**Karan Arora**  **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **SCIENCE TEST – 2 Max Marks : 30**

**Class = 10th CODE : A**

1. Which of the following metal has highest melting point ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sodium | b) Tungsten | c) silver | d) Copper |

1. Which of the following oxides of iron would be obtained on prolonged reaction of iron with steam ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Fe2O3 & Fe3O4 | b) Fe3O4 | c) Fe2O3 | d) FeO |

1. The only metal which is liquid at room temperature is ……………… .

|  |  |  |  |
| --- | --- | --- | --- |
| a) Silver | b) Mercury | c) Gold | d) Sodium |

1. To observe Tyndall effect, the size of the scatterer must be smaller than the wavelength of light

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. It is really true or a myth that stars appear higher than they actually are? If yes, then which phenomenon is responsible for it ?

|  |  |
| --- | --- |
| a) Myth | b) Yes, dispersion of light |
| c) Yes, refraction of light | d) Yes , atmospheric refraction of light |

1. Copper sulphate solution can be safely kept in a container made of silver and lead

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. Non-metal oxides reacts with water to form …………………………. .

|  |  |  |  |
| --- | --- | --- | --- |
| a) Hydrogen | b) acids | c) bases | d) salts |

1. The clear sky appear blue, because

a) blue light gets absorbed in the atmosphere

b) violet and blue lights get scattered more than lights of all others colours by the atmosphere

c) lights of all others colours is scattered more than the violet and blue lights by the atmosphere

d) ultraviolet radiations are absorbed in the atmosphere

1. ……………………….. gas is evolved when Mn reacts with very dilute HNO3 .

|  |  |  |  |
| --- | --- | --- | --- |
| a) N2O | b) NO2 | c) H2 | d) NO |

1. Metal and non-metal combine by gaining or losing electrons.

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. The bluish colour of water in deep sea is due to

a) absorption of light by the sea

b) scattering of light

c) reflection of sky in water

d) less the presence of algae and other plants found in water

1. Which of the following metals exists in their native state in nature ?

|  |  |  |  |
| --- | --- | --- | --- |
| I. Au | II. Ag | III. Cu | IV. Zn |
| a) I & II | b) II & III | c) II & IV | d) III & IV |

1. Prism is a Homogeneous transparent medium consisting of two rectangular and three triangular faces.

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. Aqueous solution of CsO2 is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Acidic | b) Basic | c) Amphoteric | d) Neutral |

1. When white light is incident on a thin walled hollow glass prism, the colour of the emergent light will be

|  |  |  |  |
| --- | --- | --- | --- |
| a) white | b) red | c) green | d) yellow |

1. What is the chemical formula of the compound formed when 12X24 combines with 9Y19 ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) XY | b) X2Y | c) XY2 | d) X2Y3 |

1. To recombine the spectrum to obtain white light, the dispersive prism and recombination prism should be in same position

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. Which of the following phenomenon of light are involved in the formation of a rainbow ?

|  |  |
| --- | --- |
| a) Refraction , dispersion and outer reflection | b) Refraction , dispersion and internal reflection |
| c) Reflection , refraction and dispersion | d) Dispersion , scattering and total internal reflection |

1. The colour of the white light deviated through the largest angle by a prism is …………….. .

|  |  |  |  |
| --- | --- | --- | --- |
| a) Yellow | b) Violet | c) Red | d) Green |

1. Which of the following reactions cannot occur ?

|  |  |
| --- | --- |
| a) 2 AgNO3 (aq) + Fe (s) → Fe(NO3)2 (aq) + 2 Ag (s) | b) CuSO4 (aq) + Zn (s) → ZnSO4 (aq) + Cu (s) |
| c) CuSO4 (aq) + 2 Ag (s) → Cu (s) + Ag2SO4 (aq) | d) 2 AgNO3 (aq) + Zn (s) → Zn(NO3)2 (aq) + 2 Ag (s) |

