(11)	1101.0
33.	Sampla	Blue litmus red	4	Red litmus blue
	<u>Sample</u> Tea		<u>.1</u>	
		<b>✓</b>		× ✓
	Tomato Juice Quick lime	×		
	Window cleaner			×
(D)		X convectly match	~42	<b>✓</b>
(1)	Which of these are	•		B & C
` ,	A & B		(B)	
	A & D		(D)	All of these
(E)	None of these.			
34. Eac	h cell of our body con	tains this acid w	hich	controls our looks, height and so on.
Wh	ich acid is it?			
(A)	LNA		(B)	DNA
(C)	NDA		(D)	RNA
(E)				
(上)	None of these.			
, ,	None of these.	·		
35. The			(B)	= 7
35. The (A)	pH of acids is		(B) (D)	

36. Unt	if the process of melting is complete, there is in temperature.
(A)	Increase
(B)	Decrease
(C)	No change
(D)	Absolute change
(E)	None of these.
37. The	SI unit of heat is
(A)	Calorie (B) Joule
(C)	Celcius (D) Kelvin
(E)	None of these.
38. kare	eena wants to eat jam and bread. The lid of the jam bottle would not come off,
thou	igh she tried very hard. Which of these will work best for her?
	Pour hot water over it, it will expand and be easy to open.
(B)	Put it in a bucket of ice, it will expand and be easy to open.
	Make a hole in the lid so the trapped air comes out.
	Hammer it lightly from all sides. It will open.
(E)	None of these.
	first thermometer was built by
	Benjamin Thompson
	Benjamin Franklin
` ,	Anders Celcius
` ,	Galileo Galilei
(E)	None of these.
	at happens when camphor is heated?
	It expands
` ,	It sublimes
	It evaporates
	It condenses
(E)	None of these.
	ange the steps of processing fibre into wool in the correct order.
<b>(i)</b>	Dying (ii) Sorting (iii) Shearing
	Scouring (v) Straightening/rolling (vi) Removing burrs
` ,	$ii \rightarrow i \rightarrow iii \rightarrow iv \rightarrow vi \rightarrow vi$ (b) $iii \rightarrow ii \rightarrow iv \rightarrow i \rightarrow v \rightarrow vi$
` ,	$iii \rightarrow iv \rightarrow ii \rightarrow vi \rightarrow i \rightarrow v$ (d) $iv \rightarrow i \rightarrow iii \rightarrow vi \rightarrow ii \rightarrow v$
(e)	None of these.

42	The still-	:)		. 1.	\+	112
44.	The silkworm	15 a	pupa	L U	) caterpr	mar:

- $(A) \quad B \qquad \qquad (B) \quad A$
- (C) Both a & b (D) Neither a nor b
- (E) None of these.

#### 43. The properties below describe which of the following fabrics?

- (i) Machine made (ii) Soft to touch
- (iii) Does not get creased (iv) Can be washed
- (v) Is creaseless
- (A) Cotton(B) Silk(C) Nylon(D) Wool
- (E) None of these.

## 44. Bakhrwal, Marwari, Nali are types of \_\_\_\_\_.

- (A) Silk (B) Goats
- (C) Cotton (D) Sheep
- (E) None of these.

### 45. Identify the animal. Where is it found?

- (A) Llama, Tibet
- (B) Alpaca, South America
- (C) Angora goat, Kashmir
- (D) Yak, Lower Himalayas
- (E) None of these.

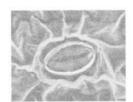
## 46. The given part of a plant helps out in \_\_\_\_\_.

- (A) Photosynthesis
- (B) Respiration
- (C) Transpiration
- (D) All of these
- (E) None of these.

# 47. This is a skull of an animal with sharp incisors. It is the skull of

- (A) Herbivore
- (B) Carnivore
- (C) Omnivore
- (D) Saprophyte
- (E) None of these.







48.	Name	the	protein	contained	in	egg	white.
10.	Manie	tile	protein	contained	111	55	WIIItC.

(A) Casein

(B) Albumin

(C) Pepsin

(D) Trypsin

(E) None of these.

#### 49. Who has homodont teeth?

(A) Humans

(B) Dogs

(C) Frogs

(D) Cows

(E) None of these.

## 50. The organism in the picture is a \_\_\_\_\_.

(A) Symbiont

(B) Saprophyte

(C) Parasite

(D) Omnivore

(E) None of these.



Note: The actual Question Paper will translated in Hindi at the time of exam.

	Darken your choice with HB Pencil																						
1	A	B	©	<b>D</b>	E	14	A	B	<u>C</u>	D	E	27	A	B	©	<b>D</b>	E	40	A	B	©	<b>D</b>	(E)
2	A	B	<b>©</b>	<b>D</b>	E	15	A	lacksquare	<b>©</b>	D	E	28	A	lacksquare	<b>©</b>	<b>D</b>	E	41	A	lacksquare	<b>©</b>	D	E
3	A	B	<u>C</u>	<b>D</b>	E	16	A	B	<b>©</b>	D	E	29	A	B	<b>©</b>	<b>D</b>	E	42	A	B	<b>©</b>	<b>D</b>	E
4	A	B	<b>©</b>	<b>(</b>	E	17	A	lacksquare	<b>©</b>	D	E	30	A	lacksquare	<b>©</b>	<b>D</b>	E	43	A	lacksquare	<b>©</b>	D	E
5	A	B	<b>©</b>	<b>D</b>	E	18	A	B	<b>©</b>	D	E	31	A	B	<b>©</b>	<b>D</b>	E	44	A	B	(C)	D	E
6	A	B	<b>©</b>	<b>(D)</b>	E	19	A	lacksquare	<b>©</b>	<b>D</b>	E	32	A	lacksquare	<b>©</b>	<b>(</b>	E	45	A	lacksquare	<b>©</b>	<b>D</b>	(E)
7	A	B	<b>©</b>	<b>D</b>	E	20	A	B	<b>©</b>	D	E	33	A	B	<b>©</b>	<b>D</b>	E	46	A	B	<b>©</b>	<b>D</b>	E
8	A	B	<b>©</b>	<b>(</b>	E	21	A	lacksquare	<b>©</b>	<b>D</b>	E	34	A	lacksquare	<b>©</b>	<b>(</b>	E	47	A	lacksquare	<b>©</b>	<b>D</b>	(E)
9	A	B	<b>©</b>	<b>D</b>	E	22	A	B	<b>©</b>	<b>D</b>	E	35	A	B	<b>©</b>	<b>D</b>	E	48	A	B	<b>©</b>	<b>D</b>	E
10	A	B	<b>©</b>	<b>(</b>	E	23	A	lacksquare	<b>©</b>	<b>(</b>	E	36	A	lacksquare	<b>©</b>	<b>(</b>	E	49	A	lacksquare	<b>©</b>	<b>(</b>	(E)
11	A	B	<b>©</b>	<b>D</b>	E	24	A	B	<b>©</b>	<b>D</b>	E	37	A	B	©	<b>D</b>	E	50	A	B	<b>©</b>	<b>D</b>	E
12	A	B	©	<b>(</b>	E	25	A	B	©	<b>D</b>	E	38	A	B	©	<b>(</b>	E						
13	A	B	<u>©</u>	<b>D</b>	E	26	A	B	<b>©</b>	D	E	39	A	B	<b>©</b>	<b>D</b>	E						