Holidays Homework Class-XI (SCIENCE) Chemistry

1. The electronic configuration of H^- is

i)	1s ^o	iii) $1s^1$
ii)	$1s^2$	iv) $1s^{1} 2s^{1}$

- 2. Magnetic quantum number specifies:
 i) Size of orbitals
 ii) Shape of orbitals
 iii) Orientation of orbitals in space
 - iv) Nuclear stability
- 3. When the value of n=2, m can have
 i) 1 value
 ii) 3 values
 iii) 4 values
 iv) 7 values
- 4. Which of the following are isoelectronic with one another?

i) Na^+ and Ne	ii) K^+ and O
iii) Ne and O	iv) Na^+ and K

5. A 200 g cricket ball is thrown with a speed of 3×10³ cm/s, what will be its de-Broglie wavelength?
i) 1.1×10⁻³² cm ii) 2.2×10⁻³² cm

iii) 0.55×10^{-32} cm iv) 11.0×10^{-32} cm

6. If the speed of the electron in the Bohr's first orbit is x, then speed of the electron in the 3rd orbit would be:

1) x/9	11) X/3
iii) 3x	iv) 9x

- 7. Uncertainity in the position of an electron moving with a velocity 300 m/s, accurate upto 0.001% will be :
 i) 19.2 ×10⁻² m ii) 5.76 ×10⁻² m
 iii) 1.92 ×10⁻² miv) 3.84 ×10⁻² m
- 8. Calculate the energy in joule corresponding to light of wavelength 45 nm:
 i) 6.67 ×10¹⁵
 ii) 6.67 ×10¹¹
 iii) 4.42 ×10⁻¹⁵
 iv) 4.42 ×10⁻¹⁸
- 9. The frequency of light emitted for the transition n=4 to n=2 of He⁺ is equal to the transition in H atom corresponding to which of the following?

i) n= 3 to n= 1	ii) n= 2 to n= 1
iii) n= 3 to n= 2 iv) r	n=4 to $n=3$

- 10. The number of atoms in 0.1 mole of a triatomic gas is : i) 6.026×10^{15} ii) 1.806×10^{23} iii) 3.600×10^{23} iv) 1.800×10^{22}
- 11. The molarity of a solution obtained by mixing 750 mL of 0.5 M HCl with 250 mL of 2 M HCl will be:
 i) 0.875 M
 ii) 1.78 M
 - iii) 1.02 M iv) 2.05 M
- 12. 1.0 g of magnesium is burnt with 0.56 g O_2 in a closed vessel. Which reactant is left in excess and how much?
 - i) Mg, 0.16g ii) O₂, 0.16g
 - iii) Mg, 0.44 g iv) O₂, 0.28 g
- 13. The number of grams of H₂SO₄ required to dissolve 5 g of CaCO₃ is:
 - i) 10.24 ii) 4.9
 - iii) 5.12 iv) 2.56
- 14. Two samples of lead oxide were separately reduced to metallic lead by heating in a current of hydrogen. The weight of lead from one oxide was half the weight of lead obtained from the other oxide. The data illustrates:
 - i) Law of reciprocal proportions
 - ii) Law of constant proportions
 - iii) Law of conservation of mass
 - iv) Law of definite proportions
- 15. Two elements A (at. Wt.75) and B (at. Wt. 16) combine to yield a compound. The % by weight of A in the compound was found to be 75.08. the formula of the compound is:
 - i) A_2B ii) A_2B_3 iii) ABiv) AB_2
- 16. What is the reason for anamolous electronic configuration of chromium and copper?
- 17. How many nodes are present in 3s, 4p, 5d orbitals? Also, define the term' nodes'.
- 18. Which of the following are degenerate orbitals: $3d_{xy}$, $4d_{xy}$, $3d_z^2$, $3d_{yz}$, $4d_{yz}$, $4d_z^2$
- 19. The arrangement of orbitals on the basis of energy is based on their (n+l) value. Lower the value of (n+l), lower is the energy. For the orbitals having same values of (n+l), the orbital with lower value of n will have lower energy.
 - I. Based upon the above information, arrange the following orbitals in the increasing order of energy.
 - (a) 1s, 2s, 3s, 2p
 - (b) 4s, 3s, 3p, 4d
 - (c) 5p, 4d, 5d, 4f, 6s
 - (d) 5f, 6d, 7s, 7p

