

TERM 2
Model question paper 3 T2

7th Standard

Science

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:40:00 Hrs

Total Marks : 75

Part-A

12 x 1 = 12

- 1) The muscle found exclusively in the heart is _____.
(a) skeletal muscle (b) cardiac muscle (c) smooth muscle
- 2) The skeletal system is made up _____ bones.
(a) 206 (b) 306 (c) 606
- 3) The endocrine glands secrete chemicals called _____.
(a) Enzymes (b) Vitamins (c) Hormones
- 4) _____ is an ancient system of natural medical healing that originated in Tamil nadu.
(a) Siddha (b) Ayurveda (c) Unani
- 5) Pasteurization method was discovered by _____.
(a) Hippocrates (b) Louis Pasteur (c) Agastiyar
- 6) The clean air we breathe is rich in _____.
(a) oxygen (b) carbon dioxide
- 7) Respiration that takes place in the absence of oxygen is called _____ respiration.
(a) aerobic (b) anaerobic
- 8) Plants breathe through tiny pores in the leaves called _____.
(a) trachea (b) stomata
- 9) An electric cell converts _____.
(a) chemical energy into electrical energy (b) mechanical energy into chemical energy (c) electrical energy into light energy (d) light energy into heat energy
- 10) The electric current flowing through the conductor produces _____ around it.
(a) heat (b) magnetic field (c) mechanical force (d) all the above
- 11) Secondary cells _____.
(a) cannot be recharged (b) cannot be reused (c) cannot be recharged or reused (d) can be recharged and reused
- 12) Find the odd one out:
(a) electric toaster (b) electric fan (c) electric iron (d) room heater

Part-B

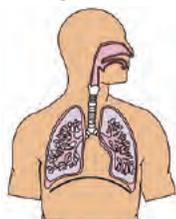
8 x 1 = 8

- 13) Acids have _____ (bitter / sour) taste.
- 14) Burning of a candle is an example of _____ (physical / chemical) change
- 15) Some commonly used natural indicators to identify acids and bases are _____ and _____.
- 16) A drawing of an electrical circuit with standard symbols is called a/an _____. (circuit diagram / electric diagram)
- 17) Electric toasters and electric irons get hot when switched on because of the _____ effect of current. (magnetic/heating)
- 18) A fuse is a _____ device. (safety / heating)
- 19) The filament in an electric bulb is made of _____. (tungsten / nichrome)
- 20) A pivoted magnetic needle will always point to the _____ direction. (east - west / north-south)

Part-C

9 x 1 = 9

- 21) The following words are the various levels of organization in living organisms. Arrange them in correct sequence:
Atoms, Cells, Organs, Organelles, Tissues, Organism, Molecule, Organ system.
- 22) Arrange the following parts of the Respiratory System in order:
trachea, nose, alveoli, bronchi, nasal cavity, bronchiole.
- 23) The diagram of the Respiratory System of man is given here. Label the following parts in it.



nose, trachea, bronchi, lungs, bronchiole.

- 24) Fill up the missing words in the equation given below.
- a) _____ + Oxygen → _____ + _____ + Energy
- b) Glucose → _____ + Carbon dioxide + _____
- 25) Name the organs of respiration in the :
- i) Amoeba _____ ii) Fish _____ iii) Frog _____
- 26) The physical change is generally reversible. The chemical change is irreversible. Classify the following changes as physical change or chemical change.
- a) Frying of egg
- b) Burning of petrol
- c) broken glass
- d) formation of curd from milk
- e) compression of spring
- f) photosynthesis
- g) digestion of food
- 27) Kumar had put some naphthalene balls in his wardrobe to keep the insects away. After a few days, he found that they had become very small. Give reason for the change. Name the phenomenon behind it.
- 28) Malavizhi's father bought an apple. He cut it into slices and gave them to her. The slices turned brown after some time. Seeing the brown colour, she asked her father how it happened. What could be her father's explanation?
- 29) Correct the following statements:
- 1) The longer line in the symbol for electric cell denotes the negative terminal.
 - 2) When current is continuously passed through a bulb, it becomes cold.
 - 3) A magnetic compass kept near a wire gets deflected.
 - 4) Conductors do not allow electric current to pass through them.
 - 5) Plastic from scrap can be removed with an electromagnet

Part-D

2 x 2 = 4

- 30) Bee stings can be very painful. If a bee stings your friend, how would you help him?
- a) What substance will you apply on the bite area?
- b) What chemical does that substance contain?
- 31) Answer the following:
- a) Tablets for prescribed indigestion contain a base. Why?
- b) Explain why the rusting of iron objects is faster in coastal areas.

