

ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI-54

Class : 7
Date: 24.02.2015

SUMMATIVE ASSESSMENT 2
SCIENCE

Marks: 90
Time: 2 Hours

Name: _____ Class & Sec. _____ R. No. _____

Note: All the answers should be done on the question paper itself.

I Multiple choice questions : (1x30=30)

- 1) Acid present in curd is _____
a) Acetic acid b) lactic acid c) citric acid d) hydrochloric acid
- 2) Dilute acids react with metals to form salt and _____ gas
a) H₂ b) O₂ c) CO₂ d) none of these
- 3) An oxidation reaction involves
a) addition of oxygen b) addition of oxygen and removal of hydrogen
c) addition of hydrogen and removal of oxygen d) addition of hydrogen
- 4) An arrow pointing downwards in a chemical reaction shows
a) evolution of gas b) oxidation c) displacement d) formation of precipitate
- 5) In insects exchange of gases takes place through
a) Spiracles b) gills c) lungs d) stomata
- 6) In plants exchange of gases take place through
a) Buds b) roots c) entire leaf surface d) stomata
- 7) The loss of water through the stomata is called
a) Wilting b) transpiration c) translocation d) transportation
- 8) Forests are called green lungs because they supply _____ to the atmosphere
a) O₂ b) CO₂ c) N₂ d) H₂O
- 9) Plants do not depend on animals for
a) Pollination b) food c) seed dispersal d) nutrients
- 10) The first link in a food chain is
a) Herbivores b) carnivores c) green plants d) none of these
- 11) The lowest layer in the understory of a forest is formed by
a) Shrubs b) herbs c) trees d) tall grass
- 12) _____ are primary consumers
a) producers b) herbivores c) carnivores d) non green plants
- 13) The primary source of energy in nature is
a) O₂ b) CO₂ c) fuels d) sun
- 14) Rainwater harvesting is done
a) to conserve ground water b) to reduce irrigation
c) for afforestation d) for industrialization
- 15) Which of the following cannot split light into its seven colours
a) diamond cut in a special way b) prism
c) convex lens d) water droplets suspended in air
- 16) A magnifying lens is a
a) plane mirror b)concave lens c) convex lens d)none of these

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- 17) A tornado is
a) a strong thunderstorm
b) the eye of a cyclone
c) rotating funnel of a high speed wind
d) a tsunami
- 18) As we go to higher altitudes the air pressure
a) Increases
b) decreases
c) remains same
d) expands
- 19) Increased wind speed results in
a) reduced air pressure
b) increased air pressure
c) air pressure doesn't change
d) expansion of air
- 20) A cyclone develops
a) over the land
b) over the sea
c) near the equator
d) at poles
- 21) During a thunderstorm, water droplets and ice crystals collide and produce
a) Lightning
b) rain
c) cyclone
d) wind
- 22) Yeast reproduces by
a) spore formation
b) sexual reproduction
c) vegetative reproduction
d) budding
- 23) Which of the following is dispersed by water?
a) Lotus
b) dandelion
c) pea
d) xanthium
- 24) The male and female reproductive cells are called
a) Zygote
b) gametes
c) pollination
d) fertilization
- 25) A complete flower has
a) only stamens
b) only pistil
c) both stamens and pistil
d) only petals and sepals
- 26) Fertilization means
a) fusion of male and female cells
b) transfer of pollens from anther to stigma
c) carrying of seeds by wind and water
d) explosion of fruits
- 27) Blood cells that protect our body from diseases are
a) RBC
b) WBC
c) platelets
d) all of these
- 28) The heart has a number of _____ that allows the blood to flow in one direction only
a) Valves
b) auricles
c) ventricles
d) septum
- 29) Which of these enable nutrients present in plants and animals to go back to the soil
a) Producers
b) primary consumers
c) secondary consumers
d) decomposers
- 30) Lateral inversion is seen in a
a) Plane mirror
b) convex mirror
c) concave mirror
d) lenses

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Note: All the answers should be done on the answer sheet.

- I Define and give one example : (1x6=6)
- a) Indicators
 - b) Exothermic reactions
 - c) Anaerobic respiration
 - d) Translocation
 - e) Rectilinear propagation of light
 - f) Afforestation
- II Write short answers in about 2-3 sentences : (1.5x8=12)
- a) Give any 3 uses of hydrochloric acid.
 - b) Give any 3 uses of calcium hydroxide.
 - c) Why does a base applied to your skin give relief from an ant bite ?
 - d) What role does transpiration play in the transportation of water in a plant ?
 - e) A convex rear view mirror is preferred over a plane mirror in a car. Why ?
 - f) How does planting trees help ground water conservation ?
 - g) Why should we not over water potted plants ?
 - h) Why is reproduction important?
- III Answer in 4-5 sentences of any 6 of the following : (2x6=12)
- a) Give any four methods used to prevent rusting.
 - b) What is a displacement reaction? What rule governs the displacement of an element from a compound? Give an example
 - c) Why do we sometimes suffer from muscle cramps while exercising?
How can you overcome the cramps?
 - d) What happens in a flower after fertilization?
 - e) What are the advantages of vegetative reproduction?
 - f) What are the reasons for the lowering of the water table in large cities?
 - g) Give any 4 methods used to conserve water.
- IV Give any two differences between: (any 6) (2x6=12)
- 1) Acids and bases
 - 2) Combustion and cellular respiration
 - 3) Arteries and veins
 - 4) Real and virtual image
 - 5) Renewable and nonrenewable resources
 - 6) Concave and convex mirror
 - 7) Asexual and sexual reproduction
- V Complete, balance and name the type of reaction: (2x5=10)
- a) $Mg + O_2 \rightarrow$ _____ (_____)
 - b) $CaO + H_2O \rightarrow$ _____ (_____)
 - c) $NaOH + H_2SO_4 \rightarrow$ _____ + _____ (_____)
 - d) $Na_2CO_3 + HCl \rightarrow$ _____ + _____ + _____ (_____)
 - e) $Zn + HNO_3 \rightarrow$ _____ + _____ (_____)
- VI
- 1) Draw a neat labeled diagram of the human urinary system (4)
 - 2) Draw the water cycle (4)
