

K

COMMON QUARTERLEY EXAMINATION - 2019

Standard IX

Reg.No. :

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Time: 2.30 hours.

SCIENCE

Marks: 100

12 x 1 = 12

I. Choose the correct answer:

1. Choose the correct one.
 - a) $mm < cm < m < km$
 - b) $mm > cm > m > km$
 - c) $km < m < cm < mm$
 - d) $mm > m > cm > km$
2. Unit of acceleration is
 - a) ms^{-1}
 - b) ms^{-2}
 - c) ms
 - d) ms^2
3. Clouds float in atmosphere because of their low _____.
 - a) density
 - b) pressure
 - c) velocity
 - d) mass
4. Heating effect of current is called _____.
 - a) Joule heating
 - b) Coulomb heating
 - c) Voltage heating
 - d) Ampere heating
5. In petroleum refining the method of separation used is _____.
 - a) sublimation
 - b) distillation
 - c) fractional distillation
 - d) chromatography
6. The correct electronic configuration of potassium is
 - a) 2,8,9
 - b) 2,8,1
 - c) 2,8,8,1
 - d) 2,8,8,3
7. Elements in the modern periodic table are arranged in _____ groups and _____ periods.
 - a) 7,18
 - b) 18,7
 - c) 17,8
 - d) 8,17
8. Excretory organ of tape worm is
 - a) flame cells
 - b) nephridia
 - c) body surface
 - d) solenocytes
9. The fibres consists of
 - a) parenchyma
 - b) sclerenchyma
 - c) collenchyma
 - d) none of above
10. Transpiration takes place through _____.
 - a) fruit
 - b) seed
 - c) stomata
 - d) flower
11. _____ is an electronic device which stores data and information.
 - a) telescope
 - b) television
 - c) computer
 - d) radio
12. Data processing involves _____ steps.
 - a) 7
 - b) 4
 - c) 6
 - d) 8

II. Answer any 10 questions:

10 x 2 = 20

13. Define standard unit.
14. Distinguish distance and displacement.
15. Why does a helium balloon float in air?
16. State Pascal's law.
17. Fill in the blanks:
 - a) The direction opposite to the movement of electron is called _____ current.
 - b) The domestic electricity in India is an ac with a frequency of _____ Hz.
18. Match the following:
 1. Electric charge - a) Ohm
 2. Potential difference - b) Ampere
 3. Resistance - c) Volt
 4. Electric current - d) Coulomb

19. Define Sublimation.
20. Write the electronic configuration of K and Cl.
21. Write down the names of the particles represented by the following symbols and explain the meaning of superscript and subscript numbers attached, ${}_1\text{H}^1$, ${}_0\text{n}^1$, ${}_{-1}\text{e}^0$.
22. Assertion and Reason:
 Statement : Elements in a group generally possess similar properties but elements along a period have different properties.
 Reason : The difference in electronic configuration makes the element differ in their chemical properties along a period.
- a) Statement is true and Reason explain the statement
 b) Statement is false but the Reason is correct
23. Match the following

Group	Families
1	Halogens
15	Noble gases
16	Chalcogen family
17	Nitrogen family
	Alkali metals

24. State whether true or false. If false, correct the statement.
 1) Fishes have three chambered heart.
 2) Skin of reptilians are smooth and moist.
25. Draw the diagram of Neuron and label the parts. (any 4)
26. Mention four factors required for photosynthesis?

10 x 4 = 40

III. Answer any 10 questions:

27. Write the rules that are followed in writing the symbols of units in SI system. (any 4)
28. Derive "First equation of motion" by graphical method.
29. 1) Why it is easy to swim in river water than in sea water?
 2) State the laws of floatation.
30. Match the following:

S.No.	Symbol	Device
1.		DC Power supply
2.		AC Power supply
3.		Cell
4.		Switch
5.		Ammeter
6.		Galvanometer

7. Voltmeter
8. Bell

31. Write the difference between mixtures and compounds.
32. Explain the postulates of Bohr's atomic model.
33. State any four features of modern periodic table.
34. Outline the flow charts of phylum chordata.
35. What is the consequence that occurs if all blood platelets are removed from the blood?
36. Write the difference between xylem and phloem.
37. 1. Define Transpiration.
 2. What is Chlorophyll?
38. 1. Differentiate phototropism from photonasty.
 2. Mention the difference between stomatal and lenticular transpiration.
39. Draw the structure of oxygen and sulphur atoms.
40. Complete the following table.

