

SHRI KRISHNA ACADEMY

NEET, JEE AND BOARD EXAM COACHING CENTRE SBM SCHOOL CAMPUS, TRICHY MAIN ROAD, NAMAKKAL CELL:9965531727-9443231727

COMMON QUARTERLY EXAMINATION - SEP- 2019

SSLC - SCIENCE - ANSWER KEY

MARKS: 75

Q.NO	PART	- I	MARKS 12x1=12
1.	c) cycling		1
2.	c) zero		1
3.	c) ohm		1
4.	c) 32g		1
5.	c) $Fe_2O_3 \times H_2O$	CXY	1
6.	b) Blue vitriol		1
7.	b)mitochondrial matrix		1
8.	b) canines		1
9.	a) retina of eye		1
10.	a) 12		1
11.	b) Meta centric	/	1
12.	a) Pancreas		1
	PART - Answer any seven questions.		7x2=14
13.	Principles of Moments:Principle of moments states that When a number of like or unlikeparallel forces act on a rigid body and the body is in equilibrium, thenthe algebraic sum of the moments in the clockwise direction is equalto the algebraic sum of the moments in the anticlockwise direction.Moment in clockwise direction = $F_1 \times d_1 = F_2 \times d_2$		1
	Convex lens and Concave lens:		1
	Convex Lens	Concave Lens	
	A convex lens is thicker in the	A concave lens is thinner in	1/2
14.	middle than at edges.	the middle than at edges.	1/2
	It is a converging lens.	It is a diverging lens.	1/2
	It produces mostly real images.	It produces virtual images.	1⁄2
	It is used to treat hypermeteropia.	It is used to treat myopia.	
15.	Atomicity: The number of atoms present in the molecule is called its 'atomicity'.		2

16.	True or false:	
	 Moseley's periodic table is based on atomic mass False Correct statement: Moseley's periodic table is based on atomic number 	1
	2. An alloy is a heterogenous mixture of metals False	
	Correct statement: An alloy is a homogeneous mixture of metals	1
17.	Match the following:	
	1. Blue vitriol $-CuSO_4.5H_2O$	2
	2. Gypsum- CaSO4.2H2O3. Deliquescence- NaOH	2
	4. Hygroscopic – CaO	
18.	Structure of mitochondria:	
	DNA Ribosomes Matrix Outer Inner Membrane Membrane F, Particles Cristae Junction Intermembrane Space	diagram parts-:
19.	a) Dental formula of rabbit:	
	Dental formula is $(I_{1}^2, C_{0}^{0}, PM_{2}^{3}, M_{3}^{3})$ in rabbit which is written as $\frac{2033}{1023}$.	1
	Canines are absent.	
	b) Diastema formed in rabbit: The gap between the incisors and premolar is called diastema.	1
20.	Master gland:	
	The pituitary gland or hypophysis	1
	Reason:	
	The pituitary gland forms the major endocrine gland in most vertebrates.	1
	It regulates and controls other endocrine glands and so is called as the	-
	"Master gland".	
21.	Allosomes:	
	 Allosomes are chromosomes which are responsible for determining the 	
	sex of an individual . They are also called as sex chromosomes or	2
	hetero-chromosomes. Theses 23 rd chromosome of human being is an	
	allosome	
22.	Current (I) = 2A	1
	Potential difference (V) = 30V	
	Ohm's law = $R = \frac{V}{I}$	1
	$\therefore R = \frac{30}{2} = 15\Omega$	

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	PART – III Answer any seven questions. (Q.No. 32 is compulsory)	7x4=12
23.	Universal law of gravitation:	
	◆ This law states that every particle of matter in this universe attracts	
	every other particle with a force.	
	This force is directly proportional to the product of their masses and	2
	inversely proportional to the square of the distance between the centers	
	of these masses.The direction of the force acts along the line joining the masses.	
	 Force between the masses is always attractive and it does not depend on 	
	the medium where they are placed.	
	m_1 F_1 F_2 m_2	
	Gravitational force between	
	two masses Let, m_1 and m_2 be the masses of two bodies A and B placed r metre apart in	
	space	1
	Force $F \propto m_1 \times m_2$	
	$F \propto 1/r^2$	
	On combining the above two expressions	
	$F \propto \frac{m_1 \times m_2}{r^2}$, $F = \frac{Gm_1m_2}{r^2}$	1
	Where, G is the universal gravitational constant.	L
	Its value in SI unit is $6.674 \times 10^{-11} \text{ Nm}^2 \text{kg}^{-2}$.	
24.	a) Five properties of light.	
	1. Light is a form of energy.	1⁄2
	2. Light always travels along a straight line.	
	3. Light does not need any medium for its propagation. It can even travel	1⁄2
	through vacuum.	
	4. The speed of light in vacuum or air is, $c = 3 \times 10^8 \text{ ms}^{-1}$.	1⁄2
	5. Since, light is in the form of waves, it is characterized by a wavelength	
	(λ) and a frequency (ν), which are related by the following equation	17
	$c = v \lambda$ (c - velocity of light). b) Two advantages of telescopes:	1⁄2
	 Elaborate view of the Galaxies, Planets, stars and other heavenly bodies is 	
	possible.	1
	 Camera can be attached for taking photograph for the celestial objects. 	1
25.	Ideal gas equation:	
	(i) The ideal gas equation is an equation, which relates all the properties of	
	an ideal gas.	
	V-volume, P-pressure, T-temperature	
	(ii) An ideal gas obeys Boyle's law and Charles' law and Avogadro's law	4
	(iii) According to Boyle's law,	-
	PV = constant(1)	
	(iv) According to Charles's law, V/T = constant(2)	
	(v)According to Avogadro's law, $V/n = \text{constant}$ (3)	
	(vi)After combining equations (1), (2) and (3), you can get the following	
	equation.	



