

1. Which of the following elements is not a metalloid?
- Boron
  - Silicon
  - Germanium
  - Tungsten
2. In tincture of iodine, find the solute and solvent?
- alcohol is the solute and iodine is the solvent
  - iodine is the solute and alcohol is the solvent
  - any component can be considered as solute or solvent
  - tincture of iodine is not a solution
3. Which of the following property does not describe a compound?
- It is composed of two or more elements
  - It is a pure substance.
  - It cannot be separated into constituents by physical means
  - It is mixed in any proportion by mass
4. Air is regarded as a mixture because:
- Its pressure may vary
  - Its temperature may change
  - Its volume changes under different conditions
  - Its composition may vary
5. Which of the following is a compound?
- Stainless steel
  - Bronze
  - Graphite
  - Hydrogen sulphide
6. Which of the following will show Tyndall effect?
- Milk
  - Salt solution
  - Vinegar
  - Sulphur in water
7. When iron and sulphur are heated at high temperature
- Black coloured **FeS** is formed
  - Mixture of iron and sulphur is obtained
  - Yellow coloured iron sulphide is formed
  - They do not heat.
8. Cloud is an example of
- liquid dispersed in a gas
  - solid dispersed in a gas
  - liquid dispersed in a solid
  - solid dispersed in a solid
9. Which of the following are homogeneous in nature?
- ice
  - wood
  - soil
  - air
- (1) and (3)
  - (2) and (4)
  - (1) and (4)
  - (3) and (4)
10. A non-metal having lustrous appearance is.
- Phosphorous
  - Iodine
  - sulphur
  - bromine
11. Which of the following solutions is/are not stable?
- True solutions
  - Colloidal solutions
  - Suspensions
  - None of the above
12. Pumice stone is an example of:
- Gel
  - Emulsion
  - Foam
  - Solid Foam
13. A saturated solution can be made unsaturated:
- Increasing temperature by heating
  - By adding more of the solvent
  - By adding more of the solute
  - Both **(A)** and **(C)**
14.  $20\text{cm}^3$  of acetone is added into water to make total volume of  $250\text{cm}^3$ . The percentage by volume in this solution is:
- 0.8%**
  - 7%**
  - 0.7%**
  - 8.0%**

15. 12 grams of potassium sulphate dissolves in 75 grams of water at  $60^{\circ}\text{C}$ . Its solubility at  $60^{\circ}\text{C}$  is:
- 16.0g
  - 1.6g
  - 0.16g
  - 16.6g
16. A 15% alcohol solution means
- 15ml alcohol and 85ml water
  - 15ml alcohol and 100ml water
  - 15ml water and 85ml alcohol
  - Can't say anything
17. Which of the following is not an organic compound:
- Urea
  - Ethanol
  - Marble
  - Sugar
18. False statement about mixture is
- Energy changes are not involved in the preparation of a mixture.
  - Mixture have a definite melting point and boiling point.
  - The composition of mixture is not definite
  - A mixture show the properties of all constituents present in it
19. Which of the following is/are mixture:
- Solution of copper sulphate
  - Brass and Bronze
  - Sulphur powder
  - Both (A) and (B)
20. Carbonated drinks contains:
- Carbon dioxide as a solvent.
  - Water as a solute.
  - Caustic soda.
  - None of these
21. If two lines intersected by a transversal, then each pair of corresponding angles so formed is "
- Equal
  - Complementary
  - Supplementary
  - None of these
22. Two parallel lines have :
- A common point
  - Two common point
  - No any common point
  - Infinite common points
23. An angle is  $14^{\circ}$  more than its complementary angle then angle is :
- $38^{\circ}$
  - $52^{\circ}$
  - $50^{\circ}$
  - None of these
24. The angle between the bisectors of two adjacent supplementary angles is :
- Acute angle
  - Right angle
  - Obtuse angle
  - None of these
25. If one angle of the triangle is equal to the sum of the other two then the triangle is :
- Acute a triangle
  - Obtuse triangle
  - Right triangle
  - None
26. X lies in the interior of  $\angle\text{BAC}$ . If  $\angle\text{BAC} = 70^{\circ}$  and  $\angle\text{BAX} = 42^{\circ}$  then  $\angle\text{XAC} =$
- $28^{\circ}$
  - $29^{\circ}$
  - $27^{\circ}$
  - $30^{\circ}$
27. Two angles whose measures are a & b are such that  $2a - 3b = 60^{\circ}$  then  $\frac{4a}{5b} = ?$  if they form a linear pair:
- 0
  - $\frac{8}{5}$
  - $\frac{1}{2}$
  - $\frac{2}{3}$

