1

Air Around us <1M> 1.A windmill can perform which of the following? (A) Generate electricity. (B) Draw water from tube well. (C) Run a flourmill. (D) All of the above. 2.Gas in air that is essential for respiration is: (B) Nitrogen. (C) Helium. (A) Oxygen. (D) Can't be said. 3. The envelope of air that surrounds us is known as \_\_\_ (A) Troposphere. (B) Atmosphere. (C) Exosphere. (D) None of the above. 4. Burning can occur only in presence of: (A) Carbon-di-oxide. (B) Nitrogen. (C) Oxygen. (D) Sulphur. 5. Dust particles are: (A) Always present in air. (B) Never present in air. (C) Only present in water. (D) All of the above. 6. Mountaineers carry oxygen cylinder with them because: (A) Oxygen is not present at high altitudes. (B) It is present buton small scale. (C) Both (a) and (b) are correct. (D) They will fly away if they don't put some weight. 7. For water cycle to happen, which is the important constituent of water? (A) Nitrogen. (B) Oxygen. (C) Water Vapour. (D) All of the above. 8. Which of the following makes up four-fifth of the total air? (A) Nitrogen. (B) Oxygen. (C) Helium. (D) Carbon-di-oxide. 9.If there is some material in your room that is burning, you may feel suffocation after sometime due to the presence of \_\_\_\_\_ in excess. (A) Oxygen (B) Carbon-di-oxide (C) Nitrogen D) All of the above. 10.During the process of respiration, plants and animals consume \_\_\_\_\_ and produce

(C) Nitrogen

(D) Helium

(B) Oxygen

11. Wind mill works because of flow of \_\_\_\_\_ in atmosphere.

carbon-di-oxide. (A) Carbon-di-oxide

Air Around us			2			
(A) Water	(B) Matter	(C) Hydrogen	(D) Air			
12.In our outer space (A) Vacuum.	e there is: (B) Hydrogen.	(C) Oxygen.	(D) Air.			
13.Long chimneys are	e used in factories bec	ause:				
(A) It provides passage to harmful gases. (C) Outer space needs these gases.		<ul><li>(B) It is just a formality for factory.</li><li>(D) None of the above.</li></ul>				
14.The most abundar (A) Oxygen.	nt gas on our planet is: (B) Hydrogen.	(C) Carbon-di-oxide.	(D) Nitrogen.			
15.Fine hair with mu	cus in our nostrils, do v	which of the following	functions?			
<ul><li>(A) Prevent harmful grespired.</li><li>(C) They haveno functions respire better.</li></ul>	gases to get respired.		ust particles to get mply present to make			
16.The animals living (A) Nitrogen	in water use (B) Helium	dissolved in water. (C) Both (a) and (b).	(D) Oxygen			
17.Policeman regulating traffic at a crowded crossing often wears a mask to:						
<ul><li>(A) Protect himself from harmful gases.</li><li>(C) Get rewarded.</li></ul>		(B) Manage traffic better. (D) None of the above.				
18.Lump of cotton w heavier (A) Water, Air	ool shrinks in water be		s replaced by  (D) Water, Water			
	nich plants make their (B) Fermenta					
20.Plants produce me	ore than they	consume during photo	synthesis.			
(A) Nitrogen (B) He	lium (C) Carbon-di	-oxide (D) Oxygen				
21.Air plays an impor (A) Water cycle of the above.		(C) Matter cy	cle (D) All			

Air Around us 3

- 22. Burning of fuel in automobiles produces:
- (A) Carbon-di-oxide. (B) Carbon-mono-oxide. (C) Sulphur-di-oxide. (D) All of the above.
- 23. Air in motion is called:
- (A) Wind. above.
- (B) Air.
- (C) Both (a) and (b).
- (D) None of the

24.Refer to the diagram given in the figure below-



What prevents the bottle from being filled with water?

- (A) Water.
- (B) Paper.
- (C) Air.
- (D) Mercury.

- 25. What is wind?
- 26. Which gas in the atmosphere is essential for respiration?
- 27. What is atmosphere?
- 28. Which component of air is used by green plants to make their food?
- 29. Which is the most abundant gas in our atmosphere?
- 30. Match the following:
- 1. Gas which supports burning
- A. Layer of air surrounding the earth

- 2. Weather cock
- B. Produced by burning of fuel
- 3. Atmosphere
- C. Shows the direction in whichthe air is moving.
- 4. Smoke
- D. Oxygen
- (A) 1-C, 2-A, 3-D, 4-B
- (B) 1-B, 2-D, 3-A, 4-C
- (C) 1-D, 2-C, 3-A, 4-B
- (D) 1-D, 2-C, 3-B, 4-A
- 31. What is the use of mucus and fine hair present inside our nostrils?
- (A) All animals have hair inside their nostrils.
- (B) Theytrap the dust particles we inhale while breathing.
- (C) Mucus keeps our nose moist.