	(c) The Upper Region (Reduction Zone)- The temperature prevails at				
		400°C . In this region carbon monoxide reduces ferric oxide to form a fairly			
		pure spongy iron.			
		$Fe_2O_3 + 3CO \xrightarrow{400^{\circ}C} 2Fe + 3CO_2$			
		The molten iron is collected at the bottom of the furnace after			
		removing the slag. The iron thus formed is called pig iron. It is remelted and cast into different			
		moulds. This iron is called cast iron			
	27.	(i) A is a blue coloured crystalline salt \rightarrow Copper sulphate Penta hydrate	1		
		CuSO ₄ .5H ₂ O (blue vitriol)			
		(ii) When blue coloured copper sulphate crystals are gently heated, it loses			
		its five water molecules andbecomes colourless anhydrous copper	2		
		sulphate.			
		The equation is, Heating			
		$CuSO_{1}5H_{0}O \Rightarrow CuSO_{1}+5H_{0}O$			
		(Copper sulphate Cooling (Anhydrous copper			
		pentahydrate) sulphate)			
		(Blue colour) (Colourless)			
		A) Copper sulphate pentahydrate	1		
		B) Anyhydrous copper sulphate			
	28.	Male reproductive system of Rabbit:			
		The male reproductive system of rabbit consists of a pair of testes which	1		
		are ovoid in shape.	1		
		 Testes are enclosed by scrotal sacs in the abdominal cavity. 			
		✤ Each testis consists of numerous fine tubules called seminiferous			
		tubules.	1		
		This network of tubules lead into a coiled tubule called epididymis,			
		which lead into the sperm duct called vas deferens .			
		The vas deferens join in the urethra just below the urinary bladder. The			
		urethra runs backward and passes into the penis.	1		
		There are three accessory glands namely prostate gland, cowper's gland			
		and perineal gland. Their secretions are involved in reproduction.			
		Flight kidney			
		Lirinary bladder Vias deterens	1		
		Prostate glands Uterbina Cowper's glands			
		Perfosal glands Tests Scrool as			
	29.	Functions of blood:			
	_ /.	 Transport of respiratory gases (Oxygen and CO₂). 			
		 Transport of digested food materials to the different body cells. 	1		
		 Transport of hormones. 	1		
		Transport of nitrogenous excretory products like ammonia, urea and	-		
		uric acid.	1		
		 It is involved in protection of the body and defense against diseases. 			
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	 It acts as buffer and also helps in regulation of pH and body temperature. 	1
	 It maintains proper water balance in the body. 	
30.	 Structure and Functions of brain: A human brain is formed of three main parts: (a) forebrain (b) midbrain and (c) hindbrain. Forebrain: The forebrain is formed of cerebrum and diencephalon. The latter consists of dorsal <i>thalamus</i> and ventral <i>hypothalamus</i>. 	
	Cerebrum :	
	 It is the largest portion forming nearly two-third of the brain. The cerebrum is longitudinally divided into two halves as right and left cerebral hemispheres by a deep cleft called median cleft. Two cerebral hemispheres are interconnected by thick band of nerve fibres called corpus callosum. The cortex is extremely folded forming elevations called gyri with depressions between them termed as sulci that increase its surface area. The cerebrum is also responsible for the thinking, intelligence, 	1
	consciousness, memory, imagination, reasoning and willpower. Thalamus : Thalamus present in cerebral medulla is a major conducting centre for sensory and motor signalling. It acts as a relay centre .	
	Hypothalamus :	
	 It lies at the base of the thalamus. It controls involuntary functions like hunger, thirst, sleep, sweating, sexual desire, anger, fear, water balance, blood pressure etc. 	1
	 Midbrain : It is located between thalamus and hind brain. the dorsal portion of the midbrain. It consists of four rounded bodies called corpora quadrigemina that control visual and auditory (hearing) reflexes. 	
	Hindbrain : It is formed of three parts cerebellum, pons and medulla oblongata.	
	Cerebellum : It is second largest part of the brain formed of two large sized hemispheres and middle vermis. It coordinates voluntary movements and also maintains body balance.	1
	Pons: ' <i>Pons</i> ' a latin word meaning bridge. It is a bridge of nerve fibre that connects the lobes of cerebellum. It relay signals between the cerebellum, spinal cord, midbrain and cerebrum. It controls respiration and sleep cycle.	
	 Medulla Oblongata : Medulla oblongata is the posterior most part of the brain that connects spinal cord and various parts of brain. It has cardiac centres, respiratory centres, vasomotor centres to control heart beat, respiration and contractions of blood vessels respectively. It also regulates vomiting and salivation. 	1
31.	a) Triple fusion:	
	One sperm fuses with the egg (syngamy) and forms a diploid zygote. The	sa ^{la} 2