28. Which one of the following statements is not false :

- (a) If two angles forming a linear pair, then each of these angles is of measure  $90^\circ$
- (b) Angles forming a linear pair can both be acute angles
- (c) One of the angles forming a linear pair can be obtuse angle
- (d) Bisectors of the adjacent angles form a right angle

29. Which one of the following is correct:

- (a) If two parallel lines are intersected by a transversal, then alternate angles are equal
- (b) If two parallel lines are intersected by a transversal then sum of the interior angles on the same side of transversal is  $180^\circ$
- (c) If two parallel lines intersected by a transversal then corresponding angles are equal
- (d) All of these

30. At **4.24pm**, how many degrees has the hour hand of a clock moved from its position at noon ?

- (a)  $132^\circ$
- (b)  $135^\circ$
- (c)  $140^\circ$
- (d)  $145^\circ$

31. The sum of the exterior angles of a hexagon is -

- (a)  $360^\circ$
- (b)  $540^\circ$
- (c)  $720^\circ$
- (d) None of these

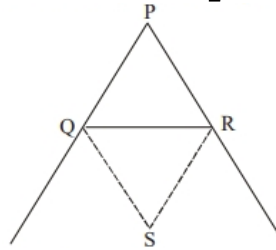
32. The sum of all the angles of a pentagon are -

- (a)  $360^\circ$
- (b)  $540^\circ$
- (c)  $720^\circ$
- (d) None of these

33. The angle that is three times as large as its complement is -

- (a)  $135^\circ$
- (b)  $67.5^\circ$
- (c)  $50.5^\circ$
- (d)  $45^\circ$

34. In this fig **QS** and **RS** are bisectors of exterior angles **Q** and **R**. The  $\angle QSR + \frac{\angle P}{2}$  is equal to-

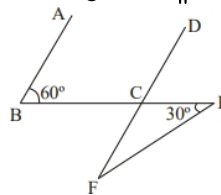


- (a)  $270^\circ$
- (b)  $180^\circ$
- (c)  $90^\circ$
- (d)  $60^\circ$

35. The angle which exceeds its complement by  $20^\circ$  is

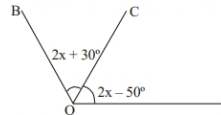
- (a)  $45^\circ$
- (b)  $55^\circ$
- (c)  $70^\circ$
- (d)  $110^\circ$

36. In the figure **AB**  $\parallel$  **CD**, then  $\angle EFD$  is equal to-



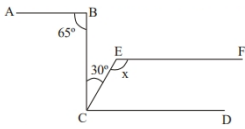
- (a)  $20^\circ$
- (b)  $25^\circ$
- (c)  $30^\circ$
- (d)  $35^\circ$

37. What value of **x** will make **AOB** a straight line?



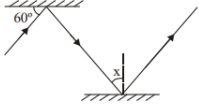
- (a)  $30^\circ$
- (b)  $50^\circ$
- (c)  $49^\circ$
- (d) None of these

38. What value of  $x$  will make  $CD \parallel EF$ , if  $AB \parallel CD$ ?



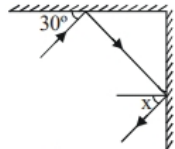
- (a)  $150^\circ$   
 (b)  $145^\circ$   
 (c)  $140^\circ$   
 (d)  $135^\circ$

39. The value of  $x$  in the following figure is-



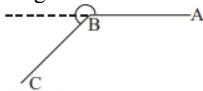
- (a)  $30^\circ$   
 (b)  $45^\circ$   
 (c)  $60^\circ$   
 (d) None of these

