MAHARASHTRA BOARD · CLASS 10 · SCIENCE AND TECHNOLOGY PART 2

Maharashtra Board Class 10 Science and Technology Part 2 Guess Paper 2027

Time: 2 hours · Maximum marks: 40 · 21 questions

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Section 1

Q1(A) MCQs (choose the correct alternative) and Q1(B) one-mark questions (odd-one-out, correlation, true/false, match the pairs, one word)

Q1. The causality behind the sudden changes was understood due to ..... principle of Hugo de Vries. (A) Appendix (B) Mutation (C) Transcription (D) Translocation — 1 mark

Q2. Bat is included in class ..... (A) Amphibia (B) Reptilia (C) Aves (D) Mammalia — 1 mark

Q3. State whether the following statement is True or False: Evolution is the gradual change occurring in living organisms over a long duration. — 1 mark

Q4. Vinegar contains ..... acid. (A) acetic (B) lactic (C) tartaric (D) hydrochloric — 1 mark

Q5. Which of the following animals can regenerate its broken body part? (A) Cockroach (B) Frog (C) Sparrow (D) Starfish — 1 mark

Q6. Give any two commercial uses of Biotechnology. — 1 mark

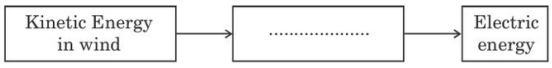
Q7. Write co-relation: Skin : Melanin : : Pancreas : ..... — 1 mark

Q8. Reorganize the following food chain: Grasshopper - Snake - Paddy field - Eagle - Frog. — 1 mark

Q9. Write the correct co-relation: Diabetes : Insulin : : Cancer : ..... — 1 mark

Q10. Fill in the box with proper word: Kinetic Energy in wind -> ..... -> Electric energy. — 1 mark

(*iv*) Fill in the box with proper word :



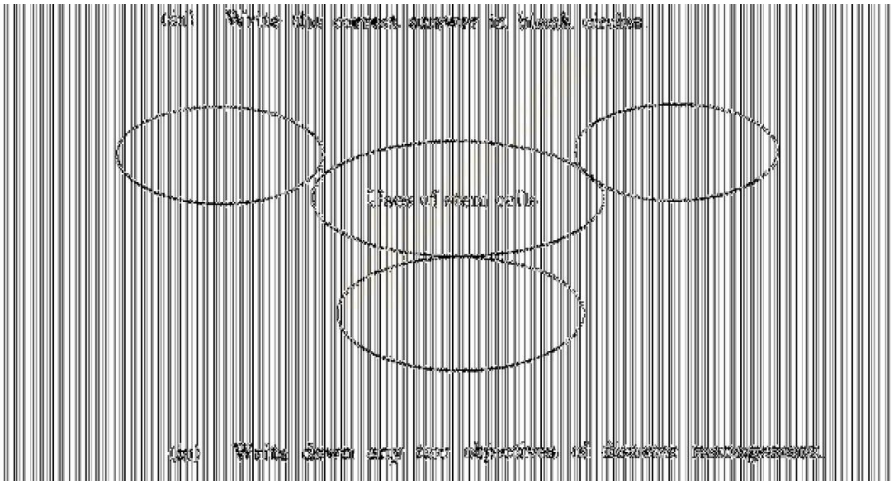
(*v*) Match the correct pair :

Column A	Column B

Section 2

Q2(A) give scientific reasons (any two of three) and Q2(B) two-mark subquestions (any three of five)

Q11. Write the correct answer in blank circles: Uses of stem cells. [complete the concept diagram] 2 marks



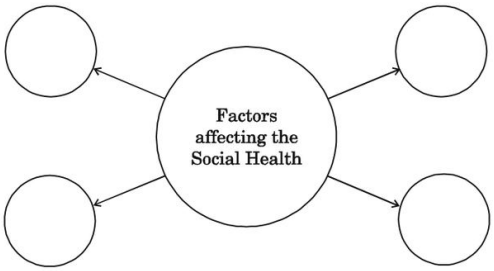
Q12. Write any two objectives of disaster management. 2 marks

Q13. Give scientific reason: Hydroelectric energy, solar energy and wind energy are called renewable energies. 2 marks

Q14. Distinguish between Sexual reproduction and Asexual reproduction. 2 marks

Q15. Redraw and complete the given chart: Factors affecting the Social Health. 2 marks

(*ii*) Redraw and complete the given chart.



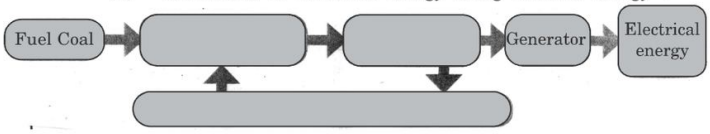
Section 3
Q3 three-mark questions (any five of eight)

Q16. (a) Define vestigial organs. (b) Write names of any two vestigial organs in human body. (c) Write the names of any two vestigial organs which are non-functional in human beings but functional in other organisms. 3 marks

Q17. Complete the following flow chart: (a) Generation of electrical energy using thermal energy - Fuel Coal. (b) Energy transformation in thermal power plant - Chemical energy in coal -> Electrical energy. 3 marks

(*iv*) Complete the following flow chart :

(*a*) Generation of electrical energy using thermal energy :



(*b*) Energy transformation in thermal power plant :



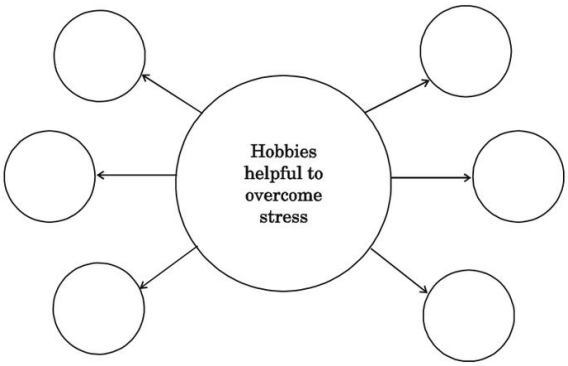
(*v*) Complete the paragraph with the help of words given in the

Q18. Name the type of cells in which mitosis occur? Write four stages of karyokinesis. 3 marks

Q19. Which fuel is used in thermal power plant? What are the problems associated with this type of power generation? 3 marks

Q20. Complete the following chart: Hobbies helpful to overcome stress. 3 marks

(*v*) Complete the following chart :

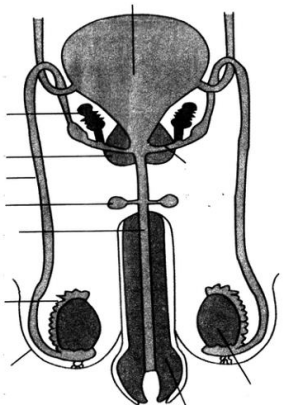


(*vi*) Write names of any *six* materials which are to be in the first

Section 4
Q4 five-mark question (any one of two)

Q21. [context: diagram of human reproductive system] Observe the diagram given below and answer: (1) Write the name of the reproductive system in the above diagram. (2) Name any two glands in the above diagram. (3) Mention any one duct in the above system. (4) What is the length of a sperm? (5) Which hormone is secreted by the testes? 5 marks

(*ii*) Observe the diagram given below and answer the questions :



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