

INTERNATIONAL INDIAN SCHOOL, DAMMAM

SUMMATIVE ASSESSMENT – II

MARCH – 2014

SUBJECT : GENERAL SCIENCE

TIME : 3 Hrs.

CLASS : VII

Max. Marks : 90

SET- A

General Instructions

1. Read all the questions carefully.
2. All the answers to be written on the answer sheet provided.
3. Total number of questions is 48

SECTION – A

I. Choose the correct answer from the following options:- (1x15 = 15M)

- 1) The thicker and shorter line in the symbol of a cell represents the _____ terminal.
a) Positive b) Negative c) Neutral d) None of these
- 2) The process of seeping of water into ground.
a) Aquifer b) Infiltration c) Filtration d) Irrigation
- 3) In _____ plants, seeds are dispersed by explosion.
a) Coconut b) Maple c) Xanthium d) Castor
- 4) Which one of these is a conductor of heat?
a) Plastic b) wood c) Copper d) Rubber
- 5) _____ is the point of attachment of leaf at node.
a) Eye b) Internode c) Bud d) Axil
- 6) A magnifying glass is a _____ lens.
a) Concave b) Convex c) Plane d) All the above
- 7) The gas needed by root cells to generate energy.
a) Nitrogen b) Oxygen c) Carbon di-oxide d) Helium
- 8) The white light composed of _____ colours.
a) 5 b) 6 c) 7 d) 8
- 9) The device used for measuring temperature of different objects.
a) Barometer b) Hydrometer c) Thermometer d) Lactometer
- 10) _____ mirror is used as side view mirror in vehicles.
a) Concave b) Convex c) Plane d) None of these
- 11) A tiny unicellular body protected by thick wall that grows when conditions become favourable.
a) Pistil b) Bud c) Spore d) Fragment

- 12) World water day is celebrated on _____.
- a) 23rd March b) 22nd May c) 22nd March d) 23rd May
- 13) Dark surface _____ more heat that falls on it.
- a) Reflects b) Absorbs c) Diverts d) None of these
- 14) The high melting point thin metal wire used in electric bulb.
- a) Element b) Filament c) Electromagnet d) All the above
- 15) The process of transfer of heat in solids.
- a) Conduction b) Convection c) Radiation d) Both b&c

SECTION – B

II. Name the following:- (1x4 = 4M)

- 16) The asexual means by which Spirogyra reproduce.
- 17) The vascular tissue for the transport of water and nutrients in plants.
- 18) Switches used in place of fuses which automatically turn off when current in a circuit exceeds the safe limit.
- 19) Small openings on the sides of the body of an insect.

III. Fill in the blanks:- (1x3 = 3M)

- 20) _____ in the soil indicates the presence of underground water.
- 21) _____ is the smallest structural and functional unit of an organism.
- 22) In clinical thermometer, _____ prevents mercury level from falling on its own.

IV. Rewrite the false statements correctly:- (1x2 = 2M)

- 23) An electric bell is based on the heating effect of electric current.
- 24) Crow and crocodile excrete ammonia as the main waste product.

V. 25) Match the following:- (¼ x4 = 1M)

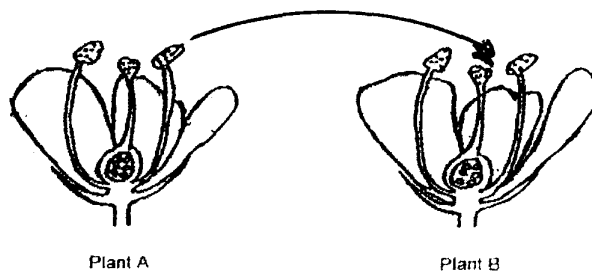
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|--------------|------------|
| a) Lizard | Moist skin |
| b) Fish | Trachea |
| c) Cockroach | Lungs |
| d) Earthworm | Gills |

SECTION – C

VI. Answer the following in 1 or 2 sentences:- (2x10 = 20M)

- 26) Write any four factors that lead to the depletion of water table.
- 27) Distinguish between real and virtual image. (two points each)
- 28) Mention the role of root hair and transpiration in the absorption of water and minerals in plants.
- 29) a) What is closed circuit with respect to ON –OFF switch?
- b) Draw a circuit diagram for closed circuit.
- 30) Write down four characteristics of image formed by a plane mirror.

- 31) What are the advantages of vegetative reproduction?
- 32) Why do we get relief from cramps after hot bath or massage?
- 33) What is the range of temperature in a clinical thermometer? Why is it limited so?
- 34) Distinguish between inhalation and exhalation.
- 35) a) Define pollination. Name the most important agents of pollination.
b) What is the type of pollination in the figure given below?



SECTION - D

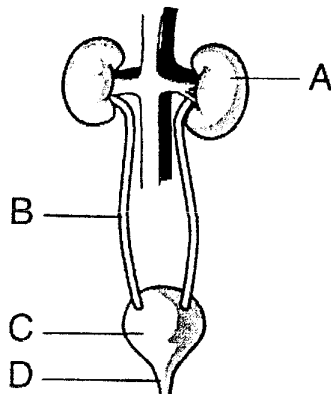
VII. Answer the following in 3 or 4 sentences:-

(3x10 = 30M)

- 36) Distinguish between aerobic and anaerobic respiration with equations.
- 37) What is electromagnet? Give two applications of electromagnet.
- 38) Explain sea breeze . Also represent this process with arrow diagram.
- 39) Write three practical uses of concave mirror.
- 40) a) Write two instances when the needle of a compass deflects.
b) Name the scientist who proved the magnetic effect of electric current.
- 41) a) Write any two differences between vein and artery.
b) Define dialysis.

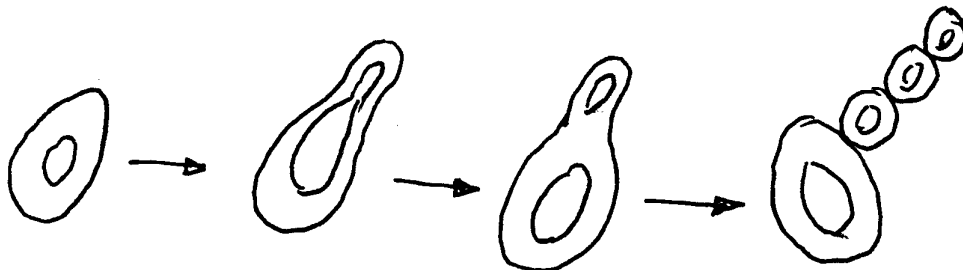
OR

- c) Name two animals which do not need blood circulation. Why is it so?
- 42) a) Write the significance of sweating.



c) Label the parts:-

- 43) Define fertilization. How are fruits and seeds formed?
- 44) a) What is an aquifer? How is the water in the aquifer available to us?
 b) What is the importance of water cycle?
- 45) a) How is seed dispersal beneficial for plants?
 b) Name the asexual reproduction and the organism in which it is found.



SECTION – E

VIII. Answer the following in detail :

(3x5 = 15M)

- 46) a) Draw the schematic diagram of blood circulation in human.
 b) Name the chambers of human heart.
 c) Mention the function of W.B.C. and blood platelets.
- 47) a) What is electric fuse? Write the peculiar nature of wire used in a fuse.
 b) On what factors does heat produced in a wire depend?
 c) Give two possible reasons for excessive current in a circuit.

OR

- a) Explain the working of electric bell. (diagram is not needed)
 b) What is CFLs. Why they are preferred than ordinary electric bulb?
- 48) a) Define breathing rate.
 b) Explain the breathing mechanism in human.