TERM 1
Model question paper 2 T1
7th Standard

Science

Reg.No. : ☐☐☐☐☐☐

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

Time : 01:30:00 Hrs   Total Marks : 97

Part-A   18 x 1 = 18

1) Fibres obtained from an insect _____

(a) Wool   (b) Silk

2) _____ is reared in a poultry farm.

(a) Buffalo   (b) Hen

3) There is only one_____ bee in a bee hive.

(a) queen   (b) drone

4) After incubation, the hen's egg hatch in _____days.

(a) 21   (b) 31

5) A sheep has a coat of wool for _____

(a) man   (b) itself

6) Absorption of water is a function of _____ system

(a) Shoot   (b) root

7) Thulasi is an example of a _____

(a) herb   (b) shrub

8) The stalk of a leaf is called _____

(a) stipule   (b) petiole

9) _____ protects the flower when it is a bud

(a) calyx   (b) corolla

10) Movement of plant towards _____ is called phototropism.

(a) Water   (b) light

11) The five kingdom system of classification was proposed by _____

(a) R.H.Whittaker   (b) Carl Linnaeus

12) Kingdom Monera includes _____ organisms.

(a) multicellular   (b) unicellular

13) The queen of drugs is ---------------

(a) yeast   (b) penicillin

14) Plant cells have it. Animal cells do not have it. What is it? --------------

(a) Nucleus   (b) cell wall

15) Oryza sativa is a binomial of -----------------

(a) rice   (b) wheat

16) The only substance which exists in all the three states of matter is _____

(a) water   (b) stone   (c) glass

17) The matter which has a negligible intermolecular space is_____

(a) solid   (b) liquid   (c) gas

18) 1 Nanometer is equal to -----------------

(a) 10^{-10} m   (b) 10^{-9} m   (c) 10^{-12} m

Part-B   2 x 1 = 2

19) The force of attraction between the particles in gas is _____ (less / more) than that of a solid.

20) _____ (Solid / Liquid) state has definite volume, but no definite shape.

Part-C   7 x 1 = 7

21) The following jumbled words denote the stages in the life cycle of a silkworm. Could you write the correct sequence.

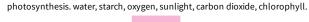THOM, GEGS, VARAL, APPU

MOTH -> _____ -> _____ -> _____

22) From the given list of living things list out the autotrophs and heterotrophs.

grass, snake, neem tree, man, mushroom, amoeba, mango tree, cabbage,

cow, sunflower

S.No.	AUTOTROPHS	HETEROTROPHS
1.		
2.		
3.		
4.		

23) Fill in the boxes with the given words to complete the equation for

photosynthesis. water, starch, oxygen, sunlight, carbon dioxide, chlorophyll.

24) The jumbled words below are the various movements of a plant. Write the correct word.

SICTAN = NASTIC

25) The jumbled words below are the various movements of a plant. Write the correct word.

PSIMORTOEG = _____

26) The jumbled words below are the various movements of a plant. Write the correct word.

PISOMTRORDHY = _____

27) The jumbled words below are the various movements of a plant. Write the correct word.

SIMPTROOOTHP = _____

Part-D   11 x 2 = 22

28) Place the following animals in their phylum.

tapeworm, sponges, hydra, Ascaris, scorpion, human, snail, starfish, earthworm.

Tapeworm - Platyhelminthes

a. ---------------- - ---------------

b. ---------------- - ----------------

c. ---------------- - ----------------

d. ---------------- - ----------------

e. ---------------- - ----------------

f. ---------------- - ----------------

g. ---------------- - ----------------

h. ---------------- - ----------------

29) Some beneficial and harmful effects of bacteria are given below. Write (B) for Beneficial and (H) for Harmful.

a	Leprosy	Beneficial	Harmful
b	Ring rot of potato	Beneficial	Harmful
c	Recyciling of waste	Beneficial	Harmful
d	Tuberculosis in man	Beneficial	Harmful
e	Tanning of leather	Beneficial	Harmful
f	Wilt of tomato	Beneficial	Harmful
g	Processing of tea	Beneficial	Harmful

30) Draw different shapes of bacteria.

