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Common Half Yearly Examination - December 2025

Standard 9

	Standard	9	
Time A	lowed: 3.00 Hours SCIENCE		Maximum Marks: 75
1. 19	Part-I		
	the correct answer:	Armerican State	12×1=12
1)	. In current electricity, a positive charg	e refers to,	f proton
. 7	a) Presence of electron c) Absence of electron	b) Presence of d) Absence of	proton
2)	Which among the following is not a de		
	a) Spring balance b) Beam balance		
All	c) Physical balance d) Digital balance		
3)	When the reflecting surface is curved outwards the mirror formed will be		
	a) concave mirror	b) plane mirror	
	c) convex minor	d) spherical mirror	
4)	Elements in the modern periodic table periods.	e are arranged in	ngroups and
- 1	a) 7,18 🔊 🔊 18,7	c) 17,8	d) 8,17
5)	Elements with stable electronic configuration valence shell. They are	urations have e	ight electrons in their
1.00		noble gases	d) non-metals
6)	When we mix a drop of link in water we get a		
	a) Heterogeneous mixture	b) Compound	
	cy Homogeneous mixture d) Suspension		
. 7)	The structural and functional unit of to a) Villi b) Liver	he kidney is	
	a) Villi b) Liver	e) Nephron	d) Ureter
8)	Food and Adulteration Act was enforce	ed by Governme	ent of India in the year
		-> 1050	d\ 1063
	a) 1964 b) 1954	c) 1950	d) 1963
9)	The organ affected by Jaundice is	a) kidnov	d) brain
	a) liver by lungs	c) kidney	a) brain
10)	The fibres consists of		
Maria et	a) Parenchyma	b) Sclerenchyma	
	c) Collenchyma	d) None of above	
11)	Mesoglea is present in	c) Annelida	d) Arthropoda
	a) Porifera b) Coelenterata	C) Affiliellua	a) Artinopeda
12)	Transpiration takes place through a) fruit by seed	c) flower	d) stomata
1344	a) Iruit		
	Part-II		
A A A	any seven. Q.No.22 is compulsory		7×2=14
Answer	any seven. Q.No.22 is compared		
13)	Define measurement.		
14)	State Fleming's Left Hand Rule.		
15)	Why does a helium balloon float in ai		
16)	Define sublimation.		
17)	Why are Noble gases inert in nature?		
	Define aquaregia.		
19)	Differentiate Phototronism from Pho	tonasty.	
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TVL9S

20) Match the following:

1. Skin - Urine 3

2. Lungs - Sweat '
3. Intestine - Carbondioxide 2

4. Kidneys . - Undigested food 4

21) Distinguish between Virion and Viroid.

22) The speed of light in water is $2.25 \times 10^8 \, \text{ms}^{-1}$. If the speed of light in vacuum is $3 \times 10^8 \, \text{ms}^{-1}$, Calculate refractive index of water.

Part-III

Answer any seven. Qn.No.32 is compulsory:

7×4=28

23) Explain different types of motion.

24) List the safety features while handling electricity.

25) i) What is the speed of light in vacuum?

ii) True or False? If false, correct the statement.

- The convex mirror always produces a virtual, diminished and erect image of the object.
- b) When an object is at the centre of curvature of concave mirror the image formed will be virtual and erect.
- 26) State the Gay Lussac's law of combining volumes. Explain with an illustration.
- 27) Discuss in brief about the properties of co-ordinate covalent compounds.
- 28) List out the differences between mitosis and meiosis.
- 29) How will you differentiate the different types of transpiration?
- 30) Give an account on Phylum Arthropoda.
- 31) i) What is adulterant?
 - ii) What are the effects of consuming adulterated food?
- 32) Calculate the atomic number of an element whose mass number is 39 and number of neutrons is 20. Also find the name of the element.

Part-IV

Answer all the questions:

3×7=21

- 33) i) Write the rules that are followed in writing the symbols of units in SI system.
 - ii) Differentiate mass and weight.

(OR)

- a) Draw and ray diagrams to show how the image is formed using a concave mirror, when the position of object is: (i) at c (ii) between C and F (iii) between F and P of the mirror.
- b) Mention the Position and nature of image in each case.
- 34) Give the tests to identify Acids and Bases.

(OR)

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

35) Suggest the immunization schedule for a new born baby till 12 months of age. Why it is necessary to follow the schedule?

(OR)

Describe the alimentary canal of man.

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