Air Around us							4
(D) None of th	iese.						
32.Nitrogen a	nd oxygen toge	ether make up	nearly_		_% of air.		
(A) 100	(B) 99	(C) 98	(D) 50				
1. Air occupies 3. Air is a mixt (A) 1 & 3 these.	correct alterna s space. cure of gases. (B) 2 &	2. Air is trans 4. Wind is us 3	seful in w (C) All	the abov	e.	(D) None of	
34.The change	e of water vapo	ours into wate	er on coo	ling is cal	led	<u>.</u>	
(A) Evaporation (D) Liq	on uification	(B) Condens	ation		(C) Contraction	on	
35 wind.	_ is the metho	d of separatir	ng husk a	nd wheat	grains by th	e action of	
(A) Handpickir Threshing	ng	(B) Sieving		(C) Wini	nowing	(D)	
36.When a bu	rning candle is	covered with	a glass t	umbler, v	we observe th	nat:	
(A) It continue (C) It goes off	es to burn. after sometime	<u>.</u>			re brightly. h a faint flam	e.	
	er is heated, bu	ibbles are see	n. This s	hows tha	t	is dissolved in	
water. (A) Air	(B) Sal	t (C) M	1ineral	(	(D) Sugar		
38.What happ	ens when air c	omes in conta	act with	a cooler s	urface?		
(A) It gets coo (C) Water dro	led. plets are seen.		gets soli Iothing h				
39.Why do mo	ountaineers ca	ry oxygen cyl	inders w	ith themî	?		
(B) Amount of	high mountains carbon dioxide ers help them t nese.	e is more on h	nigh mou				
40.The proces	s by which plai	nts make thei	r own fo	od and pr	oduce oxyge	n is known as:	

Air Around us

5

(A) Respiration (B) Combustion (C) Photosynthesis (D) Oxidation 41. Plants consume gas for respiration. (A) Carbon dioxide (B) Oxygen (D) (C) Water vapours Hydrogen 42. The presence of \_\_\_\_\_\_ in air is important for water cycle in nature. (A) Carbon dioxide (B) Water (C) Oxygen (D) Water vapours 43. Factories have long chimneys so that: (A) The smoke can be carried away from us. (B) They look more beautiful. (C) Smoke can not come out of small chimneys. (D) All of the above. 44. The gas which does not support burning and occupies four fifth of the spaceof air is: (C) Carbon dioxide (A) Hydrogen (B) Oxygen (D) Nitrogen 45. The layer of air surrounding the earth is called: (A) Atmosphere (B) Hydrogen (C) Oxygen (D) None of these. 46. The component of air that supports burning is: (A) Nitrogen (B) Carbon (C) Oxygen (D) Water vapours 47. When the open end of an empty bottle is pushed inside the water :-1. Water rushes into the bottle. 2. The water enters the bottle when it is tilted slightly. 3. Bubbles are seen coming out of the bottle when the bottle is tilted. 4. The bottle remains empty. (A) 1 only (B) 2and 3 (C) 3 and 4 (D) All the above. 48. Why do we feel suffocated in a closed room? 1. Due to lack of oxygen. 2. Carbon dioxide gets accumulated in the room. 3. Due to the dust particles. 4. Due to presence of nitrogen. (A) 1 & 2 (B) 3 & 4 (C) 1 and 4 (D) 2 and 3 49. How do the burrowing animals breathe?

Air Around us

6

(A) They come out of the b present in the spaces in soi (C) They do not breathe.			(B) They take in the	air
50.Why do earthworms co	ne out from the	ir burrows durii	ng rainy season?	
(A) Due to heat. Due to cold.				(B)
(C) Because water fills their None of these.	burrows and th	ey come out fo	r breathing.	(D)
51.Plants use gas (A) Oxygen, Carbon dioxide (C) Oxygen, Oxygen	(B) Ca		xygen	
52.Select the correct altern (i) Air plays an important ro (ii) Nitrogen and oxygen ga (iii) Chimneys of factories s (iv) Oxygen supports burnin	ole in water cycle ses together ma hould not be lon	ke up 99% of th	ne air.	
(A) 1 & 2 (C) 1, 2 and4	(B) 1 & 4 (D) All of the	above.	~	
<ul><li>53. The balance of oxygen a</li><li>(A) Plants only.</li><li>(C) Animals and plants both</li></ul>		(B) Ani	d in the atmosphere mals only. fixed amountof air.	due to:
54.The windmill used to dr to:	aw water from t	ube wells and to	o run flour mills is ro	tated due
(A) Water (B) W	/ind	(C) Oxygen	(D) All of the	ese.
<2M> 55.How do aquatic animals	take oxygen for	respiration?		
56.Mention two uses of air	?			
57. What is the composition	of air?			
58.Why do mountaineers of	arry oxygen cylii	nder with them	?	
50 Evnlain why air is consid	lered a mivture?	1		

7

Air Around us			
60.Is winnowing possible inside a closed room? Give reasons along with your answer.			
61. How can you say that air contains dust particles?			
62. How is carbon dioxide put into air?			
63. Why is it harmful to breath through our mouth?			
64. How are plants and animals inter dependent on each other?			
65. How do organisms living in the soil respires?			
66. What is the composition of air?			
<3M> 67.What are the uses of wind mill?			
68.Write three properties of air			
69.Give reasons why			
<ul><li>a) The transparent glass of windows, if not wiped regularly, appears hazy?</li><li>b) During fire accident, one is advised to warp a woolen blanket over a burring object.</li></ul>			
c) A lump of cotton wool shrinks in water?			
<5M> 70.List five activities that are possible due to presence of air.			
71. Give an experiment to show that oxygen Supports burning.			