ITL Public School
Summative Assessment 1(2015-16)

Date: 16/09/2015   **Class: VII**

SCIENCE (Set -A)

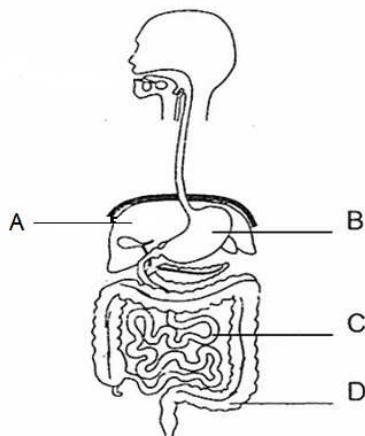**Time:3h**   **M. M: 90**

General Instructions:
1. *There are 36 questions in this paper.*
2. *Marks are indicated against each question.*
3. *Q 24 to Q 36 are based on practical skills.*
4. *All questions are compulsory.*

1	Name the cells which surround stomatal opening.	1
2	What is the function of gall bladder in the human digestive system?	1
3	What is the range of clinical thermometer?	1
4	Which part of digestive system is involved in: a) Complete digestion of food. b) Absorption of water.	2
5	Why does shearing not hurt the sheep?	2
6	Name an animal which can breathe through a) Gills b) skin	2
7	A microorganism lives in the root nodules of leguminous plants and is considered beneficial for soil fertility. In reference to this answer the following: a) Name the microorganism. b) Name the relationship between plant and microorganism. c) What is the role of microorganism in increasing soil fertility?	3
8	Write appropriate term for the following: a) Organism which depend on dead and decaying organic matter. b) An association of algae and fungus. c) Organism on which parasite is dependent. d) Pigment in plants which captures sunlight. e) The part of plant modified to form spines in desert plants. f) Plants which feed upon insects.	3
9	Give reasons: a) Villi are present in small intestine. b) Mucus is secreted in stomach. c) ORS is given during diarrhoea.	3
10	A component of food is easily digested by cows & buffaloes but not by human beings. Name the component & explain why it is not digested by human beings?	3
11	Explain the different stages of life cycle of silk moth with the help of a diagram.	3
12	Write three precautions to be taken while reading a clinical thermometer.	3

13   When a candle burns, both physical and chemical changes take place. Identify these changes and give   3
      reasons in support of your answer.

14   A car moves with a speed of 60 km/h for 30 min & then with a speed of 80km/h for next 30 min.   3
      Calculate:
          a)   The total distance travelled by car
          b)   Average speed of the car.

15   Give reasons: 3
          a)   Whales and dolphins often come to surface of water.
          b)   Mode of respiration in frog and tadpole is different.
          c)   Yeast is used to make wine and beer.

16   "Frequent situations of water crisis alarm us to conserve water". Explain three steps which can be   3
      taken for proper management of water.

17   What do you mean by water table? What is the effect of droughts and heavy rain fall on water table?   3

18   Differentiate between aerobic and anaerobic respiration.(two points).Give one similarity also.   3

19   a) Observe the following diagram and label the parts A,B,C,D.   5

          b)   Which component of food is digested in stomach and how?
          c)   What are the end products of digestion?

20   a)   Why is selective breeding done in sheep?   5
      b)   Name two types of hair present in skin of sheep. Which among the two is used to make wool?
      c)   Mention the steps to obtain wool by processing of fleece of sheep.

21   a)   Convert 45^0C into ^0F.   5
      b)   Give reasons for the following:
              i) Digital thermometers are preferred over mercury thermometers.
              ii) Wearing more layers of clothes are suggested during winters.
              Iii) False ceiling keeps the room warm during winters.

22   a)   An iron nail is kept in blue colured copper sulphate solution. After sometime, colour of the   5
              solution changes & there is a brown deposit on iron nail.
              i) Write the change in colour of solution.
              ii) What is the brown deposit ?
              iii) What type of change has taken place?
              iv) Write word equation/chemical equation for the above change.

      b)   Classify the following changes into chemical or physical:
              a) Digestion of food
              b) Melting of ice
              c) Photosynthesis
              d) Crystallization.

23   a) Rahul's friend insisted him to try smoking once but Rahul refused. What reasons he give to him for it? What value is depicted by his action?

b) Complete the following table on the basis of movements occurring during respiration:
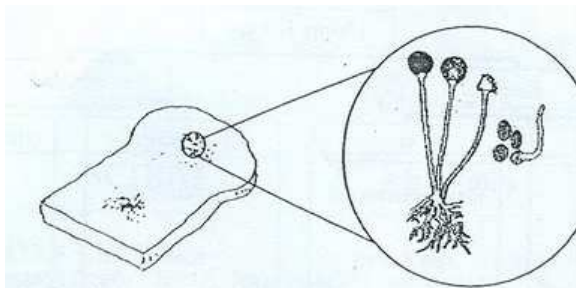
S.NO	parameter	inhalation	exhalation
1	movement of ribs		
2	movement of diaphragm		
3	movement of air		

24   A bus starts its journey at 8:00am.It reaches its destination at 10:00am.The distance travelled by the   1
car at various intervals of time is as follows:

Distance(km)	0	20	40	60	80
Time(h)	8:00	8:30	9:00	9:30	10:00

    a) Draw a distance time graph for the above data.
    b) From graph find out the distance covered at 8:45am.
    c) Calculate average speed of bus in km/h.
    d) What is the nature of motion exhibited by bus?

25   Identify following organism and write mode of nutrition in it.   1

26   Bacteria present in teeth convert sugar in food into a substance X .Name the substance X and mention   1
its effect on teeth.

27   Name the process by which heat travels from heater to our body.   1

28   What is the chemical name of baking soda?   1

29   Rita lives near coast. She always complains that her iron articles get rusted very fast. What do you   1
think is the reason for this?

30   What would happen if a plant is overwatered?   1

31   Why do we sneeze on inhaling lots of dust laden air?   1

32   When is world water day celebrated & why?   1

33   How can you minimize use of water while working in kitchen?   1

34   Write two advantages of constructing dams.   2

35   A simple pendulum completes 20 oscillations in 40 sec.Calculate its time period.   2

36   Renu's mother stopped her from talking while eating. What can be the reason for this? What is the   2
value depicted by mother's action?