

class : 9

Register
Number

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COMMON ANNUAL EXAMINATION - 2024-25

Time Allowed: 3.00 Hours]

SCIENCE

(Max. Marks: 75)

$$12 \times 1 = 12$$

- I. Choose the correct answer.
1. Clouds float in atmosphere because of their low -----
 a) density b) Pressure c) Velocity d) Mass
 2. Heating effect of current is called -----
 a) Joule heating b) Coulomb heating c) Voltage heating d) Ampere heating
 3. Transformer works on -----
 a) AC only b) DC only c) Both AC and DC
 4. Ceres is a -----
 a) Meteor b) Star c) Planet d) Asteroid
 5. Bond formed between a metal and non metal atom is usually -----
 a) Ionic bond b) Covalent bond c) Coordinate bond
 6. Graphene is one atom thick layer carbon obtained from -----
 a) Diamond b) fullerene c) graphite d) gas carbon
 7. One Nanometre is -----
 a) 10^7 metre b) 10^{-6} metre c) 10^{-4} metre d) 10^{-1} metre
 8. Excretory Organ of tape Worm is -----
 a) flame cells b) nephridia c) body surface d) solenocytes
 9. Bile helps in the digestion of -----
 a) Proteins b) sugar c) fats d) Carbohydrates
 10. Diphtheria affects the -----
 a) lungs b) throat c) blood d) liver
 11. ----- is the method of growing plants without soil
 a) Horticulture b) Hydroponics c) Pomology d) None of these
 12. A presentation consists of many -----
 a) Pages b) Slides c) Placeholders d) messages
- II. Answer any seven 7 questions only. Question No : 22 is compulsory.
13. State Pascal's law.
 14. Compare speed and Velocity.
 15. Match the following.
- | | |
|--------------------------|-----------|
| i) Electric Charge | - Ohm |
| ii) Potential difference | - ampere |
| iii) Electric current | - Coulomb |
| iv) Resistance | - Volt |

CH / JI / 9 / Sci / 1

- Parool LTT.
16. Ice is kept in a double - walled container. Why?
 17. State whether true or false. If false correct the Statement
 - Halley's comet appears after nearly 67 hours
 - The maximum number of electron in L shell is 10
 18. Define Aqua regia
 19. What is nematocyst?
 20. Draw the structure of stomata and label the parts.
 21. Mention any two mushroom preservation methods.
 22. The frequency of a source of sound is 600 Hz. Calculate the number of times it vibrates in a minute.

III. Write any seven question in detailed. (Q.No.32 is compulsory) $7 \times 4 = 28$

23. Write the rules that are followed in writing the symbols of units in SI system.
24. Differentiate convection and radiation.
25. Write the differences between elements and compounds and give an example for each.
26. Mention the uses of Robotic arms.
27. Write all possible isomers of C_2H_6O .
28. List out the differences between mitosis and Meiosis.
29. Explain the Structure of nephron.
30. Enumerate the advantages of Vermicompost over chemical fertilizer.
31. What is IUCN? What is the vision of IUCN?
32. Find the oxidation number of the element in the following compounds.

- a) C in CO_2 b) N in HNO_3

IV. Answer all the question. $3 \times 7 = 21$

33. a) Draw a neat diagram of a AC generator and explain its working. (OR)
 b) i) What is meant by supersonic speed? (2)
 ii) Verify experimentally the laws reflection of sound? (5)
34. a) i) List down the differences between ionic and Covalent compounds. (5)
 ii) Why are noble gases inert in nature. (2) (OR)
 b) i) Explain the types of dyes based on their method of application. (5)
 ii) What is Radio Carbon Dating? (2)
35. a) i) Give an account of Phylum Arthropoda. (5)
 ii) What is nastic movement. (2) (OR)
 b) How are Vitamins useful to us? Tabulate the sources, deficiency / diseases and symptoms of fat soluble Vitamins.

