Grouping Materials and their Separation

Practice Exercise

- 1. To describe how much matter is there in something, we use the term:
 - (a) Weight
- (b) Length
- (c) Mass
- (d) Volume
- (e) None of these
- 2. Which of the following statements is correct? (a) An object will float on the surface of water when its density is less than that of water in which it is placed.
 - (b) An object will float when its density is more than that of water in which it is placed.
 - (c) Both (a) and (b) are correct
 - (d) Both (a) and (b) are incorrect
 - (e) None of these
- 3. Which among the following is an element?
 - (a) Water
- (b) Sugar
- (c) Hydrogen
- (d) Washing soda
- (e) None of these
- 4. Which of the following is not a matter?
 - (a) Water
- (b) Heat
- (c) Air
- (d) Plant
- (e) None of these
- **5**. Which of the following is not soluble with water?
 - (a) Copper sulphate
 - (b) Alcohol
 - (c) Wax
 - (d) Potassium permanganate
 - (e) None of these
- 6. Which of the following statements is correct?
 - (a) Mass of an object varies at different places.
 - (b) Weight of an object varies at different places.
 - (c) Both mass and weight remains constant.
 - (d) Both mass and weight varies at different places.
 - (e) None of these

- **7**. Which of the following gases does not dissolve in water?
 - (a) Oxygen
- (b) Carbon dioxide
- (c) Methane
- (d) Ammonia
- (e) None of these
- 8. Hand picking method is effective in:
 - (a) Gaseous mixture
- (b) Solid mixture
- (c) Liquid mixture
- (d) All the above
- (e) None of these
- 9. Which of the following is essential for performing winnowing?
 - (a) Soil
- (b) Wind
- (c) Water
- (d) All the above
- (e) None of these
- **10**. Density of an object refers to:
 - (a) Product of mass and volume.
 - (b) Addition of mass and volume.
 - (c) Mass per unit temperature.
 - (d) Mass per unit volume.
 - (e) None of these
- 11. A basket containing the following materials:
 - i. Iron sheet
- ii. Glass tumbler
- iii. Tissue paper
- iv. Lens of spectacles Which of the above material is transparent?
- (a) i and ii
- (b) ii and iv
- (c) ii and iii
- (d) i and iv
- (e) None of these
- **12**. Match the following:

Column A		Column B		
(i)	(i) Metals (A) Dull appea		Dull appearance	
(ii)	Ground glass	(B)	Transparent	
(iii)	Wood	(C)	Lustrous	
(iv)	Alcohol	(D)	Translucent	

- (a) (i-D), (ii-C), (iii-A), (iv-B)
- (b) (i-A), (ii-D), (iii-B), (iv-C)
- (c) (i-C), (ii-D), (iii-A), (iv-B)
- (d) (i-B), (ii-C), (iii-D), (iv-A)
- (e) None of these