II. Based upon the above information, solve the questions given below:

- (a) Which of the following orbitals has the lowest energy?
- 4d, 4f, 5s, 5p
- (b) Which of the following orbitals has the highest energy?
- 5p, 5d, 5f, 6s, 6p
- 20. An atom having atomic mass number 13 has 7 neutrons. What is the atomic number of the atom?
- 21. Wavelengths of different radiations are given below: λ (A)= 300 nm, λ (B) = 300 μ m λ (C) = 3 nm λ (D) = 30 Å Arrange these radiations in increasing order of their energies. (HINT: E = h_{λ}^{c})
- 22. The Balmer series in the hydrogen spectrum corresponds to the transition from n= 2,3,4..... to n=1. The series lies in the visible region. Calculate the wave number of line associated with the transitions in Balmer series when electron moves to n= 4 orbit.
- 23. According to de- Broglie, matter should exhibit dual behaviour. However, a cricket ball of mass 100 g does not move like a wave when it is thrown at a speed of 100 km/h. Calculate the wavelength of the ball and explain why it does not show wave nature.
- 24. Write the difference between orbit and orbital.
- 25. MATCHING TYPE QUESTIONS

I. Match the quantum numbers with the information provided:

QUATUM NUMBERS	INFORMATION PROVIDED
Principal quantum number	Orientation of the orbital
Azimuthal quantum number	Energy and size of orbital
Magnetic quantum number	Spin of electron
Spin quantum number	Shape of the orbital

II. Match the following rules with their statements:

RULES	STATEMENT		
HUND'S RULE OF MAXIMUM MULTIPLICITY	No two more electrons in an atom can have same set		
	of four quantum numbers.		
AUFBAU PRINCIPLE	It is impossible to determine the exact position and		
	exact momentum of a subatomic particle		
	simultaneously.		
PAULI EXCLUSION PRINCIPLE	Pairing of electron in the orbitals belonging to the		
	same subshell does not take place until each orbital is		
	singly occupied.		
HEISENBERG UNCERTAINITY PRINCIPLE	In the ground state of atoms, orbitals are filled in the		
	order of their increasing energies.		

Also, give the meaning of maximum multiplicity, Aufbau and exclusion.

- 26. Calculate the energy and frequency of the radiation emitted when an electron jumps from n=3 to n=2 in a hydrogen atom.
- 27. What were the limitations of Bohr's Model of an atom?
- 28. Write electronic configuration of Mg^{2+} , Fe, Ni^{2+} . (Atomic number of Mg=12, Ni=28, Fe=26).
- 29. What is the difference between 'l' and 'L'?
- 30. Why is the energy level diagram of hydrogen different from multi electron species?

PHYSICS

- 1. The instantaneous speed is always equal to the magnitude of instantaneous velocity. Why?
- 2. Can a particle in one dimensional motion with zero speed have a non-zero velocity?
- 3. Rest and motion are relative terms. Explain.

- 4. Define instantaneous velocity and instantaneous speed. In what respects do these differ from each other?
- 5. What do you mean by relative velocity of a body w.r.t. another body? Obtain an expression for the same.
- 6. Draw the position-time graphs for two particles in one-dimensional motion when their relative velocity is:-

(i) zero (ii) non-zero.

- 7. Under what conditions is the average velocity equal to the instantaneous velocity?
- 8. Why does time occur twice in a unit of acceleration?
- 9. Is the acceleration of a car greater when the accelerator is pushed to the floor or when brakes pedal is pushed hard?
- 10. Can a body have zero velocity and finite acceleration?
- 11. Can the direction of velocity of a body change when its acceleration is constant?
- 12. Two balls of different masses are thrown vertically upwards with same initial speed. Which one will rise to the greater height?
- 13.Can there be acceleration in motion of a body when the velocity of body is zero?
- 14. Deduce s= v_0 t + 1/2 at² from velocity time graph. The body has initial velocity Vo and uniform acceleration, a.
- 15. Derive the relation v^2 v_0^2 =2as, where the letters have their usual meaning.

