



# DELHI PUBLIC SCHOOL, CHANDIGARH

Summative Assessment-II, Session 2013-14

Class : VII, Subject : Science (Sample Paper)

Time : 3 hours

MM : 90

Q.1 Choose and write the correct option

(1x12=12)

i) The fastest mode of heat transfer is

- a) Conduction
- b) Convection
- c) Radiation
- d) None of these

ii) Convection takes place in

- a) Solids
- b) Liquids
- c) Gases
- d) Both (b) and (c)

iii) Weather changes are caused by the

- a) Moon
- b) Sun
- c) Earth
- d) Sky

iv) If the maximum temperature recorded for the day is 36°C and the maximum humidity is 92%, the weather is

- a) Hot and dry
- b) Cold and Dry
- c) Hot and humid
- d) Hot and windy

v) The end product of aerobic respiration are

- a) Carbon dioxide and water
- b) Carbon dioxide and oxygen
- c) Carbon dioxide and glucose
- d) Carbon dioxide, water and energy

vi) During inhalation, the ribcage moves

- a) Upward and outward
- b) Downward only
- c) Inward and downward
- d) Inward only

vii) Which of the following is not an excretory waste of human beings

- a) Carbon dioxide
- b) Urea
- c) Oxygen
- d) Water

viii) Transpiration is

- a) The loss of excess of water from aerial parts of plant
- b) The loss of water and oxygen from aerial parts of plants
- c) The loss of excess water in the form of water vapour from aerial parts of plants
- d) The loss of water and carbon dioxide from aerial parts of plants

- ix) The seeds are developed from
- |          |           |
|----------|-----------|
| a) Ovum  | b) Ovules |
| c) Ovary | d) Carpel |
- x) S.I unit of speed
- |         |          |
|---------|----------|
| a) m/s  | b) km/s  |
| c) km/h | d) m/min |
- xi) Which of the following Indian state is vulnerable to cyclone?
- |                      |                   |
|----------------------|-------------------|
| a) Jammu and Kashmir | b) Rajasthan      |
| c) West Bengal       | d) Madhya Pradesh |
- xii) When water vapour condense, they
- |                  |                 |
|------------------|-----------------|
| a) release heat  | b) absorb heat  |
| c) release light | d) absorb light |

Q.2 Give one word/name/example (1x12=12)

- i) The liquid metal used in thermometers.
- ii) The government department responsible for gathering information and predicting the weather of a place.
- iii) The type of climate of Kerala
- iv) The moving air.
- v) The number of times a person breathes per minute.
- vi) A muscular sheet forming the floor of chest cavity
- vii) An instrument used to measure heart beat.
- viii) The vascular tissue for the transport of food to all parts of the plants
- ix) The process of fusion of male and female gamete.
- x) The agent used to disperse Xanthium seed.
- xi) The number of oscillation completed by a simple pendulum in one second.
- xii) The central calm area of cyclone.

Q.3 Give reason (2x6=12)

- i) Outer walls of house are constructed using hollow bricks.
- ii) There is less or no vegetation in polar region.
- iii) We do not expect Delhi to be hit by a cyclone.
- iv) We should breathe through nose.
- v) Blood is needed by all parts of our body.
- vi) Cucumber and corn produce by sexual flowers.

Q.4 Answer the following

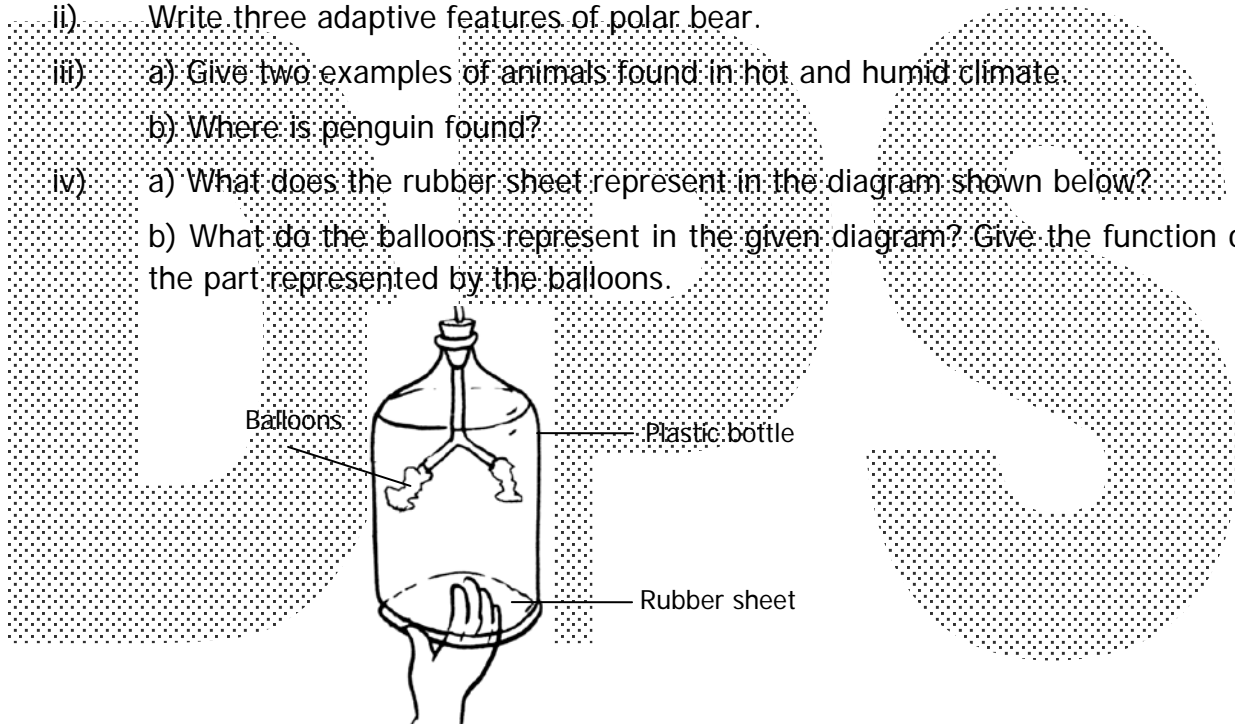
(2x6=12)

