11. A method of separation of components from its solution using Distribution law is

A. Sublimation
B. Crystallisation
C. Solvent extraction
D. Distillation

Answer: Option C

12. A real gas obeying vander waals equation will resemble the ideal gas if

A. Both a and b are small
B. Both a and b are large
C. a is small and b is large
D. a is large and b is small

Answer: Option A

13. Equal masses of methane and oxygen are mixed in empty container at 250?(C) The fraction of total pressure exerted by oxygen is

A. one / seventeen
B. sixteen / seventeen
C. one / three
D. two / three

Answer: Option C

14. Plasma is used in

A. Fluorescent bulb
B. Neon signs
C. Lasers
D. All of these

Answer: Option D

15. The molecules of CO2 in dry ice form

A. Ionic crystal
B. Covalent crystal
C. Molecular crystal
D. Any type of crystal

Answer: Option C

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16. Which of the following is pseudo solid

A. CaF2
B. NaCl
C. Glass
D. Diamond

Answer: Option C

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17. Only London dispersion forces are present among the

A. Molecules of water in liquid state
B. Atoms of helium in gaseous state at high temperature
C. Molecules of hydrogen chloride gas
D. Molecules of solid iodine

Answer: Option D

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18. Bohrs model is contradicted by

A. Plancks theory
B. Dual nature of matter
C. Heisenbergs uncertainty principle
D. All of these

Answer: Option C

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19. Quantum number values for 3p orbitals are

A. n=3 l=2
B. n=3 l=0
C. n=3 l=1
D. n=3 l=3

Answer: Option C

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20. When fast neutron strike the nucleus of nitrogen the particles ejected are

A. ? - particles
B. ? - particles
C. ? - rays
D. X - rays

Answer: Option A

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