1. The dimensions of $\frac{\varepsilon_0 E^2}{2}$ (where ε_0 = absolute	8. Identify the pair whose dimensions are equal
permittivity of free space and E = Electric field	(AIEEE 2008)
intensity) are (I.I.T. 2000)	(A) torque and work (B) stress and energy
(A) [MLT ⁻²] (B) [MLT]	(C) force and stress (D) force and work
(C) $[ML^2T^{-1}]$ (D) $[ML^{-1}T^{-2}]$	9. The respective number of significant figures for the
2. The physical quantities not having the same	numbers 23.023, 0.003 and 2.1×10^{-3} are
dimensions are (AIEEE 2003)	(AIEEE 2010)
(A) torque and work (B) momentum and Planck's constant	(A) 5 1 2 (B) 5 1 5
(C) stress and Young's modulus	(C) = 5 = 2 (D) $5 = 5 = 5$
(D) speed and $(\mu_0 \epsilon_0)^{-1/2}$	(C) 5, 5, 2 (D) 5, 5, 5
The dimension of the second se	dimensions of the coefficient of viscosity?[AIEEE 2004]
3. The dimensions of $\frac{1}{\mu_0 \epsilon_0}$, where symbols have their	dimensions of the coefficient of viscosity, p and p (A) $(p - 1)$
usual meaning are (AIEEE 2003)	(A) $[ML^{-1}]$ (B) $[ML^{-1}]$
(A) [L T] (B) [L T ²]	(C) [ML ⁻⁺ T ⁻²] (D) [ML ⁻¹⁻]
(C) [L ² T ⁻²] (D) [LT ⁻²]	11. The dimensions of magnetic field in M, L, T and C
4. Which one of the following represents the correct	(coulomb) are given as [Aleee 2008]
(ATEFE 2004)	(A) $[MLT^{-1}C^{-1}]$ (B) $[MT^{2}C^{-2}]$
(A) $[M]^{-1}T^{-2}$ (B) $[M]^{-1}T^{-1}$	(C) $[MT^{-1}C^{-1}]$ (D) $MT^{-2}C^{-1}]$
(c) $[MIT^{-1}]$ (D) $[MI^{-2}T^{-2}]$	12. A body of mass m = 3.513 kg is moving along the
5. Out of the following pairs, which one doesn't have	x-axis with a speed of 5.00 ms ⁻¹ . The magnitude of its
(AIEEE 2005)	momentum is recorded as [AIEEE 2008]
(A) M. I and moment of force	(A) 17.6 kg ms ⁻¹ (B) 17.565 kg ms ⁻¹
(B) work and torque	(C) 17.56 kg ms ⁻¹ (D) 17.57 kg ms ⁻¹
(C) angular momentum and Planck's constant	13. In an experiment the angles are required to be
(D) impulse and momentum	measured using an instrument, 29 divisions of the
6. Which of the following units denotes the dimensions	main scale exactly coincide with the 30 divisions of
[ML ² /Q ²], where Q denotes the electric charge ?	scale is half a degree (= 0.5°), then the least count of
(AIEEE 2006)	the instrument is an energy of the [AIEEE 2009]
(A) H (B) H m $(-2)^{-2}$	(A) half minute (B) one degree
(C) Wb (D) Wb m	(C) half degree (D) one minute
7. Two full turns of the circular scale of a sciew gauge	14. A screw gauge gives the following reading when used
number of divisions on the circular scale are 50.	to measure the diameter of a wire.
Further it is found that the screw gauge has a zero	Main scale reading : 0 mm
error of 0.03 mm. While measuring a diameter of a	Circular scale reading : 52 divisions
thin wire, a student notes the main scale reading of	Given that 1 mm on main scale corresponds to 100
3 mm and the number of circular scale divisions in	divisions of the circular scale. The diameter of wire
wire is (AIEEE 2008)	from the above data is [AIEEE 2011]
(A) 3.32 mm (B) 3.37 mm	(A) 0.052 cm (B) 0.026 cm
(C) 3.67 mm (D) 3.38 mm	(C) 0.005 cm (D) 0.52 cm