31) Euglena possesses chloroplast. In the absence of sunlight it is heterotrophic. In which kingdom will you place it? Animal or plant?

32) Find out the names of the following in as many languages as you can with help of your teachers and parents.

1. Lion   2. Mango   3. Dog   4. Potato   5. Hibiscus   6. Groundnut

SI. No	English Name	Tamil Name	Binomial Name
1	Lion	Singam	Panthera leo
2	Mango		
3	Dog		
4	Potato		
5	Hibiscus		
6	Groundnut		

33) Materials which are very familiar to Raveena are given below. Help her to classify them into solids, liquids and gas. bricks, kerosene, milk, coconut oil, air, book, table, oxygen,

carbon dioxide.

34) Give reason for the following observation.

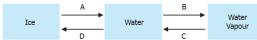a) We can smell the jasmine flower while we are sitting several metres away.

b) The level of water remains the same when a pinch of salt is dissolved in it.

35) Gas can be compressed into a smaller volume but a solid cannot be. Could you explain. Why?

36) Mohan went to a shop to buy milk. He took his bicycle to go to the shop. He saw that the air in the cycle tube was a very little. He took it to the cycle shop. The cycle mechanic used a compressor pump to inflate the cycle tube. Mohan had a doubt. "How does the compressor works?". Help Mohan to find the answer.

37) On varying the temperature, you can notice the process that matter will change from one state to another. Name the process A, B, C and D.

Ice		Water		Water Vapour
	A → ← D		B → ← C	

38) Solids are incompressible. Sponge is also a solid. We are able to compress it. Could you explain. Why?

Part-E   16 x 3 = 48

39) On the way home you notice a goat with a broken leg. You feel sad and want to help it. Write down the things you would do
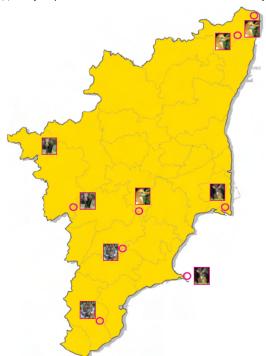
a)_____

b)_____

c)_____

40) Complete the chart given below by observing the following animals in your surrounding.

crow, cow, lizard, donkey, goat, horse, housefly, ant, monkey, butterfly, mosquito, dog, cat.

Sl.No	Animal	Sound it makes	Food it eats	Where it lives	Relaionship with man
1.	dog	wow,wow	rice,meat	kennel	friend,guard
2.					
3.					
4.					
5.					

41) In the given map of Tamilnadu some famous wildlife sanctuaries are marked.

(a) Name the places.

(b) Find out the animals/birds which are found there.

(c) Mark your place of residence and find the name of the sanctuary near your home.

42) Given below is a list of food items with their constituents. In the table given below write the names of the food that you took yesterday and tick the constituents in it.

Idli	Carbohydrates, proteins
Dosai	Carbohydrates, proteins
Sambar	Protein, vitamin, minerals, fat
Rice	Carbohydrates
Egg	Protein, fat
Channa sundal	Protein
Vegetable poriyal	Vitamins, minerals
Vadai, milk	Fat, protein
Fish	Protein
Millet (Kambu/Cholam)	Carbohydrates
Greens	Vitamins, minerals

Could you find out the nutrient missing in your diet.

	Food you took	Carbo hydrate	Protein	Fat	Vitamin	Mineral
Breakfast						
Lunch						
Snacks						
Dinner						

43) Observe the teeth of your family members. Count the teeth and record below.

