2ndR-Nmk

SECOND REVISION TEST - Feb. 2023

| 1 | Oth | 430) | Std. |
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SCIENCE

| Time: 3.00 Hrs. | | Marks: 75 |
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| And the property of the proper | PART - I | |
| I. Choose the best answer. | -,- | 12 X 1 = 12 |
| 1. The unit of 'g' is ms ⁻² . It can be also expr a) cms ⁻¹ b) Nkg ⁻¹ | ressed as | Januar Santa |
| 2. If VB, VG VR be the velocity of blue, gree the following statement gives the correct re a) VB, = VG = VR b) VB,> VG > VR | | |
| 3. In the given diagram, the possible direction a) A ←B, A ←C, B ←C, b) A c) A →B, A ←C, B →C, d) A 4. The frequency, which is audible to the human 50 kHz b) 20 kHz | $A \rightarrow B$, $A \rightarrow C$, $B \rightarrow C$, $A \leftarrow B$, $A \rightarrow C$, $B \leftarrow C$, man ear is | 303 k A 304 k 305 k B C |
| 5 is an important metal to from an | | |
| a) Ag b) Hg | c) Mg d) Al | |
| 6. In the nucleus of 20 Ca ⁴⁰ , there are | | |
| a) 20 protons and 40 neutrons c) 20 protons and 40 electrons | b) 20 protons and 20 neutrons d) 40 protons and 20 electrons | |
| 7. $H_{2(g)} + Cl_{2(g)} \rightarrow 2HCl_{(g)}$ is a | | ** |
| a) Decomposition reaction | b) Combination reaction | |
| c) Single Displacement reaction | d) Double displacement reaction | |
| 8. Which of the following statements is wrong a) It is a sodium salt of long chain fatty at c) The ionic part in a detergent is - SO ₃ | cids. b) It is sodium salts of | |
| 9. Which is the correct sequence of blood flo a) Ventricle - atrium - vein - arteries c) atrium - ventricle - arteries - vein | b) atrium - ventricle - veins - arteries d) Ventricles - vein - alrium - arteries | |
| 10. Which nervous band connects the two cer a) Thalamus b) Hypothalamus | c) Corpus callosum d) Pons | |
| a) Vector DNA b) Circular DNA d) Satellite DNA | c) Recombinant of vector DNA ar | nd desired DNA |
| 12. Which software is used to create animation | on? | |
| a) Paint b) PDF | c) MS Word d) Scratch | |
| | PART - II | w ** a |
| Answer any 7 questions. (Question No.22 | is compulsory) | 7 % 2 = 1 |
| 13. Classify the types of force based on their | | |
| 14. Write any two elements which are used for | r inducing radioactivity? | |
| 15. Fill in the blanks.i) The component present in lessor amountii) Solubility is the amount of solute disso | nt, in a solution is calledblved isg of solvent. | |

www.Padasalai.Net - No.1 Educational Website in Tamilnadu 16. When an aqueous solution of potassium chloride is added to an aqueous solution of silver nitrate, a white precipitate is formed. Give the chemical equation of this reaction. 17. Assertion and Reason. Assertion: Detergents are more effective cleansing agents than soaps in hard water. Reason : Calcium and magnesium salts of detergents are water solution. b) A is correct, R is wrong a) A and R are correct, R explains the A. d) A and R are correct, R doesn't explains A. c) A is wrong, R is correct 18. Write the dental formula of rabbit. 19. Match the following Trisomy 21 i) Autosomes 9:3:3:1 ii) Diptoid condition 22 pair of chromosome ïii) Allosome iv) Down's syndrom 23rd pair of chromosome 20. State true or false. Correct the false statements. i) The use and disuse theory of organs was postulated by charles darwin. ii) Birds have evolved from reptiles 21. How are e-wastes generated? 22. How many electrons are passing per second in a circuit in which there is a current of 5A? PART-III $7 \times 4 = 28$ Answer 7 questions: (Question No. 32 is compulsory) 23. Differentiate any four points of the eye defects: Myopia and Hypermeteropia. 24.i) What is co-efficient of real expansion? ii) What is co-efficient of apparent expansion? 25. i) What is a longitudinal wave? ii) What is the audible range of frequency? 26. A is a reddish brown metal, which combines with O2 at <1370 k gives B, a black coloured compound. At a temperature > 1370 k, A gives C which is red in colour. Find A,B and C with reaction. 27. What is aqueous and non-aqueous solution? Give an example. 28. Differentiate: Aerobic and Anaerobic respiration. 29. What are the hormones secreted by posterior lobe of the pituitary gland? Mention the tissues on which they exert their effect. 30. How can menstrual hygiene be maintained during menstrual days? 31. How is a cancer cell different from a normal cell? 32. Find the percentage of nitrogen in annonia. PART - IV $3 \times 7 = 21$ Answer all the questions: 33. What are the types of inertia? Give an example for each type. (or) a) What are the advantages of LED TV over the normal TV? b) List the merits of LED bulb.

34. Explain the factors influencing the rate of a reaction. (OI)

An organic compound 'A' is widely used as a preservative and has the molecular formula C2H4O2. This compound reacts with ethanol to form a sweet smelling compound 'B'.

i) Identify the compound 'B'

- ii) Write the Chemical equation for its reaction with ethanol to form compound 'B'.
- iii) Name the process.
- 35. Classify neurons based on its structure.

a) Give the name of wheat variety having higher dietary fibre and protein.

- b) Name the types of stem cells.
- c) What are transgenic organism.
- d) Name two maize hybrids rich in amino acid lysine,