40. Find the value of  $x$  in the given figure.



- (a)  $30^\circ$   
 (b)  $35^\circ$   
 (c)  $40^\circ$   
 (d)  $45^\circ$

41. Angle  $ABC$  in the following figure is a/an

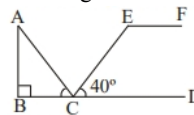


- (a) Acute angle  
 (b) Obtuse angle  
 (c) Reflex angle  
 (d) Straight angle

42. The sum of the angles at a point is -

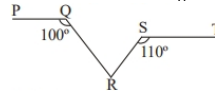
- (a)  $0^\circ$   
 (b)  $90^\circ$   
 (c)  $180^\circ$   
 (d)  $360^\circ$

43. In the figure if  $BD \parallel EF$ , then  $\angle CEF$  is -



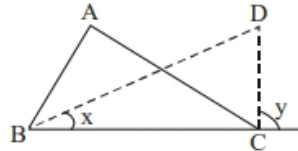
- (a)  $100^\circ$   
 (b)  $120^\circ$   
 (c)  $140^\circ$   
 (d)  $160^\circ$

44. In the figure  $PQ \parallel ST$ , then  $\angle QRS$  is equal to -



- (a)  $30^\circ$   
 (b)  $40^\circ$   
 (c)  $50^\circ$   
 (d)  $60^\circ$

45. In the adjoining figure,  $BD$  and  $CD$  are angle bisectors. Then, which of the following is true?



- (a)  $\angle D = \frac{1}{2} \angle A$   
 (b)  $\angle x + \angle y = \angle A + \angle D$   
 (c)  $\angle D = \frac{\angle x + \angle y}{2}$   
 (d) All of the above

46. Which of the following is true?

- (i) A triangle can have two right angles.  
 (ii) A triangle can have all angles less than  $60^\circ$   
 (iii) A triangle can have two acute angles
- (a) Only (ii)  
 (b) Only (i)  
 (c) Only (iii)  
 (d) All are true

47. If two angles are complementary of each other, then each angle is :

- (a) An Obtuse angle  
 (b) A Right angle  
 (c) An Acute angle  
 (d) A supplementary angle.

48. Two angles whose measures are  $a$  and  $b$  such that  $2a - 3b = 60^\circ$  then  $5b = ?$ , if they form a linear pair :

- (a)  $120^\circ$
- (b)  $300^\circ$
- (c)  $60^\circ$
- (d) None of these

50. There are four lines in a plane no two of which are parallel. The maximum number of points in which they can intersect is :

- (a) 4
- (b) 5
- (c) 6
- (d) 7

49. If two parallel lines are intersected by a transversal then the bisectors of the interior angles form a :

- (a) Rhombus
- (b)  $\parallel$  gm
- (c) Square
- (d) Rectangle

1. Answer: d

**Solution**

**Tungsten**

2. Answer: b

**Solution**

iodine is the solute and alcohol is the solvent

3. Answer: d

**Solution**

It is mixed in any proportion by mass.

4. Answer: d

5. Answer: d

6. Answer: a

7. Answer: a

8. Answer: a

9. Answer: c

10. Answer: b

11. Answer: c

12. Answer: d

13. Answer: a, b

14. Answer: d

15. Answer: a

16. Answer: a

17. Answer: c

18. Answer: b

19. Answer: d

20. Answer: d

21. Answer: d

22. Answer: c

23. Answer: b

24. Answer: b

25. Answer: c

26. Answer: a

39. Answer: a

27. Answer: b

40. Answer: a

28. Answer: c

41. Answer: c

29. Answer: d

42. Answer: d

30. Answer: a

43. Answer: c

31. Answer: a

44. Answer: a

32. Answer: b

45. Answer: a

33. Answer: b

46. Answer: c

34. Answer: c

47. Answer: c

35. Answer: b

48. Answer: b

36. Answer: c

49. Answer: d

37. Answer: b

50. Answer: c

38. Answer: b