Science

Reg.No. :

I.Answer all the questions.
II.Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 50

Part-A

3 x 1 = 3

1) Forest is an area with high density of _____

    (a) trees   (b) grass

2) _____ is an example of a natural ecosystem.

    (a) Paddy field   (b) Desert

3) The third trophic level in a food chain comprises of _____

    (a) herbivore   (b) carnivore

Part-B

5 x 1 = 5

4) The lowest temperature at which fuel catches fire is called _____

5) _____ is used to extinguish oil fire.

6) The amount of heat energy liberated by completely burning 1 kg of fuel is called_____

7) _____ is a measure of the heat energy possessed by a body.

8) The tyre of a moving vehicle becomes hot due to _____

Part-C

6 x 1 = 6

9) Rearrange the following words to form a food chain.

    (a) snake, mouse, paddy, eagle, grasshopper

    ____→ _____→ _____ → _____ → _____

    (b) man, big fish, phytoplankton, small fish, insects

    ____→ _____→ _____ → _____ → _____

10) Given below are some sources of water. Arrange the jumbled words in the right order and fill in the blanks.

    INAR RAIN OWNS _____ RRVIE_____ ASE _____ AKEL _____ NOPD _____

11) Write True for the correct statement and False for the wrong statement.

    Also correct the wrong statement(s)

    In a rapid combustion, substances catch fire without application of heat.

12) Write True for the correct statement and False for the wrong statement.

    Also correct the wrong statement(s)

    All types of fire can be extinguished by water.

13) Write True for the correct statement and False for the wrong statement.

    Also correct the wrong statement(s)

    Non –luminous zone is the hottest part of a flame.

14) Write True for the correct statement and False for the wrong statement.

    Also correct the wrong statement(s)

    A good fuel should have a low calorific value.

Part-D

12 x 3 = 36

15) Third Trophic level Carnivore Snake | Herbivore Second Trophic level Mouse | Plants Producers First Trophic level
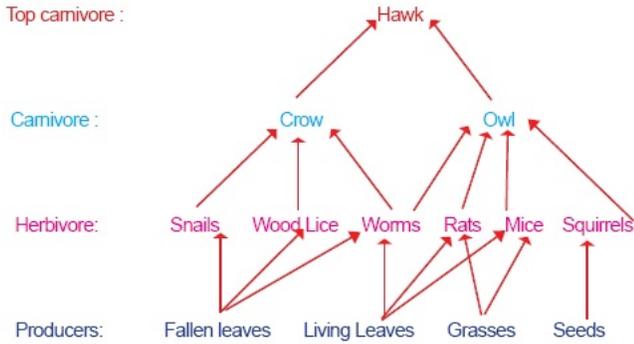
    a) Suggest the common idea derived from these boxes.

    b) Analyse the data given above and make a food chain.

16) Differentiate between the following:-

    a) Consumers and decomposers.

    b) Food chain and food web.

17) Discuss the effects of deforestation on the following:

    a) Wild animals

    b) Environment

18) Match the following types of forests with their unique characteristic features.

Rain forest, Savannah, Desert, Grassland, Taiga, Tundra.

S.No.	Characteristic feature	Types of Forest
1.	Frequent forest fire	
2.	Windy weather	
3.	Snow and ice	
4.	Hot days and cold nights	
5.	Ice covered frozen soil	
6.	Plentiful rainfall	

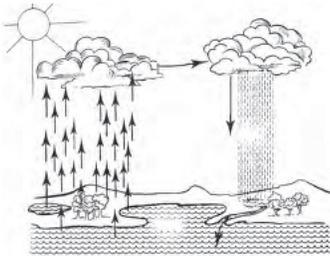19) Food web in a forest is given below:

a) From the diagram identify the following :

i) a Carnivore

ii) a Herbivore

iii) a Producer

b) Select four organisms from the food web and draw as many food chain as possible.

20) The diagram of a water cycle is given. Use the following words in the right place;

sea, cloud, evaporation, rain

21) Why is supply of water essential to humans?

22) a) Why has urbanisation occurred? List the ways in which urbanisation

i) benefits human

ii) harmful to wild life.

b) Suggest one way in which the effects of urbanisation can be reduced.

23) Advise class leaders on water conservation in your school. You can give them the following instructions;

a) Close the water tap after use.

b) _____

c) _____

d) _____

e) _____

f) _____

g) _____

h) _____

24) All of us use water every day. Fill in the table according to your observation:-

S.No.		IN SCHOOL	AT HOME
1.	Source of water		
2.	Number of taps		
3.	Taps that leak		
4.	Water wasted by leakage every day in litres		

25) Visit the following places to observe rain water harvesting and state why rainwater harvesting is essential in these places.

    i) Temple

    ii) School building

    iii) Government office

    iv) House

26) The State Government of Tamil Nadu has taken up a venture to convert sea water into potable water. Name the two desalination plants setup in connection with this idea

    a) _____

    b) _____

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