BIOLOGY

1.	Whi	ch is a missing link bet	ween bi	rds and reptiles?		b) Development of dorsa	nerve	cord
	a)	Struthio	b) (Casuarias		c) Formation of gill slits		
	c)	Apteryx	d) A	Archaeopteryx		d) Development of kidney	/S	
2.	Whi	ch is the flightless bird	?		17.	The largest poisonous India	in snak	<e is<="" td=""></e>
	a)	Fowl	b)	Passer		a) Krait	b)	Ki
	c)	Kiwi	d)	None of these		c) Cobra	d)	Ру
3.	Natio	onal Bird of India is			18.	A poisonous lizard is		
	a)	Pavo cristatus	b)	Psittacula eupatoria		a) Varanus	b)	Pł
	c)	Streptopelia decaoto	d)	Hierococcyx varius		c) Heloderma	d)	O
4.	Ówl	is	,		19.	Name the fresh water spon	ge	
	a)	Diurnal bird	b)	Vespertine bird		a) Spongia	b)	Sy
	c)	Crepuscular bird	d)	Nocturnal bird		c) Euplectella	d)	Sp
5.	Whi	ch animal in Indian has	becom	e extinct?	20.	Which is a collared cell		
	a)	Rhinoceros	b)	Cheetah		a) Scleroblast	b)	Si
	c)	Wolf	d)	Giraffe		c) Chromocyte	d)	CI
6.	Man	nmals are characterize	d by		21.	Skeleton of sponge is		
	a)	Hair on the body				a) Ectodermal	b)	Er
	b)	Mammary glands				c) Exoskeleton	d)	Er
	d)	All the above		41	22.	Undigested food of Hydra is	s expel	led f
7	u) Man	mals have evolved fro	m			a) Mouth	b)	Ar
	a)	Birds	b)	Reptiles		c) General surface	d)	ц,
	c)	Amphibians	d)	None of the above	02	lolly fick in	u)	113
8.	, The	ape found in India is	,		23.	Jeny lish is		
	a)	Orange Utan	b)	Gibbon		a) Adamsia	D)	A
	с)	Chimmpanzee	d)	Gorilla		c) Scoliodon	d)	Тс
9.	Á ma	ammal which can imita	te hum	an laughter is	24.	Coral reef is formed of		
	a)	Dolphin	b)	Seal		a) Siliceous matter	b)	Liı
	C)	Walrus	d)	Whale		c) Chitin	d)	La
10.	Filar	ia, Malaria, Dengue,	sleepii	ng sickness and yellow	25.	Worms of Platyhelminthes	are	
	feve	r are due to				a) Roundworms	b)	FI
	a)	Insects	b)	Mosquitoes		c) Segmented worms	d)	U
44	C)	Bacteria	a)	Viruses	26	Taenia solium belongs to pl	, nvlum	
11.	vvnic	Ch disease is spread by	y nouse	Enconhalitia	20.	a) Aschelminthes	h)	М
	a) c)	Filariasis	d)	Gangrene		a) Platybolminthes	d)	۱۷۱ ۸
12	C) Rea	ring of silkworm is/silk	u) industry	vis related to	07		u)	- f
12.	a)	Aniculture	h)	Pisiculture	27.	Flame cells are excretory o	rgans o	ЭТ
	а) с)	Sericulture	d)	Horticulture		a) Hydra	b)	H
13	Vect	for of malaria is	u/	Tortiouturo		c) Cockroach	d)	Pl
10.	a)	Male culex	b)	Female Anopheles	28.	The unique characteristic o	f annel	id is
	c)	Female aedes	d)	Female culex		a) Coelom	b)	N
14.	Gree	en glands found in som	ie arthro	opods take part in		c) Hermaphrodite	d)	A
	a)	Excretion	b)	Respiration				CC
	c)	Digestion	d)	Both A and B	29.	Excretory organs of an eart	hworm	ı are
15.	The	most important charac	ter of c	hordate is		a) Nephridia	b)	FI
	a)	Dorsal hollow	b)	Vertebral column		c) Malphigian tubules	d)	G
	,	nervous system	,		30.	Blood pigment of annelids i	S	
	c)	Kidneys	d)	None of these		a) Haemoglobin	b)	C
16.	Noto	ochord is used in				c) Haemanin	d)	Ha

Krait a) b) King cobra Cobra d) Python C) 8. A poisonous lizard is Varanus b) Phrynosoma a) Heloderma Ophisaurus c) d) 9. Name the fresh water sponge a) Spongia Sycon b) Euplectella c) d) Spongilla 20. Which is a collared cell b) Silicoblast Scleroblast a) c) Chromocyte d) Choanocyte 21. Skeleton of sponge is Ectodermal a) b) Endodermal Exoskeleton d) Endoskeleton c) 22. Undigested food of Hydra is expelled from a) Mouth b) Anus c) General surface d) Hypostome 23. Jelly fish is Adamsia a) b) Aurelia Scoliodon C) d) Torpedo Coral reef is formed of Siliceous matter a) b) Limestone C) Chitin d) Lava 25. Worms of Platyhelminthes are Roundworms b) Flatworms a) C) Segmented worms d) Unisexual 26. Taenia solium belongs to phylum Aschelminthes b) Mollusca a) Platyhelminthes d) Annelida c) 27. Flame cells are excretory organs of Hydra Hydrilla b) a) Planaria c) Cockroach d) 28. The unique characteristic of annelid is a) Coelom b) Nephridia d) c) Hermaphrodite Alimentary canal is complete 29. Excretory organs of an earthworm are Nephridia a) b) Flame cells Malphigian tubules d) Green glands c) 80. Blood pigment of annelids is Haemoglobin b) Cyanin a)

d) Haemocyanin

c)

Attachment of muscles a)