Class : 9

Chennai district

Register
NumberPrepared by
Raji (Jn02) 2107

21/4/25

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SCIENCE

[Max. Marks : 75

12x1 = 12

- I. Choose the correct answer.
1. Clouds float in atmosphere because of their low _____.
 - a) density
 - b) Pressure
 - c) Velocity
 - d) Mass
 2. Heating effect of current is called _____.
 - a) Joule heating
 - b) Coulomb heating
 - c) Voltage heating
 - d) Ampere heating
 3. Transformer works on _____.
 - a) AC only
 - b) DC only
 - c) Both AC and DC
 4. Ceres is a _____.
 - a) Meteor
 - b) Star
 - c) Planet
 - d) Asteroid
 5. Bond formed between a metal and non metal atom is usually _____.
 - a) Ionic bond
 - b) Covalent bond
 - c) Coordinate bond
 6. Graphene is one atom thick layer carbon obtained from _____.
 - a) Diamond
 - b) fullerene
 - c) graphite
 - d) gas carbon
 7. One Nanometre is _____.
 - a) 10^{-7} metre
 - b) 10^{-8} metre
 - c) 10^{-6} metre
 - d) 10^{-9} metre $10^{-9} \text{ m} \cancel{\text{metre}}$
 8. Excretory Organ of tape Worm is _____.
 - a) flame cells
 - b) nephridia
 - c) body surface
 - d) solenocytes
 9. Bile helps in the digestion of _____.
 - a) Proteins
 - b) sugar
 - c) fats
 - d) Carbohydrates
 10. Diphtheria affects the _____.
 - a) lungs
 - b) throat
 - c) blood
 - d) liver
 11. _____ is the method of growing plants without soil.
 - a) Horticulture
 - b) Hydroponics
 - c) Pomology
 - d) None of these
 12. A presentation consists of many _____.
 - a) Pages
 - b) Slides
 - c) Placeholders
 - d) messages
- II. Answer any seven 7 questions only. Question No : 22 is compulsory. $7 \times 2 = 14$
13. State Pascal's law. Pressure applied on liquid is transmitted uniformly throughout liquid.
 14. Compare speed and Velocity. Speed : Scalar quantity unit m s^{-1} . Velocity : vector quantity unit m s^{-1} . Displacement/time.
 15. Match the following.

i) Electric Charge	- Ohm Ω .
ii) Potential difference	- ampere A .
iii) Electric current	- Coulomb C .
iv) Resistance	- Volt V .

CH/J/9/Sci/1

16. Ice is kept in a double - walled container. Why? Vacuum between walls prevent heat to pass inside or outside.
17. State whether true or false. If false correct the Statement
- Halley's comet appears after nearly 67 hours 7.6 Years - False
 - The maximum number of electron in L shell is 10 - False
18. Define Aqua regia Mixture of HCl & HNO₃
19. What is nematocyst? Stinging cells in tentacles of coelenterates
20. Draw the structure of stomata and label the parts.
21. Mention any two mushroom preservation methods. Freezing, Drying
22. The frequency of a source of sound is 600 Hz. Calculate the number of times it vibrates in a minute. $1800 = 60 \text{ Hz}$
 $\therefore 1 \text{ minute} = 600 \times 60 = 36000 \text{ Hz (Ans.)}$
- III. Write any seven question in detailed. (Q.No.32 is compulsory) $7 \times 4 = 28$
23. Write the rules that are followed in writing the symbols of units in SI system.
24. Differentiate convection and radiation.
25. Write the differences between elements and compounds and give an example for each.
26. Mention the uses of Robotic arms.
27. Write all possible isomers of C₂H₆O.
28. List out the differences between mitosis and Meiosis.
29. Explain the Structure of nephron.
30. Enumerate the advantages of Vermicompost over chemical fertilizer.
31. What is IUCN? What is the vision of IUCN? International Union for Conservation of Nature & Natural Resources.
32. Find the oxidation number of the element in the following compounds.
- a) $x + 2(\frac{a}{2}) = 0$ b) N in HNO₃ $x + 1 + 2 + 3(-2) = 0$
 $x = +4$ $1 + x - 6 = 0$
 $x = 5$
- IV. Answer all the question. $3 \times 7 = 21$
33. a) Draw a neat diagram of a AC generator and explain its working. (OR)
 b) i) What is meant by supersonic speed? (2)
 ii) Verify experimentally the laws reflection of sound? (5)
34. a) i) List down the differences between ionic and Covalent compounds. (5)
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