11. The oxidation state of transition elements is usually

A. variable
B. constant
C. single
D. infinite

Answer: Option A

12. When light is exposed to transition element then electrons jump from lower orbitals to higher orbitals in

A. orbitals of f-subshell
B. orbitals of d-subshell
C. orbitals of p-subshell
D. both a & b

Answer: Option D

13. Non-stoichiometric compounds of transition elements are called

A. hydrates
B. hydrides
C. binary compounds
D. interstitial compounds

Answer: Option D

14. When a compound of transition element is dissolved in a solution of salt then it produces

A. simples ions
B. complex ions
C. double salts
D. strong anions

Answer: Option B

15. The specie which donates electrons to central metal atom in coordination sphere is called

A. anion
B. cation
C. Ligand is positively charged
D. acid

Answer: Option C

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16. The species which donate two electron pairs in a coordination compound is called

A. ligand
B. mono-dentate ligand
C. poly-dentate ligand
D. bi-dentate ligand

Answer: Option **D**

17. Which of the following can form a chealate

A. ammine
B. oxalato
C. carbonyl
D. cyano

Answer: Option **B**

18. The central atom along with ligands is called

A. complex ion
B. coordination sphere
C. ligand
D. complex compound

Answer: Option **B**

19. The compound or complex ion which has a ring in its structure

A. polydentate ligand
B. chelate
C. monodentate ligand
D. hydrate

Answer: Option **B**

20. In complex compounds the oxidation number is written in

A. English
B. Greek
C. Roman numeral
D. Hebrew

Answer: Option **C**

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