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	b) Structure of neuron:	2
32.	Given: a) Mass of the solute = 1.5 g Mass of the solvent = 15 g Called it is a final solute of the solute of th	2
	Solubility of the solute = $\frac{Mass \text{ of the solute}}{Mass \text{ of the solvent}} \times 100$ Solubility of the solute = $\frac{1.5}{15} \times 100$ = 10 g b) Solutions which are made of one solute and one solvent (two components) are called binary solutions.	2
	PART-IV	3x7=21
22	Answer all the questions.	
33.	a) Construction & Working of Compound microscope:	1
	 Compound microscope is also used to see the tiny objects. Compound microscope consists of two convex lenses. The lens with the 	
	shorter focal length is placed near the object, and is called as	1
	 'objective lens' or 'objective piece'. ★ The object (AB) is placed at a distance slightly greater than the focal length of objective lens (u > f₀). A real, inverted and magnified image (A'B') is formed at the other side of the objective lens. This image 	1
	behaves as the object for the eye lens.	
		1
	 behaves as the object for the eye lens. Image: Comparison of the eye lens is adjusted in such a way, that the image (A'B') falls within the principal focus of the eye piece. This eye piece 	1
	 behaves as the object for the eye lens. Image: Comparison of the eye lens is adjusted in such a way, that the image (A'B') falls within the principal focus of the eye piece. This eye piece forms a virtual, enlarged and erect image (A' B'') on the same side of the 	1
	 behaves as the object for the eye lens. Image: Comparison of the eye lens is adjusted in such a way, that the image (A'B') falls within the principal focus of the eye piece. This eye piece 	1