S.No	Family member	Jaws	Incisors	Canines	Premolars	Molars
1.	Father	U				
		L				
2.	Mother	U				
		L				
3.	Self	U				
		L				
4.	Brother	U				
		L				
5.	Sister	U				
		L				
6.		U				
		L				

Dental formula of human being $= I\frac{2}{2}; C\frac{1}{1}; PM\frac{2}{2}; M\frac{3}{3} \times 2 = 32$

44) Look at the diagram, find out the teeth and list its use in human being.

S.No	Picture of teeth	Name of the teeth	Uses
1.			
2.			
3.			
4.			

45) The diagram of a flower is given below. Label the following parts.

a) sepal b) petal c) stamen d) stigma

46) The answers to the following are found in the word grid below. Find the answers and fill in the blanks.

a. I am a hydrophyte _____

b. I am a herb _____

c. I grow in desert _____

d. I am a tree _____

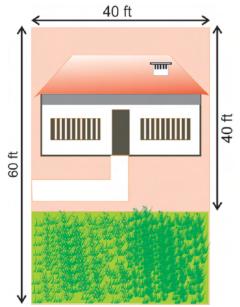e. I produce food in the plant _____

f. I am a fusiform root _____

g. I am a tuber _____

h. I am a climber _____

i. Touch-me not _____

j. I am a flower endemic to Tamil Nadu _____

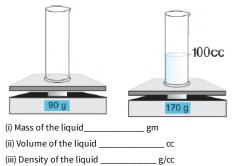| P	K	U	R	I	N	J	I	O	P
O	Z	Y	R	E	P	P	E	P	Q
T	T	R	A	D	I	S	H	P	T
A	E	O	P	U	N	T	I	A	Q
T	A	L	E	A	F	X	W	D	R
O	K	M	I	M	O	S	A	D	A
W	A	T	E	R	L	I	L	Y	A

47) Anand's father had a rectangular plot of length 60 feet and breadth 40 feet. He built a house in the plot and in the remaining area he planted a garden as shown.
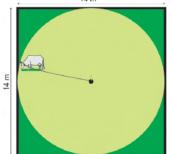

Can you help Anand to find out the area of his garden.

48) Density is the lightness or heaviness of a substance. Kamala wanted to know whether water or coconut oil had lesser density. Her sister Mala asked her to bring a cup of water and some coconut oil. How did Mala clear Kamala's doubt?

49) Observe the given picture and note

(i) Mass of the liquid_____ gm

(ii) Volume of the liquid _____ cc
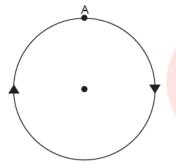
(iii) Density of the liquid _____ g/cc

50) Kandasamy, a farmer had a fenced square shaped field in which he allowed his cow to graze. He tied his cow to a stake at the centre of the plot by a rope of length 7 m.
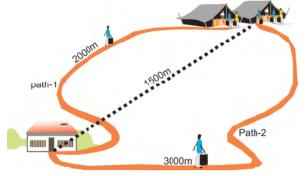

Kandasamy's son, Raju was amused to see that the cow grazed over a large circle of grass but left grass at the corners untouched. How could Raju find out the area of the land not grazed by the cow?

51) Selvi goes for a morning walk in the park near her house. She starts from point 'A', walks a circular path of radius 7m and returns to the same point 'A'.

(i) What is her displacement?

(ii) Find the distance she has walked.

52) Mani and Shankar walk from their home to the market in 20 minutes, Mani takes path 1 while Shankar takes path 2.

(i) What are their speed?

(ii) What is their velocity?

(iii) What do you infer?

53) Raju is travelling in a train moving at a speed of 72 km/h. In order to stop the train, the driver decreases the speed. The rate of decrease in speed of the moving body is known as deceleration or retardation. If the deceleration of the train is 10m/s^2, how much time will it take to come to a stop?

54) The given graph depicts the motion of a bus. Interpret the motion the bus.

    a) AB represents _____

    b) BC represents _____

    c) CD represents _____

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