- i) What kind of clothes will keep us comfortable in summers? and why?
- ii) What is the climate of polar region?
- iii) What are the destruction caused by cyclones?
- iv) How is inhaled air different from exhaled air?
- v) How much urine is passed out by a normal adult human being? What is the composition of urine?
- vi) A car covers a distance of 450km in 8hours.Find its speed.

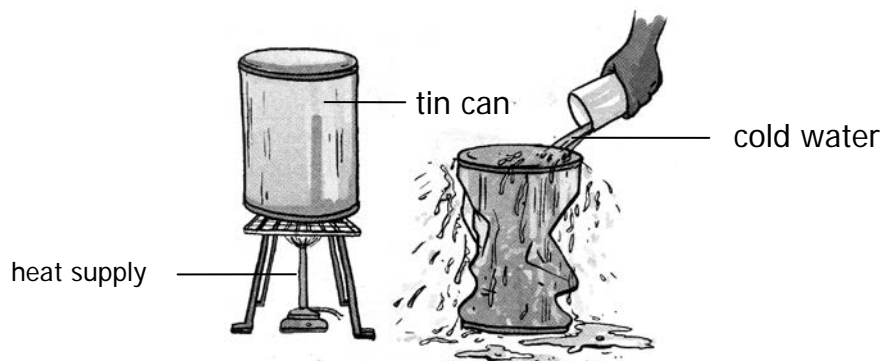
Q.5 Answer the following

(3x9=27)

- i) a) Name and define the mode of transfer of heat in which heat is transferred in the absence of a medium.  
b) Write the unit for heat energy.
- ii) Write three adaptive features of polar bear.
- iii) a) Give two examples of animals found in hot and humid climate.  
b) Where is penguin found?
- iv) a) What does the rubber sheet represent in the diagram shown below?  
b) What do the balloons represent in the given diagram? Give the function of the part represented by the balloons.



- v) a) Observe the activity shown below carefully and explain the reason for the change in the tin can, when cold water is poured on it.

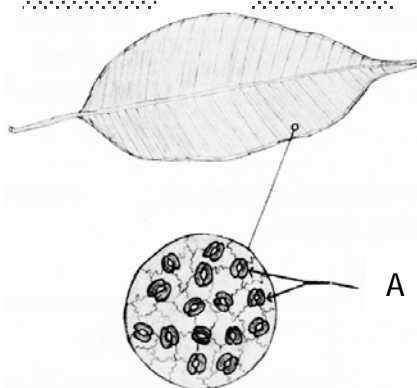


- b) What are cyclones called in American continent?

- vi)
  - a) Name the artery which carries deoxygenated blood.
  - b) Name the pigment which makes the blood red.
  - c) What is the liquid part of our blood known as?
- vii) Give one example of an organisms which reproduces by
  - a) Budding
  - b) Fragmentation
  - c) Roots
- viii) a) Draw the shape of distance time graph for a vehicle moving with constant speed.
  - b) What is the basic unit of time.
- ix) Write three safety measure that are to be taken during a thunderstorms

Q.6 Answer the following (3x5=15)

- i)
  - a) Draw a labelled diagram of a bread mould (Rhizopus)
  - b) Differentiate between Stamen and Pistil of a flower.
- ii) Observe the given diagram and answer the following questions



- a) Label A
- b) Write two functions of A in a leaf.
- c) Why plants require excretion? Name a substance excreted by plants.
- iii)
  - a) Why is a clinical thermometer jerked before using?
  - b) Write any two effects that heat causes in a substance.
  - c) Why are digital thermometers preferred over mercury thermometers?