b) Snell's law: The ratio of the sine of the angle of incidence and sine of the angle of refraction is equal to the ratio of refractive indices of the two media. This law is also known as Snell's law. 2 dimit = di				
refraction is equal to the ratio of refractive indices of the two media. This law is also known as Snell's law.2 $\frac{sim T}{sim T} = \frac{\mu_2}{\mu_1}$ (OR)a) Power (P) = 100W Voltage (V) = 200V Power (P) = VI Current (1) = P/V I = 100/200 = 0.5.A Resistance (R) = V/I = 200/0.5 = 400\Omegab) Fundamental laws of gases: The three fundamental laws which connect the relation between pressure, volume and temperature are as follows:33(1) Boyle's Law 2) Charles's law 2) Charles's law333Atoms of the same element may have different atomic mass. (discovery of isotopes $1/Cl^3$, $rcl(27)$).A toms of the same element may have different atomic masses (discovery of isotopes $1/Cl^3$, $rcl(27)$).A toms of other same element may have different atomic masses (discovery of isotopes $1/Cl^3$, $rcl(27)$).A toms of other same iso longer indestructible (discovery of artificial transmutation).A toms of other same iso longer indestructible (discovery of artificial transmutation).A tom sing an atom can be converted into energy (E = mc ²).b) Claculate the number of moles in 27g of Al No of mules = prass / atomic massive:A point concentrated nitric acid does not attack aluminium.A condition of an oxide film on its surface.Difference between Hygrosopic and Deliquescence substancesDifference between Hygrosopic and Deliquescence su		b) Snell's law:		
Image: Second		The ratio of the sine of the angle	of incidence and sine of the angle of	
To know a super is taw. $\frac{\sin i}{\sin \tau} = \frac{\pi_1}{\pi_2}$ (OR)a) Power (P) = 100WVoltage (V) = 200VPower (P) = VICurrent (I) = P/V1 = 100/200 = 0.5AResistance (R) = V/1 = 200/0.5 = 400Ωb) Fundamental laws of gases:The three fundamental laws which connect the relation between pressure, volume and temperature are as follows:31) Boyle's Law2) Charles's law3) Avogadro's law34.34.a) Salient features of Modern atomic theory: \leftarrow An atom is no longer indivisible (after the discovery of the electron, proton, and neutron). \leftarrow Atoms of the same element may have different atomic masses (discovery of isobars $\eta_{a}m^{2m}$, $\eta_{a}ca^{2m}$). \leftarrow Atoms of the same element can be many have same atomic masses (discovery of isobars $\eta_{a}m^{2m}$, $\eta_{a}ca^{2m}$). \leftarrow Atoms of the same element can be discovery of artificial transmutation). \leftarrow Atom is no longer indestructible (discovery of artificial transmutation). \leftarrow Atom is the smallest particle that takes part in a chemical reaction. \leftarrow The mass of an atom can be convreted into energy (E = mc²).b) Calculate the number of moles in 27g of Al No. of moles = mass / atomic mass = 27/272 $=$ Imole \leftarrow (OR)a) Acid that renders aluminium passive due to the formation of an oxide film on its surface.b) Difference between Hygroscopic and Deliquescence substances: When exposed to the atmospheric air at ordinary temperature, they absorb moisture and dissolve. Hygroscopic substances do not Deli		refraction is equal to the ratio of refrac	ctive indices of the two media. This	
(OR) a) Power (P) = 100W Voltage (V) = 200V Power (P) = VI Current (I) = P/V 1 = 100/200 = 0.5A Resistance (R) = V/I = 200/0.5 = 400Ω b) Fundamental laws of gases: The three fundamental laws which connect the relation between pressure, volume and temperature are as follows: 33. (2) Charles's law (2) Charles's law (3) Along of the atmos of Modern atomic theor:: • An atom is no longer indivisible (after the discovery of the electron, proton, and neutron). • Atoms of the same element may have different atomic mass. (discovery of isotopes 1/2(13*/70!27). • Atoms of one element can be transmuted into atoms of other elements. In other words, atom is no longer indestructible (discovery of artificial transmutation). • Atoms of one element can be transmuted into atoms of other elements. In other words, atom is no longer indestructible (discovery of artificial transmutation). • Atoms of an atom can be converted into energy (E = mc ²). b) Calculate the number of moles in 27g of Al No. of moles = mass / atomic mass = 27/27 a 1 mole a) Acid that renders aluminium passive due to the formation of an oxide film on its surface. b) Difference between Hygroscopic and Deliquescence substances: When exposed to the atmosphere at if at ordinary tempreature, they absorb moisture and do not dissolve. Hy		law is also known as Snell's law.		2
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	SHRI KR	ISHNA ACADEMY, NAMAKKAL. 99655-3172	27	

	change its physical state on	its physical state on exposure to	
	exposure to air.	air.	
	Hygroscopic substances may be	Deliquescent substances are	
	amorphous solids or liquids.	crystalline solids.	
35.	a) Neurons based on its structure:		
	The neurons may be of different typ	pes based on their structure and	
	functions.		
	Structurally the neurons may be of t		_
	i) Unipolar neurons : Only one ner		1
	which acts as both axon and dend	-	4
	ii) Bipolar neurons : The cyton gives rise to two nerve processes of		1
	which one acts as an axon while a		1
	iii) Multipolar neurons : The cyton g axon	gives rise to many dendrons and an	
	LOCATION : Found in cerebral cortex of	brain	
	Types of Nerve Fibres		
		types based on the presence or	
	absence of myelin sheath.	spes based on the presence of	
	i) Myelinated nerve fibre: The axon is	s covered with myelin sheath	1
	ii) Non-myelinated nerve fibre: The axon is not covered by myelin sheath. Myelinated and non-myelinated nerve fibres form the white matter		
	and grey matter of the brain.		
	Will we have		
	i. unipolar ii. bipolar iii. 1	nultipolar	
	b) Haemoglobin:		
	The RBCs impart red colour to the blood	due to presence of respiratory	1
	pigment is called haemoglobin		-
	c) Pericardium		1
	(OR)	
	DNA is a large molecule consisting	/	
	is also called a polynucleotide . Eac		
	components.		
	A sugar molecules – Deoxyribose su	ıgar.	-
	🔷 A nitrogenous base.		3
	There are two types of nitrogenous b	ases in DNA. They are	
	(a) Purines (Adenine and Guanine)		
	(b) Pyrimidines (Cytosine and Thymi	inej	
	A phosphate group		
	Nucleoside and Nucleotide		
	Nucleoside = Nitrogen base + Sugar		
	Nucleotide = Nucleoside + Phosphate		



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