



Octahedral classes, kharadi
2nd floor, yashwant plaza, near bank of India,

Class 10 - Science

DPP periodic classification of element

Maximum Marks: 35

Time Allowed: 2 hours

General Instructions:

ANSWER ALL QUESTIONS

Section A

1. An element P belongs to the second period and group 13. What is the formula of its oxide? 1
 - a) P_2O_3
 - b) PO
 - c) P_2O
 - d) P_2O_5
2. What is the nature of an element having atomic number 20? 1
 - a) metallic
 - b) metalloid
 - c) anomalous nature
 - d) non metallic
3. How does the valency vary in going down a group? 1
 - a) remains the same
 - b) decreases
 - c) increases
 - d) first increases, then decreases
4. In Newlands law of octaves elements are arranged in order of 1
 - a) decreasing atomic number
 - b) decreasing atomic masses
 - c) increasing atomic masses
 - d) increasing atomic number
5. How many elements did Mendeleev classify? 1
 - a) 30.0
 - b) 63.0
 - c) 92.0
 - d) 60.0
6. In the modern periodic table which are the metals among the first 10 elements? 1
 - a) Li, B
 - b) Li, Be
 - c) B, Be
 - d) Be, C
7. Element X forms a chloride with the formula XCl_2 which is a solid at a high melting point. X would most likely be in the same group of the Periodic Table as 1

- a) Na
 - b) Si
 - c) Mg
 - d) Al

8. How many groups and periods are present in the modern periodic table? 1

 - a) 7 groups, 7 periods
 - b) 18 groups, 7 periods
 - c) 8 groups, 7 periods
 - d) 9 groups, 9 periods

9. Which group elements are called transition metals? 1

 - a) Group 18
 - b) Groups 3-12
 - c) Groups 1 and 2
 - d) Groups 13-17

10. Electropositive character of elements in a period _____ from left to right. 1

 - a) Increases
 - b) first increases, then decreases
 - c) remains the same
 - d) decreases

11. How many elements are placed in lanthanide and actinide series? 1

 - a) 14, 16
 - b) 15, 15
 - c) 14, 14
 - d) 15, 16

12. The number of periods in the long form of the periodic table is 1

 - a) 6
 - b) 7

The horizontal rows of elements in a periodic table are called periods and there are 7 periods in the long form of periodic table.

 - c) 10
 - d) 18

13. Which of the following elements has maximum metallic character? 1

 - a) Li
 - b) N
 - c) P
 - d) Na

14. Which elements are called as synthetic elements? 1

 - a) beyond atomic number 89
 - b) beyond atomic number 92
 - c) beyond atomic number 56
 - d) beyond atomic number 90

15. Which of the following is the most reactive halogen? 1

 - a) F
 - b) I
 - c) Br
 - d) Cl

16. Which of the following statements is not correct about the trends when going from left to right across the periods of the Periodic Table? 1

- a) 2. The number of valance electrons increases b) 3. The atoms lose their electrons more easily
- c) 4. The oxides becomes more acidic d) 1. The elements become less metallic in nature
17. Which group of periodic table does Ge belongs to ? 1
- a) Group 10 b) Group 14
- c) Group 13 d) Group 4
18. Nitrogen and phosphorus belong to the group 15 of the periodic table. Which of these will be more electronegative? 1
- a) Nitrogen b) Both are equally electronegative
- c) None of them are electronegative d) Phosphorus
19. What property of all elements in the column of the periodic table as fluorine have in common? 1
- a) All are electronegative elements b) All have valency 1
- c) All are electronegative elements and have valency 1 d) All are electropositive
20. The family of elements having seven electrons in the outermost shell is _____. 1
- a) Noble gases b) Alkaline earth metals
- c) Alkali metals d) Halogens
21. State Periodic Law on which the Modern Periodic Table is based. 1
22. Name the families to which the first and the last element in each period belong. 1
23. Which is the main difference between Mendeleev's periodic table and long form of periodic table? 1
24. How many electrons can be present in the valence shells of metal atoms and non-metal atoms? 1
25. Out of Mg and Al, which is more metallic? 1
26. In the Modern Periodic Table, which are the metals among the first ten elements? 1
27. Name two elements you would expect to show chemical reactions similar to magnesium. What is the basis for your choice? 1
28. State Newlands' Law of Octaves. 1

29. How many periods and groups are present in the long form of periodic table? **1**
30. What is the name given to the horizontal row in the periodic table? **1**
31. What is the valency of nitrogen? **1**
32. Give one reason for keeping both oxygen and sulphur in the same group of the periodic table. **1**
33. Are the chemical properties of group 1 and group 18 elements similar? **1**
34. What is the relation between Na and Al? **1**
35. To which group noble gas belong in the Modern Periodic table? **1**