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Virudhunagar District Common Examinations Second Revision Test - February 2023

| St | a | n | da | r | d | 1 | O |
|----|---|----|----|---|---|---|---|
| 9 | S | C1 | E | N | C | E | |

| Maximum M | larks: | 75 |
|-----------|--------|----|
|-----------|--------|----|

Time: 3.00 Hrs.

| | | | PART - I | Į. | | | |
|-----|------------|-----------------------|---|----------------------|---------------------------|--|--|
| No | te: | i) Answerall que | stions. | | 12×1=12 | | |
| | | ii) Choose the $f mc$ | st suitable allswe | er. | | | |
| | 1) | Impulse is equals | | b) rate of force | d Maria | | |
| | | | | , | b) rate of force and time | | |
| | 21 | c) change of mom | | a) rate of change | d) rate of change of mass | | |
| | 2) | SI unit of resistar | | a) a b a a | d) ohm meter | | |
| | 21 | a) mho | , | , | d) ohm meter | | |
| | 3) | | is used for the treat | | d) Radio Nickel | | |
| | 4) | | b) Radio Cobalt | | d) Kadio Weker | | |
| | 4) | group co | ontains the member b) 15 th | or naiogen rainily. | d) 16 th | | |
| | 5 \ | a) 17 th | , | | u) 10 | | |
| | 5) | | for marble is b) Ca(OH) ₂ | | d) $CaCO_3$ | | |
| | C \ | a) CaO | | | 3 | | |
| | 6) | | resents co b) vitamin | | d) carbohydrate | | |
| | 7) | | h give birth to youn | | , | | |
| | /) | a) Ovinarous | h) Vivinarous | c) Ovoviviparous | d) All the above | | |
| | 0) | During transpirati | on there is loss of | | | | |
| | | a) Carbon diovide | b) Oxygen | c) Water d) N | lone of the above | | |
| | ٥١ | To increase the | sugar production in | n sugarcanes they a | are sprayed with | | |
| | 9) | | | | | | |
| | | a) Auxin | b) Cytokinin | c) Gibberellins | d) Ethylene | | |
| | 10) | The contramora is | found at the centre | e of the cnr | omosome. | | |
| | | a) Telocentric | b) Metacentric | c) Sub-metacenti | c d) Acrocciterio | | |
| | 11) | The 'use and disu | se theory' was prop | osed by | | | |
| | 11) | a) Charles Darwin | | b) Ernst Haeckei | | | |
| | | c) Jean Baptiste L | amarck | d) Gregor Mendel | | | |
| | 12) | is a biosp | ohere reserve in Tam | nil Nadu. | | | |
| | | a) Nilgirís | b) Covai | c) Ooty | d) Chennai | | |
| | | | | | | | |
| | | | PART - II | | | | |
| Ans | wer | any 7 questions: | [Q.No. 22 is comp | ulsory] | 7×2=14 | | |
| | 13) | Differentiate mass | and weight. | | | | |
| | 14) | Define dispersion of | of light. | | | | |
| | 15) | What happens to | the resistance, as t | he conductor is mad | e thicker? | | |
| | 16) | What is aqueous a | nd non-aqueous sol | ution? Give an exam | pie. | | |
| | 17) | Name the three ba | asic tissues system | in flowering plants. | | | |
| | (8) | Name the seconda | ry sex organs in ma | ile. | | | |
| | (9) | Why is Archaeopte | eryx considered to b | e a connecting link? | | | |
| 2 | 20) | What are the cons | sequences of defore | estation? | | | |
| 2 | 1) | What is sprite? | | | A. | | |
| | 22) | Calculate the veloc | city of moving body | of mass 5 kg whose | inear momentum | | |

is 2.5 kg ms^{-1} .

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PART-III

Answer any 7 questions: [Q.No. 32 is compulsory]

 $7 \times 4 = 28$

- 23) Differentiate the eye defects: Myopia and Hypermetropia
- 24) a) What is an echo? State two conditions necessary for hearing an echo?
 - b) What are the medical applications of echo?
- 25) a) State Soddy and Fajan's displacement law.
 - b) Give any two uses of radio isotopes in the field of agriculture.
- 26) Differentiate soaps and detergents.
- 27) a) Differentiate Aerobic and Anaerobic respiration.
 - b) What is the common step in aerobic and anaerobic pathway?
- 28) Where are estrogens produced? What is the role of estrogens in the human body?
- 29) With a neat labelled diagram describe the parts of a typical angiospermic
- 30) Natural selection is a driving force for evolution How?
- 31) What precautions can be taken for preventing heart diseases?
- 32) Calculate the pH of $0.01M \ HNO_3$.

PART-IV

Answer ALL questions. Each question carries seven marks: [Draw diagram wherever necessary]

 $3 \times 7 = 21$

- 33) a) State and prove the law of conservation of linear momentum.
 - b) Classify the types of force based on their application.

(OR)

- a) What is meant by electric current?
- b) Name and define its unit.
- c) Which instrument is used to measure the electric current? How should it be connected in a circuit?
- 34) a) State Avogadro's law.
 - b) Write any 3 applications of Avogadro's law.
 - c) Define Relative atomic mass.

(OR)

- a) What is homologous series? Give any three of its characteristics.
- b) An organic compound 'A' is widely used as a preservative and has the molecular formula $C_2H_4O_2$. This compound reacts with ethanol to form a sweet smelling compound 'B'.
 - i) Identify the compound 'A'.
 - ii) Write the chemical equation for its reaction with ethanol to form compound 'B'.
 - iii) Name the process.
- 35) Explain the male reproductive system of rabbit with a labelled diagram.

(OR)

- a) What are the consequences of soil erosion?
- b) Why fossil fuels are to be conserved?