(c) Vinegar (d) Common salt (e) None of these 16. Which one among the following materials will not float on the surface of water? (a) Saw-dust (b) Ice (c) Petrol (d) Silver (e) None of these 17. The basic unit that makes up all matter. (a) Substance (b) Element (c) Atom (d) Compound (e) None of these 18. Which of the following is not a property of wood? (a) Hardness (b) Dull appearance (c) Lustrous (d) Opaqueness (e) None of these 19. The difference in the taste of different compounds is because: (a) They have different colours. (b) Their molecules are different from each other. (c) Their molecules are same. (d) All the above (e) None of these (c) Evaporation (d) Filtration (e) None of these 23. Filtered tea in an example of: (a) Element (b) Homogeneous mixture (c) Heterogeneous mixture (d) Soluble impurity (e) None of these 24. While preparing pulao, Ragini four husk was mixed with the raw rice. I which of the following methods separate husk from rice? (a) Threshing (b) Winnowing (c) Filtration (d) Sieving (d) Distillation (e) None of these 25. Petrol and kerosene can be separate process of: (a) Filtration (b) Winnowing (c) Sieving (d) Distillation (e) None of these 26. While rinsing rice in the kitchen with before cooking, which process generally to separate rice from water (a) Decantation (b) Filtration (c) Filtration (d) Distillation (e) None of these				
(a) Water (b) Sand (c) Sodium (d) Washing soda (e) None of these 15. Which of the following is composed of carbon, hydrogen and oxygen? (a) Water (b) Washing soda (c) Vinegar (d) Common salt (e) None of these 16. Which one among the following materials will not float on the surface of water? (a) Saw-dust (b) Ice (c) Petrol (d) Silver (e) None of these 17. The basic unit that makes up all matter. (a) Substance (b) Element (c) Atom (d) Compound (e) None of these 18. Which of the following is not a property of wood? (a) Hardness (b) Dull appearance (c) Lustrous (d) Opaqueness (e) None of these 19. The difference in the taste of different compounds is because: (a) They have different colours. (b) Their molecules are different from each other. (c) Their molecules are different from each other. (c) Which of the following is not an element? (a) Oxygen (b) Zinc	3.	ion of substances? removing undesirable e harmful components.		
carbon, hydrogen and oxygen? (a) Water (b) Washing soda (c) Vinegar (d) Common salt (e) None of these 16. Which one among the following materials will not float on the surface of water? (a) Saw-dust (b) Ice (c) Petrol (d) Silver (e) None of these 17. The basic unit that makes up all matter. (a) Substance (b) Element (c) Atom (d) Compound (e) None of these 18. Which of the following is not a property of wood? (a) Hardness (b) Dull appearance (c) Lustrous (d) Opaqueness (e) None of these 19. The difference in the taste of different compounds is because: (a) They have different colours. (b) Their molecules are different from each other. (c) Their molecules are same. (d) All the above (e) None of these separate soluble impurities? (a) Decantation (b) Sediment (c) Evaporation (d) Filtration (e) None of these 23. Filtered tea in an example of: (a) Element (b) Homogeneous mixture (c) Heterogeneous mixture (c) Heterogeneous mixture (c) Heterogeneous mixture (d) Soluble impurity (e) None of these 24. While preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four husk was mixed with the raw rice. I while preparing pulao, Ragini four hus	4.	obtaining the pure		
will not float on the surface of water? (a) Saw-dust (b) Ice (c) Petrol (d) Silver (e) None of these 17. The basic unit that makes up all matter. (a) Substance (b) Element (c) Atom (d) Compound (e) None of these 18. Which of the following is not a property of wood? (a) Hardness (b) Dull appearance (c) Lustrous (d) Opaqueness (e) None of these 19. The difference in the taste of different compounds is because: (a) They have different colours. (b) Their molecules are different from each other. (c) Their molecules are same. (d) All the above (e) None of these (a) Element (b) Homogeneous mixture (c) Heterogeneous mixture (c) Heterogeneous mixture (d) Soluble impurity (e) None of these 24. While preparing pulao, Ragini four husk was mixed with the raw rice. I which of the following methods separate husk from rice? (a) Threshing (b) Winnowin (c) Filtration (d) Sieving (e) None of these 25. Petrol and kerosene can be separate process of: (a) Filtration (b) Winnowin (c) Sieving (d) Distillation (c) Sieving (d) Distillation (c) Southe impurity (e) None of these	5.	rities? (b) Sedimentation		
(a) Substance (b) Element (c) Atom (d) Compound (e) None of these which of the following is not a property of wood? (a) Hardness (b) Dull appearance (c) Lustrous (d) Opaqueness (e) None of these (a) The difference in the taste of different compounds is because: (a) They have different colours. (b) Their molecules are different from each other. (c) Their molecules are same. (d) All the above (e) None of these (a) Oxygen (b) Zinc While preparing pulao, Ragini four husk was mixed with the raw rice. which of the following methods separate husk from rice? (a) Threshing (b) Winnowin (c) Filtration (d) Sieving (e) None of these (a) Thereshing (b) Winnowin (c) Filtration (c) Sieving (d) Distillation (e) None of these (b) Winnowing (d) Distillation (c) Winnowing (d) Evaporate (e) None of these	6.	(a) Element(b) Homogeneous mixture(c) Heterogeneous mixture(d) Soluble impurity		
18. Which of the following is not a property of wood? (a) Hardness (b) Dull appearance (c) Lustrous (d) Opaqueness (e) None of these 25. Petrol and kerosene can be separate process of: (a) Filtration (b) Winnowing (c) Filtration (c) Sieving (e) None of these 25. Petrol and kerosene can be separate process of: (a) Filtration (b) Winnowing (c) Sieving (d) Distillation (e) None of these 26. While rinsing rice in the kitchen with before cooking, which process generally to separate rice from water (a) Decantation (b) Filtration (c) Winnowing (d) Evaporate (e) None of these 26. While rinsing rice in the kitchen with before cooking, which process generally to separate rice from water (a) Decantation (b) Filtration (c) Winnowing (d) Evaporate (e) None of these	7.	While preparing pulao, Ragini found some husk was mixed with the raw rice. By using which of the following methods she can		
process of: (a) Filtration (b) Winnowing (d) Distillation (e) None of these (b) Their molecules are different from each other. (c) Their molecules are same. (d) All the above (e) None of these (e) None of these (f) Their molecules are same. (g) None of these (g) None of these (g) None of these (g) Pocartation (g) Filtration (g) Winnowing (g) Evaporate (g) None of these (h) Filtration (g) Filtration (g) Winnowing (g) None of these (g) None of these (h) Filtration (g) Filtration (g) Winnowing (g) None of these	8.	(b) Winnowing(d) Sieving		
other. (c) Their molecules are same. (d) All the above (e) None of these (a) Oxygen (b) Zinc While rinsing rice in the kitchen with before cooking, which process generally to separate rice from water (a) Decantation (b) Filtration (c) Winnowing (d) Evaporate (e) None of these	9.	an be separated by the (b) Winnowing (d) Distillation		
(a) Oxygen (b) Zinc		(c) Winnowing (d) Evaporation		
(e) None of these from sand. (a) Glass (b) Winnowii (c) Beaker (d) Sieve	20.	(b) Winnowing fan		