31.	Blue green algae used in ric	e field	ls to increase fertility is
	a) Rivularia	b)	Nostoc
	c) Aulosira	d)	Anabaena
32.	The common mode of repro	ductio	n in bacteria is
	a) Fission	b)	Budding
	c) Sexual reproduction	d)	Sporulation
33.	Bacteria having a tuft of flag	jella at	one end are called
	a) Peitrichous	b)	Monotrichous
	c) Lophotrichous	d)	Amphitrichous
34.	The fixation of free nitroger by	ı by b	acteria in the soil is done
	a) Azotobacter	b)	Nitrosomonas
	c) Nitrobacter	d)	Thiobacillus
35.	Halophiles can comfortably	live in	
	a) Dead sea	b)	Dal lake
	c) Arabian sea	d)	Godavari
36.	The bacterium which reduce	es the	fertility of soil is
	a) Nitrosomonas	b)	Bacillus denitrificans
	c) Azotobacter sp.	d)	Nitrobacter
37.	Food poisoning is caused by	у	
	a) Clostridium botulinum		
	b) Salmonella typhosa		
	c) Clostridium tetani		
20	d) None of these	aluda	d in the kingdom Monora
30.	are are	iciude	a in the kingdom wohera
	a) Unicellular	b)	Without a definite
			Tiucieus
	c) Uninucleate	d)	Coenocytes
39.	c) Uninucleate The cell wall of bacteria con	d) tains	Coenocytes
39.	c) Uninucleate The cell wall of bacteria con Cellulose	d) tains b)	Coenocytes Hemicelluloses
39.	c) Uninucleate The cell wall of bacteria con Cellulose a)	d) tains b)	Coenocytes Hemicelluloses
39.	 c) Uninucleate The cell wall of bacteria con Cellulose a) c) Peptidoglycan 	d) tains b) d)	Coenocytes Hemicelluloses All the above
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39. 40.	 c) Uninucleate The cell wall of bacteria con Cellulose a) c) Peptidoglycan Rod-shaped bacteria are a) Mycobacteria 	d) tains b) d) b)	Coenocytes Hemicelluloses All the above Cocci
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	a)	Ascomycetes	b)	Deuteromycetes		
	c) Basidiomycetes		d)	Phycomycetes		
46.	Veg	etative reproduction in	i yeast ta	kes place by		
	a)	Akinetes	b)	Aplanospores		
	c)	Ascospores	d)	Budding		
47.	Fun	gal cell wall is compos	ed of			
	a)	Chitin	b)	Chitin or cellulose		
	c)	Hemicelluloses	d)	Cellulose		
48.	Lich	ens show				
	a)	Commensalism	b)	Mutualism		
	c)	Parasitism	d)	Mycorrhizal association		
49.	Con	nmon bread mould is				
	a)	Asperaillus	b)	Penicillium		
	c)	Ervsiphe	d)	Rhizopus		
50.	Hae	mocoel occurs in	•)			
	a)	Farthworm	b)	Hvdra		
	c)	Cockroach	d)	Leech		
51.	The	smuts of crop plants a	are cause	ed by		
•	a)	Puccinia	b)	Cystopus		
	c)	Ustilago	d)	Agaricus		
52.	Mus	hrooms belong to kind	dom	<u><u></u></u>		
	a)	Plantae	b)	Animalia		
	c)	Protista	d)	Fungi		
53.	Unic	cellular green alga is	,	C C		
	a)	Ulothrix	b)	Spirogyra		
	c)	Chlamydomonas	d)	All the above		
54.	. Mode of sexual reproduction in Spirogyra is					
	a)	Isogamous	b)	Anisogamous		
	c)	Heterogamous	d)	Oogamous		
55.	The	largest alga is				
	a)	Laminaria	b)	Macrocystis		
	c)	Nereocystis	d)	Sargassum		
56.	A liv	ring fossil is				
	a)	Pinus	b)	Ephedra		
	c)	Cedrus	d)	Cycas		
57.	Whi	ch of the following is a	ʻbog mo	ss'/peat moss?		
	a)	Bryum	b)	Polytrichum		
	c)	Sphagnum	d)	Taxithelium		
58.	Exa	mple of the plant whic	h bears s	eed but not fruit is		
	a)	Mango	b)	Selaginella		
	c)	Pinus	d)	Wheat		
59.	Bryc	ophytes live in habitats	that are			
	a)	Saline	b)	Dry		
	c)	Moist	d)	Exposed		
60.	Emb	oryo development is				
	a)	Absent in algae	b)	Present in fundi		
	a)	/ looont in algue	- /	r resent in rungi		

45. Agaricus is a member of