

COMPLETION

PISAM Review Answer Section

MULTIPLE CHOICE

1. ANS: A
2. ANS: C
3. ANS: B
4. ANS: D
5. ANS: D
6. ANS: C
7. ANS: C
8. ANS: A
9. ANS: B
10. ANS: C
11. ANS: D
12. ANS: B
13. ANS: C
14. ANS: B
15. ANS: A
16. ANS: C
17. ANS: A

PTS

24. ANS: the spaces between the particles are very large

PTS: 1

25. ANS: physical

PTS: 1

26. ANS: went down by 15 °C

PTS: 1

27. ANS: All matter is made of particles.

PTS: 1

28. ANS: All particles in one material are identical. Particles in different materials are different.

PTS: 1

29. ANS: There are attractive forces between all particles.

PTS: 1

30. ANS: The spaces between the particles are a lot larger than the particles themselves.

PTS: 1

31. ANS: Heat energy speeds up the movement of particles while a lack of energy slows them down.

PTS: 1

18. ANS: down

PTS: 1

19. ANS: less

PTS: 1

20. ANS: weaker

PTS: 1

21. ANS: attractive forces

PTS: 1

22. ANS: add salt

PTS: 1

23. ANS: melting point

PTS: 1

MATCHING

32. ANS: I

33. ANS: G

34. ANS: A

35. ANS: B

36. ANS: J

37. ANS: C

38. ANS: D

39. ANS: H

40. ANS: E

41. ANS: F

SHORT ANSWER

42. ANS:

a) The bonds in chocolate are weaker, so the heat from your pocket melts them easier.

b) The sugar molecules move faster when they are hot so they spread out more quickly in the hot tea. In cold water the particles slow down so they spread out more slowly.

c) The cold air slows down the air particles in the tire so it takes up less space and looks flat. Driving heats them up so the air expands and the tire gets fuller

PTS: 1

43. ANS:

$$54\text{g}/2\text{ cm}^3 = 27\text{ g/cm}^3$$

PTS: 1

44. ANS:

$$8.1\text{ g/cm}^3 \times 10\text{ cm}^3 = 81\text{ g}$$

PTS: 1

45. ANS:

i) Sample 1 melts at -7.2 degrees

ii) Sample 3 has the weakest bonds because its melting and boiling points are lowest

iii) Sample 1 is Bromine

iv) Sample 2 is water

PTS: 1