28.	Few steps are given below to separate salt from sand. Arrange the given steps in a correct sequence. i. Decantation is done. ii. Water is added to the mixture of sand and salt. iii. Stir the mixture of salt, sand and water. iv. Evaporation is done. (a) i, ii, iii, iv. (b) iii, iv, i, ii	35.	A mixture containing saw-dust and iron nails Iron-nails can be separated from saw-dust by using: (a) Filtration method (b) Distillation method (c) Magnetic separation (d) Decantation method (e) None of these	
	(c) ii, iii, i, iv (d) ii, i, iv, iii (e) None of these	36.	The maximum amount of a substance who can be dissolved in 100 grams of water a given temperature, is known as	at a
29.	After harvesting of crops is separated from grain by winnowing. (a) Stalk (b) Chaff (c) Water (d) Flour (e) None of these		substance. (a) Solution (b) Solubility (c) Availability (d) Deficiency (e) None of these	
30.	Solubility of most of the solids with the increase in temperature. (a) Decrease (b) Increase (c) Remains the same (d) Is not affected (e) None of these	37.	Water is known as universal solvent becaut (a) It is colourless. (b) It dissolves many substances in it. (c) It is odourless. (d) It does not dissolve any substance in it. (e) None of these	
31.	Which of the following processes is used to separate insoluble impurities? (a) Evaporation (b) Distillation (c) Filtration (d) Both (a) and (c) (e) None of these	38.	Which process is used to separate butter framilk? (a) Filtration (b) Loading (c) Sieving (d) Churning (e) None of these	om
32.	Difference in, is utilizes in the process of winnowing for the separation of two solids. (a) Shape (b) Size (c) Weight (d) Colour (e) None of these	39.	Which shape of filter paper is preferred the process of filtration? (a) Square shape (b) Cubical shape (c) Rectangular shape (d) Conical shape (e) None of these	for
33.	The process which is used to increase the rate of sedimentation by helping the suspended particles to settle down rapidly is called: (a) Threshing (b) Loading (c) Filtration (d) Winnowing (e) None of these	40.	Metallic parts of a scooter from a heap waste materials can be collected with the h of: (a) Chlorine (b) Alum (c) Electromagnet (d) Sand (e) None of these	
34.	Which of the following is not a kind of filter? (a) Strainer (b) Wire-mesh (c) Glass beaker (d) Muslin cloth (e) None of these			

Answer Key							
1.	С	2. A	3. C	4. B	5. C		
6.	В	7. C	8. B	9. B	10. D		
11.	В	12. C	13 . C	14. C	15. C		
16.	D	17 . C	18. C	19. B	20. D		
21.	С	22. C	23 . B	24. B	25. D		
26.	A	27 . D	28. C	29. B	30. B		
31.	D	32. C	33. B	34 . C	35. C		
36.	В	37 . B	38 . D	39 . D	40 . C		