1. Twinkling of stars is due to atmospheric

a) dispersion of light by water droplets

b) refraction of light by different layers of varying refractive indices

c) scattering of light by dust particles

d) internal reflection of light by clouds

1. Column I Column II

|  |  |  |
| --- | --- | --- |
| (i) Twinkling of stars | | (a) Dispersion |
| (ii) Rainbow formation | | (b) internal reflection |
| (iii) White colour of clouds | | (c) Atmospheric refraction |
| (iv) Glittering of diamond | | (d) Scattering |
| a) (i) – (d) ; (ii) – (c) ; (iii) – (b) ; (iv) – (a) | | b) (i) – (a) ; (ii) – (d) ; (iii) – (c) ; (iv) – (b) | | |
| c) (i) – (c) ; (ii) – (a) ; (iii) – (d) ; (iv) – (b) | | d) (i) – (a) ; (ii) – (b) ; (iii) – (c) ; (iv) – (d) | | |

1. Stars near the horizon twinkle more than those that are overhead

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. Which of the following metal will not give H2 (g) with H2O ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cu + H2O → | b) Zn + H2O → | c) Na + 2 H2O → | d) Mg + H2O → |

1. Emergency signals and danger signals are red because red can travel long distance without being scattered.

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. The orange reddish appearance of the sun during sunrise and sunset is because of

|  |  |
| --- | --- |
| a) dispersion of light | b) total internal reflection of light |
| c) reflection of light from the earth | d) scattering of light |

1. Chlorine can displace Br and I from solution of their respective salts.

|  |  |  |  |
| --- | --- | --- | --- |
| a) True | b) False | c) Can’t say | d) partially true/false |

1. An element can react with oxygen to give a compound with high melting point. This compound is also water soluble. The element is likely to be

|  |  |  |  |
| --- | --- | --- | --- |
| a) Carbon | b) Iron | c) Calcium | d) Silicon |

1. The colour of headlights suitable for vehicle in foggy weather is

|  |  |  |  |
| --- | --- | --- | --- |
| a) green | b) violet | c) red | d) yellow |

1. When metal (Z) is added to dilute HCl solution, there is no evolution of gas, Metal (Z) is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) K | b) Na | c) Ag | d) Zn |

**Tarun Arora**  **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **SCIENCE TEST – 2 Max Marks : 30**

**Class = 10th CODE : B**

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b) refraction of light by different layers of varying refractive indices

c) scattering of light by dust particles

d) internal reflection of light by clouds

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1. Column I Column II

|  |  |  |
| --- | --- | --- |
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| c) (i) – (c) ; (ii) – (a) ; (iii) – (d) ; (iv) – (b) | | d) (i) – (a) ; (ii) – (b) ; (iii) – (c) ; (iv) – (d) | | |

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| c) CuSO4 (aq) + 2 Ag (s) → Cu (s) + Ag2SO4 (aq) | d) 2 AgNO3 (aq) + Zn (s) → Zn(NO3)2 (aq) + 2 Ag (s) |

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| --- | --- | --- | --- |
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| a) I & II | b) II & III | c) II & IV | d) III & IV |

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|  |  |  |  |
| --- | --- | --- | --- |
| a) XY | b) X2Y | c) XY2 | d) X2Y3 |

**Answers [Science test-2]**

**Human Eye & Metal and Non-metal Test [CLASS = 10th ]**

|  |  |
| --- | --- |
| **CODE : A** | **CODE : B** |
| 1. b | 1. b |
| 2. b | 2. c |
| 3. b | 3. a |
| 4. b | 4. d |
| 5. d | 5. c |
| 6. d | 6. b |
| 7. b | 7. b |
| 8. b | 8. b |
| 9. c | 9. b |
| 10. b | 10. a |
| 11. b | 11. c |
| 12. a | 12. b |
| 13. b | 13. d |
| 14. b | 14. a |
| 15. a | 15. b |
| 16. c | 16. b |
| 17. b | 17. c |
| 18. b | 18. a |
| 19. b | 19. d |
| 20. c | 20. b |
| 21. b | 21. d |
| 22. c | 22. c |
| 23. a | 23. b |
| 24. a | 24. b |
| 25. a | 25. a |
| 26. d | 26. b |
| 27. a | 27. b |
| 28. c | 28. b |
| 29. d | 29. a |
| 30. c | 30. c |