**I.P.S.Sr.Sec.School**

**Max Time : 1 hr** **Class : 10th Science Max Marks : 30**

**Unit Test Code : A**

1. Multiple choice questions : [ 1 X 6 = 6 ]
2. Which of the following is not a combination reaction ?

|  |  |
| --- | --- |
| a) CaO (s) + H2O (l) → Ca(OH)2 (aq) | b) C (s) + O2 (g) → CO2 (g) |
| c) CH4 (g) + 2 O2 (g) → CO2 (g) + 2 H2O (l) | d) 2 H2 (g) + O2 (g) → 2 H2O (l) |

1. The reaction in which heat is evolved are called

|  |  |
| --- | --- |
| a) thermal reactions | b) exothermic reactions |
| c) endothermic reactions | d) photochemical reactions |

1. Which part of alimentary canal receives bile from the liver?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Stomach | b) Small intestine | c) Large intestine | d) Oesophagus |

1. In which part of the alimentary canal food is finally digested?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Stomach | b) Mouth cavity | c) Large intestine | d) Small intestine |

1. The internal (cellular) energy reserve in autotrophs is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Glycogen | b) Protein | c) Starch | d) Fatty acid |

1. In the reaction ZnO + C → Zn + CO, the substance that acts as a reducing agent is

|  |  |  |  |
| --- | --- | --- | --- |
| a) ZnO | b) C | c) Zn | d) CO |

1. Write the name of ‘site’ and ‘pigment’ of photosynthesis. [ 1 ]
2. What protects the inner lining of stomach from Hydrochloric acid? [ 1 ]
3. Potassium chlorate (KClO3) on heating forms potassium chloride and oxygen. Write a balanced equation for this reaction. [ 1 ]
4. Why is energy required by an organism even during sleep? [ 1 ]
5. Why is photosynthesis considered an endothermic reaction ? [ 1 ]
6. Which is the largest gland in the human body? [ 1 ]
7. What is an oxidation reaction? Give an example of oxidation reaction. Is oxidation an exothermic or an endothermic reaction ? [ 2 ]
8. A solution of a substance ‘X’ is used for white washing [ 2 ]
9. Name the substance ‘X’ and write its formula.
10. Write the reaction of the substance ‘X’ named in (i) above with water.
11. Why is respiration considered as an exothermic reaction? Explain. [ 2 ]
12. Why does absorption of digested food occur mainly in the small intestine? [ 2 ]
13. Explain Photochemical phase of photosynthesis. [ 2 ]
14. Why are decomposition reactions called the opposite of combination reactions ? Write equations for these reactions. [ 2 ]
15. Balance the following chemical equation : [ 3 ]

|  |  |  |
| --- | --- | --- |
| a) Al + HCl → AlCl3 + H2 | b) Br2 + I – → Br –  + I2 | c) NaCl + AgNO3 → AgCl + NaNO3 |

1. Draw the diagram of alimentary canal of man and label the following parts :

Mouth , Oesophagus , stomach , Intestine [ 3 ]

**I.P.S.Sr.Sec.School**

**Max Time : 1 hr** **Class : 10th Science Max Marks : 30**

**Unit Test Code : B**

1. Multiple choice questions : [ 1 X 6 = 6 ]
2. The internal (cellular) energy reserve in autotrophs is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Glycogen | b) Protein | c) Starch | d) Fatty acid |

1. Which part of alimentary canal receives bile from the liver?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Stomach | b) Small intestine | c) Large intestine | d) Oesophagus |

1. Which of the following is not a combination reaction ?

|  |  |
| --- | --- |
| a) CaO (s) + H2O (l) → Ca(OH)2 (aq) | b) C (s) + O2 (g) → CO2 (g) |
| c) CH4 (g) + 2 O2 (g) → CO2 (g) + 2 H2O (l) | d) 2 H2 (g) + O2 (g) → 2 H2O (l) |

1. In the reaction ZnO + C → Zn + CO, the substance that acts as a reducing agent is

|  |  |  |  |
| --- | --- | --- | --- |
| a) ZnO | b) C | c) Zn | d) CO |

1. The reaction in which heat is evolved are called

|  |  |
| --- | --- |
| a) thermal reactions | b) exothermic reactions |
| c) endothermic reactions | d) photochemical reactions |

1. In which part of the alimentary canal food is finally digested?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Stomach | b) Mouth cavity | c) Large intestine | d) Small intestine |

1. Why is energy required by an organism even during sleep? [ 1 ]
2. Write the name of ‘site’ and ‘pigment’ of photosynthesis. [ 1 ]
3. Which is the largest gland in the human body? [ 1 ]
4. What protects the inner lining of stomach from Hydrochloric acid? [ 1 ]
5. Why is photosynthesis considered an endothermic reaction ? [ 1 ]
6. Potassium chlorate (KClO3) on heating forms potassium chloride and oxygen. Write a balanced equation for this reaction. [ 1 ]
7. Why does absorption of digested food occur mainly in the small intestine? [ 2 ]
8. What is an oxidation reaction? Give an example of oxidation reaction. Is oxidation an exothermic or an endothermic reaction ? [ 2 ]
9. Why is respiration considered as an exothermic reaction? Explain. [ 2 ]
10. Why are decomposition reactions called the opposite of combination reactions ? Write equations for these reactions. [ 2 ]
11. Explain Photochemical phase of photosynthesis. [ 2 ]
12. A solution of a substance ‘X’ is used for white washing [ 2 ]
13. Name the substance ‘X’ and write its formula.
14. Write the reaction of the substance ‘X’ named in (i) above with water.
15. Balance the following chemical equation : [ 3 ]

|  |  |  |
| --- | --- | --- |
| a) Al + HCl → AlCl3 + H2 | b) Br2 + I – → Br –  + I2 | c) NaCl + AgNO3 → AgCl + NaNO3 |

1. Draw the diagram of alimentary canal of man and label the following parts :

Mouth , Oesophagus , stomach , Intestine [ 3 ]