

T3-Biology
Model Question Paper VII
9th Standard

Science

Reg.No. :

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I. Answer all the questions

Time : 02:00:00 Hrs

Total Marks : 70

15 x 1 = 15

Part-A

- 1) A plant cell differs from an animal cell due to the presence of _____.
(a) cell membrane (b) endoplasmic reticulum (c) plasma membrane (d) cell wall
- 2) _____ is a parasitic plant
(a) mushroom (b) mucor (c) cuscuta (d) yeast
- 3) The loss of water from the aerial parts of the plant is known as _____.
(a) photosynthesis (b) transpiration (c) reproduction (d) respiration
- 4) _____ is mainly concerned with the transport of nutrients, water and minerals upwards in the plant body
(a) Phloem (b) Xylem (c) Fibres (d) Parenchyma
- 5) Cells having dense cytoplasm and large nucleus are called _____.
(a) simple tissue (b) compound tissue (c) meristematic tissue (d) permanent tissue
- 6) Which part helps the plant absorb water and mineral from the soil?
(a) root hairs (b) roots (c) root cap (d) tap root
- 7) Find out which one is not related to leaves?
(a) photosynthesis (b) respiration (c) transpiration (d) transportation
- 8) This is an example of chemo autotrophs _____.
(a) Green sulphur bacteria (b) Bacillus subtilis (c) Nitrosomonas bacteria (d) Purple sulphur bacteria
- 9) Find the one that is not doing symbiotic nutrition.
(a) Lichen (b) Mycorrhiza (c) Mucor (d) Rhizobium
- 10) In Photosynthesis
(a) H_2O and CO_2 are reduced (b) H_2O is reduced and CO_2 is oxidised (c) H_2O and CO_2 are oxidized (d) H_2 is oxidized and CO_2 is reduced
- 11) Aerobic and anaerobic respirations differ from each other in all aspect except _____.
(a) involvement of oxygen (b) output of energy (c) end products (d) breakdown of glucose in cytoplasm
- 12) Liver cirrhosis is mainly associated with _____.
(a) smoking cigarettes (b) excessive use of pain killers (c) alcoholism (d) excessive use of narcotic drugs
- 13) An intoxicating ingredient found in beer, wine and liquor is _____.
(a) nicotine (b) ethyl alcohol (c) LSD (d) opium
- 14) The Tajmahal which is a historical monument built with marble is being corroded due to the gases let out by the nearby oil refineries. The chief pollutant is _____.
(a) CO (b) CO_2 (c) SO_2 (d) NO_2
- 15) The Pollutant responsible for Ozone depletion is _____.
(a) CFC's (b) MIC (c) CO_2 (d) SO_2

Part-B

10 x 1 = 10

- 16) What is the meaning of the term 'addiction'?
- 17) What kind of people are prone to 'addiction'?
- 18) How is substance-related addiction different from behaviour-related addiction?
- 19) Write a note on liver cirrhosis.
- 20) Draw a flow chart to depict how the habit of smoking affects the human body
- 21) Bursting of crackers and use of loud speakers are restricted at night due to noise pollution. Mention any two harmful effects of noise pollution.
- 22) The man made pollutants are _____.
- 23) _____ can damage bone marrow, spleen, lymph nodes and can cause leukemia.
- 24) _____ are coolant gases used in refrigerators.
- 25) The most efficient way to convert sea water into purified drinking water is by _____.

Part-C

15 x 2 = 30

- 26) Organisms can breathe 'without air'. Justify.
- 27) Which plant tissues are responsible for giving a plant strength and support?
- 28) Name the different types of cells that form xylem
- 29) Indicate using a flow chart (using arrows) how water and dissolved minerals move from soil to the leaves. Name the cells involved in the process.
- 30) Photosynthesis is held in the leaf of a plant. In which synthesis organic material called _____. This food materials are transported by _____ tissue to all parts of the plant.

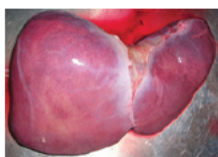
- 31) This is a sign commonly seen in public places.
- What do you understand from this illustration?
 - Name two diseases caused by smoking.
 - How can we create awareness about smoking?



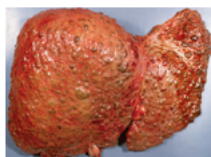
- 32) Due to smoking, the skin loses its texture. Give reasons.
- 33) Observe the picture and answer the following:
- What does it indicate?
 - Name two ailments caused by this habit.



- 34) Observe the picture and answer the following:
- How is 'B' different from 'A'?
 - What causes the difference?



A



B

- 35) Mr. X went to a party along with his friends. That was the first time he drank alcohol. Gradually, he became addicted to it. Analyze and list out the problems you think he will be facing now. Mr. X and his problems:

Sl.No	Physical	Psychological	Social
1.			
2.			
3.			

- 36) Prepare two posters containing slogans to create awareness about the harmful effects of noise.
- 37) Planting of sapling is being carried out. At the same time, felling of trees occurs at an alarming rate. How can we strike a balance between the two.
- 38) Oil spills in seas and oceans are a frequent occurrence due to oil explorations and tanker accidents. Write a note on the effects of oil spills on marine life.
- 39) Find the odd one out and give reasons:
- radium, thorium, uranium, domestic sewage
 - benzene, toluene, xylene, acid rain.
- 40) Who am I?
- I am a rod-shaped saprophytic soil bacteria with the ability to breakdown hydro carbons and organic solvents like octane and toluene _____
 - I get accumulated in bones causing bone cancer _____

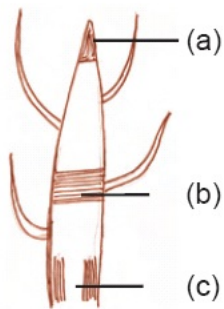
Part-D

5 x 3 = 15

- 41) Draw a labelled diagram to show the Ascent of sap
- 42) The movement of water molecule from a region of higher concentration to a region of its lower concentration through a semi-permeable membrane is called Osmosis.
- In the above statement, "how will you differentiate active transport from passive transport?

43) Answer the questions related to the given figure.

- Copy the diagram and name the parts marked (a) to (c).
- Which part is responsible for elongation of the stem?
- Which part is responsible for secondary growth?
- Name the part which is responsible for elongation of internodes.



44) Divide the class into two groups. Conduct a debate on the topic. "Bad Habits are Hard to Break"

45) Find the hidden gases:



Decomposition

(a)



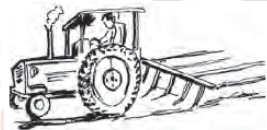
Refrigerator

(b)



Greenhouse

(c)



Ploughing

(d)

A: _____ B: _____ C: _____ D: _____

E: The precipitate of acid rain is a mixture of _____ and _____

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