



Standard 9

SCIENCE
PART - I

Time: 3.00 Hours

Marks: 75

Note: i) Answer all the questions

12x1=12

ii) Choose the most suitable 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) The centrifugal force is
 - a) a real force
 - b) the force of reaction of centripetal force
 - c) a virtual force
 - d) directed towards the centre of the circular path.
- 3) The size of an air bubble rising up in water

a) decreases	b) increases
c) remains same	d) may increase or decrease
- 4) is essential to perform separation by solvent extraction method.

a) separating funnel	b) filter paper
c) centrifuge machine	d) sieve
- 5) The valency of Neon is

a) 1	b) 0	c) 3	d) 4
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- 6) Elements in the modern periodic table are arranged in groups and periods.

a) 7, 18	b) 18, 7	c) 17, 8	d) 8, 17
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- 7) The animal without skull is

a) Acrania	b) Acephalia	c) Apterina	d) Acoelomate
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- 8) Smooth muscles occur in

a) uterus	b) artery	c) Vein	d) All of the above
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- 9) Which tissue is provide mechanical support for growing organs.

a) Parenchyma	b) Collenchyma	c) Sclerenchyma	d) Aerenchyma
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- 10) Transpiration takes place through

a) fruit	b) seed	c) flower	d) stomata
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- 11) The bending of root of a plant in response to water is called

a) Thigmonasty	b) Phototropism	c) Hydrotropism	d) Photonasty
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- 12) A presentation consists of many

a) pages	b) slides	c) placeholders	d) messages
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PART - II

Note: Answer any seven questions:

7x2=14

(Q.No 22 is compulsory)

- 13) Write the rules that are followed in writing the symbols of units in SI system.
- 14) Distinguish distance and displacement
- 15) State Pascal's law.
- 16) A few drops of 'Dettol' when added to water the mixture turns turbid. Why?
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V9S

17) Match:

- | | |
|---------------------------|-----------------|
| i) Alkalimetal | - Newlands |
| ii) Law of octaves | - Calcium |
| iii) Alkaline Earth metal | - Henry Moseley |
| iv) Modern Periodic Law | - Sodium |

18) How does locomotion take place in starfish?

19) Why should gametes be produced by meiosis during sexual reproduction?

20) What is photosynthesis?

21) What is Libre office Impress?

22) Density of mercury is 13600kgm^{-3} . Calculate the relative density.**PART - III****Note : Answer any seven questions:**

7x4=28

(Q.No. 32 is compulsory)

- 23) i) Define least count of any device
ii) Differentiate mass and weight
- 24) Derive the equations of motion by graphical method.
- 25) i) Why does a helium balloon float in air?
ii) State the laws of flotation
- 26) Explain the postulates of Bohr's atomic model.
- 27) What are the limitations of Mendeleev's periodic table?
- 28) Give an account on phylum Annelida.
- 29) Write about the elements of Xylem.
- 30) How will you differentiate the different types of transpiration?
- 31) a) What is nematocyst?
b) What is chlorophyll?
- 32) Calculate the number of neutrons, protons and electrons
i) atomic number 3 and mass number 7
ii) atomic number 92 and mass number 238

PART - IV**Note : Answer all the questions:**

3x7=21

(Draw diagram wherever necessary)

33) How will you find the thickness of a one rupee coin?

(OR)

Explain the construction and working of a hydrometer with diagram.

34) Write the differences between elements and compounds and give an example for each.

(OR)

- i) State modern periodic law
ii) State any five features of modern periodic table
- 35) i) List five characteristic features of fishes
ii) Define taxonomy

(OR)

- i) List out the differences between mitosis and meiosis
ii) What is nastic movement?

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