

Half Yearly Model Question Paper -2019

CLASS:9

SUB : SCIENCE

TOTAL MARK :75

TIME :3Hr

I. Choose the correct answer

(12X1=12)

1. Clouds float in atmosphere because of their low
(a) density (b) pressure (c) velocity (d) mass
2. In an electrolyte the current is due to the flow of
a) electrons b) positive ions c) both (a) and (b) d) neither (a) nor (b)
3. The unit of magnetic flux density is
a) Weber b) weber/metre c) weber/meter² d) weber . meter²
4. _____ has the same properties throughout the sample
a) Pure substance b) Mixture c) Colloid d) Suspension
5. Elements in the modern periodic table are arranged in groups and periods.
a) 7, 18 b) 18, 7 c) 17, 8 d) 8, 17
6. The hydrated salt of copper sulphate has colour (red, white, blue).
7. The animal without skull is (a) Acrania (b) Acephalia (c) Apterina (d) Acoelomate
8. The non-directional movement of a plant part in response to temperature is called _____.
a) Thermotropism b) Thermonastyn c) Chemotropism d) Thigmonasty
9. Diphtheria affects the ____ a. lungs b. throat c. blood d. liver
10. _____ is an electronic device which stores data and information.
a) Telescope b) Television c) Computer d) Radio
11. Smooth muscles occur in a. uterus b. artery c. vein d. All of the above.
12. Bile helps in the digestion of _____ a. proteins b. sugar c. fats d. carbohydrates

II. Answer Any 7 Question (Qu No : 22 Compulsory)

(7X2=14)

13. 1.Length kelvin
2. Mass metre
3. Time kilogram
4. Temperature second
14. State whether true or false. If false, correct the statement
 1. The weight of fluid displaced determines the buoyant force on an object.
 2. The shape of an object helps to determine whether the object will float or not.
15. State Fleming's Left Hand Rule
16. Identify the compounds as Ionic/ Covalent/Coordinate based on the given characteristics.
 - a. Soluble in non polar solvents b. Undergoes faster/instantaneous reactions
 - c. Non conductors of electricity d. Solids at room temperature
17. 1. The basis of the classifications proposed by Dobereiner, Newlands and Mendeleev was____
2. Example for liquid metal is ._____
18. What are nucleons? How many nucleons are present in Phosphorous? Draw its structure.?

19. What are the different steps involved in data processing?
- 20.1. Bile, secreted by liver is stored temporarily in _____.
2. The longest part of alimentary canal is _____
21. What is complex tissue? Name the various kinds of complex tissues
22. Distinguish between Virion and Viroid.

III. Answer Any 7 Question (Qu No : 22 Compulsory)

(7X4=28)

23. a) Compare -speed and velocity?
b) Write the rules that are followed in writing the symbols of units in SI system.
24. List the safety features while handling electricity.?
25. Bring out any two differences between input and output devices.
26. Explain Tyndall effect and Brownian movement with suitable diagram..
27. Find the oxidation number of the elements in the following compounds. a). C in CO_2 b). Mn in MnSO_4
28. Write any four uses of acids.
29. 1. Differentiate
a) Kwashiorkar from Marasmus
b) Macronutrients from Micronutrients
30. How will you differentiate the different types of transpiration?
- 31 1.)Mention any two vital functions of human kidney.
2) What is micturition?
- 32.a) . Light enters from air into a glass plate having refractive index 1.5. What is the speed of light in glass?
b) . A racing car has a uniform acceleration of 4 ms^{-2} . What distance it covers in 10 s after the start?

IV Answer All the Question

(3X7=21)

33. a) 1. Derive the equations of motion by graphical method.
2. State the laws of flotation. (or)
b) 1. Explain two types of transformer.
2. Pick out the concave and convex mirrors from the following and tabulate them.
(Rear-view mirror, Dentist's mirror, Torchlight mirror, Mirrors in shopping malls, Make-up mirror)
- 34.a) 1. State any five features of modern periodic table.
2. Write a note on different types on bonds. (or)
b) 1) Explain the postulates of Bohr's atomic model
2. What is neutralization reaction? Give an example.
35. a) 1. List out the differences between mitosis and meiosis
2. What is the consequence that occur if all blood platelets are removed from the blood? (or)
b) Explain the structure of kidney and the steps involved in the formation of urine?

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