Part-E

14 x 3 = 42

- 32) Observe the given table with a set of organs in column A. In each set, there is an odd organ. Pick the odd one out and write it in column B. In column C, write the system to which the remaining three belong.

S.No.	A	B	C
1.	saliva, bones, liver, pancreas	bones	digestive system
2.	skin, hair, nail, tooth		
3.	arteries, veins, fingers, capillaries		
4.	brain, spinal cord, nerves, kidneys		

- 33) Write any two functions of each of the following

- i) Kidney (1) _____ (2) _____
- ii) Bone (1) _____ (2) _____
- iii) Skin (1) _____ (2) _____
- iv) Blood (1) _____ (2) _____

- 34) What happens when :-

- i) You eat fast food.
- _____

- ii) Your blood glucose level exceeds 120mg/dl.
- _____

- 35) Diet and lifestyle play a major role in preventing sickness and keeping us healthy. Write down any 3 things that you will do and any 3 you will not do to maintain good health.

S.No.	I will do	I will not do
1.	exercise daily	eat fast food
2.		
3.		
4.		

- 36) Ravi is obese and overweight. His glucose level is also high. His mother seeks the advice of a doctor. The doctor suggests a daily activity programme. What could be the suggested activities?

37) Photosynthesis takes place only during day time. Respiration takes place all the time.

i) Write down the names of gases exchanged during these processes.

ii) How does the exchange of gases take place in a leaf?

38) Anaerobic bacteria digest animal waste and produce biogas (change A). The biogas is then burnt as fuel (change B). The following statements pertain to these changes. Choose the correct one.

i) 'A' is a chemical change.

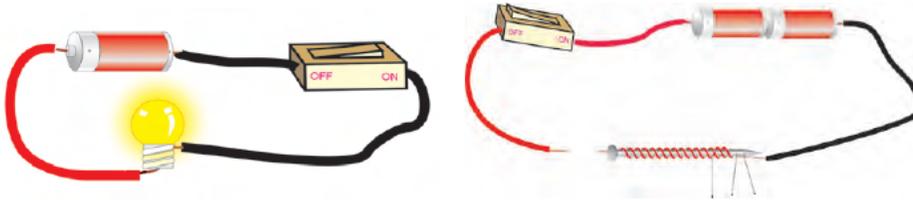
ii) 'B' is a chemical change.

iii) Both 'A' and 'B' are chemical changes.

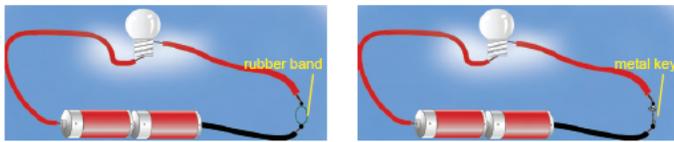
39) Burning of wood and cutting a log of wood into small pieces are two different types of changes. Give reason

40) You are given two cells - A and B. One is dead and the other works well. Suggest a way to identify which one is in working condition.

41) Find out and write down what is wrong with the pictures given below



42) Observe the figures below and complete the sentences using the given options: (will glow / will not glow/ a conductor/ an insulator)



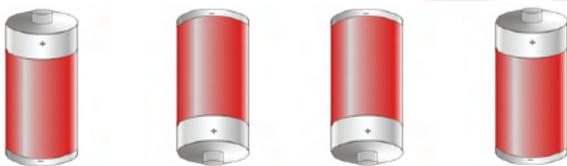
(a)

(b)

i) In figure "a", the bulb _____, as the rubberband is _____.

ii) In figure "b", the bulb _____, as the metal key is _____.

43)



Show how these four cells can be connected to form a battery by drawing lines.

44) The symbols of electric components are given below. Use some of them to make a circuit, so that the bulb glows.



45) Find out the changes required to make the bulb glow. Draw the correct circuit using symbols