Atomic number	Mass number	Number of Neutrons	Number of Protons	Number of Electrons	Name of the Elements
9	-	10	-	-	-
16	-	16	-	-	-

4 x 7 = 28

IV. Answer in detail:

41. Explain a method to find the diameter of a spherically body. (or)
42. a) Explain the construction of a hydrometer with diagram.
 b) How are the home appliances connected in general in series or parallel. Give reasons.
43. State the Gay Lussac's law of combining volumes. Explain with an illustration. (or)
44. a) State modern periodic law.
 b) What are groups and periods in the modern periodic table?
 c) What are the limitations of Mendelëev's periodic table?
45. Describe the characteristic features of different prochordates. (or)
46. Give an account of Phylum Arthropoda.
47. List out the differences between mitosis and meiosis. (or)
48. Difference between tropic and nastic movements.

dry

Quarterly Exam-2019
Science Answer key
IXth Standard.

- 1) choose the best answer.
1) a 2) b 3) a 4) a
5) C 6) C 7) a 8) a
9) b 10) C 11) C 12) b

2 marks

13) Unit: A specific magnitude of a physical quantity that has been adopted by law (or) convention.

14) Distance

(i) The actual path length of the path travelled by a moving body irrespective of the direction is called distance.
(ii) It is scalar quantity
(iii) Unit is metre

15) Helium balloons float in a, because Helium gas is less dense than air.

16) Pascal Law: - The external pressure applied on an incompressible liquid is transmitted uniformly throughout the liquid.

17) (i) conventional current
(ii) 50 Hz.

18) Match.

- Electric charge - Coloumb
- Potential difference - Volt
- Resistance - Ohm

19) Sublimation: - Solid substance when heated change directly from solid to gaseous state without attaining liquid state. The vapours when cooled give back the solid substance.
Ex: Camphor, Iodine.

20) The electronic configuration
K - Potassium - 2, 8, 8, 1
Cl - Chlorine - 2, 8, 7

21) Protium, ~~neutron~~, neutron, electron
Superscript - 1, 1, 0
Subscript - 1, 0, -1

Displacement.

Change in position of a moving body in a particular direction.

It is vector quantity.
Unit is metre.

22) Statement is true and Reason explain the statement.

23) Match the following

Group	Families.
1	Alkali metals
15	Nitrogen family
16	Chalcogen family
17	Halogen family

24) (a) False (b) False.
Four - Two

25) Book Page no: 219.

26) Sunlight, CO₂, Chlorophyll water.

27) Book page no: 4 - 5

28) Book page no: 20.

29) Book page no:

(i) The question is wrong. It is easier to swim in sea water than the river water. Because sea water has great density larger buoyant.

(ii) Book Page no: 35

30) 1. Switch 2) cell.
3) DC power supply
4. AC power supply
5. Ammeter 6. bell
7) voltmeter 8. Galvanometer

31) Book page no: 116.

32) Book page no: 127

33) Book page no: 139.

34) Book page no: 204

35) Book page no: 218

36) Book page no: 213

37) (i) Book page no: 229
(ii) Green plants present in the chlorophyll. It is a green pigment.

38) (i) Book page no: 226 - 227

(ii) Book page no: 229.

39) Book page no: 131

40) Book page no: 136

7 marks

41) Book page no: 5

(or)

42) Book page no: (i) 33
(ii) 45

43) Book page no: 134

(or)

44) Book page no: (i) 141
(ii) 140

45) Book page no: 204

(or)

46) Book page no: 203

47) Book page no: 222

(or)

48) Book page no: 228

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