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Number	ļ	ŀ		

SSLC FIRST REVISION EXAMINATION 2019-20

Ti	me Allowed : 3.00 Hours]	CIEN	CE	IN	. N/L
		Part - I	12	, ((*13)	c. Marks : 75
NO	te : 1. Answer all the questions.			5	12x1=12
1	2. Choose the most suitable answer The SI unit of torque is	er and v	write the code	with corresponding	answer.
•	a) Al-				on (00 , 0
2.	If the energy of the incident beam and the se	C) Cottorod	dyne	d) Kgf	
(0.0,1.4)	scattering	callereu	beam are same	e, then the scattering	is called as
	a) Inelastic b) elastic	c)	raman	d) rayleigh	S 50 ■I
3.	Which of the following is correct?				
	 a) Rate of change of charge is electrical po 	wer. b)	Rate of change	e of charge is current	
	of trace of change of ellergy is current.	a	Rate of change	e of current is charge	
4.	in the independence of the care of the car	r, the va	alue of A & Z.	9 P	-
	a. 12,4 c. 12,7	b.	4, 12		18 ×
5	One male of any and popular	d.	cannot be dete	rmined with the give	n data
J.	One mole of any gas occupies ml a) 25400 b) 21400			557 FEB (2005) 18	3.00
6.	Which of the following have inert gases 8 ele	C)	22400	d) 22.4	
	a) Ne b) Ar	CROUS II	Kr	snell.	
7.	The number of components in a ternary solu	tion is	N	d) all the above	••
	a. 4 h 3	•	A	. d. 5	
8.	Photolysis is a decomposition reaction cause	d by	7	u. 5	
	a. Heat b. Electricity		light	d. mechanical ene	ATOW -
9.	Pharyngeal ganglion in leech is a part of			a. modiamosi che	., 9 }
	a) Excretory system b) Nervous system	n c)	Reproductive s	ystem d) Respirator	v system
10.	Which is the sequence of correct blood flow		15		, -,
٠	a) ventricle - atrium - vein - arteries	b)	atrium - ventric	le - veins - arteries	
11	c) atrium - ventricle - arteries - vein LH is secreted by	d)	ventricles - veir	ı - atrium - arteries	
1 1.	a) Adrenal gland b) Thyroid gland	-1	Λ		27
12.	2n – 2 is known as	c)	Anterior pituitai	y d) Hypothalamus.	
	a) Monosomy b) trisomy	c)	nullisomy	مال سمعت ملائلات	200
		ART – II		d) none of the abo	ve
	Answer any seven questions: (Q.No 22 is	comp	ulsorv)	12	7x2=14
13.	Correct the statement : (True or False)			19	1 7 7 7 1 4
•	a) Weight of a body is greater at the equato	r and le	ss at the polar r	egion ,	
4.4	b) velocity of light is dreater in denser medi-	ım than	in rarer medium		
14. 16	Deline one Roentgen.		- P		
16	What is the coefficient of real expansion? Assertion and reasoning type		27	ž.	
٠٠.	Mark the correct choice as		200	¥	× ×
	i) A and R are correct, R explains the A.	ii)	A in normant D :		
	iii) A is wrong, R is correct.	11 <i>)</i> iv\	A is correct, R is	s wrong.	NS 81 -
	a) Assertion : Atomic mass of aluminium i	s 27	A and K are cor	rect, R doesn't explai	ns A.
	Reason : An atom of aluminium is 27	times be	eavier than 1/12tl	n of the mass of the C	12 otom
	b) Assertion: The nature of bond in HF m	rolecule	is ionic	TO the mass of the C	- 12 atom
	Reason: The electronegativity differen	nce bet	ween H and F is	s 1.9	
17.	Differenciate soaps and detergents.		yyssinin ee Newscool is settlevile serveren assessand has seen seen se		Ti .
	Write the uses of ethanoic acid.		2		
۱¥.	Match the following:	-		0	
	Column - A Column - B		•	·	
	Amphivasal Pleura	_		<u>.</u>	e e
	Lungs Pressure gradient	4 .			v
	AB blood group Dracaena Osmosis Absence of antibody				
	Osmosis Absence of antibody		* .	V	110 / 5 - 1 / 1

V/10/Sci/1

- 20. Define stimulus.
- 21. a) Which harmone is secreted during emergency situation of man?
 - b) Which harmone induces parthenocarpy in tomatoes?
- 22. 3.5 litres of ethanol is present in 15 litres of aqueous solution of ethanol. Calculate volume percentage of ethanol solution.

PART - III

Answer any seven questions: (Q.No 32 is compulsory)

7x4=28

- State the Principle of moments.
 - State Rayleigh's law of scattering.
- 24. i) Distuinguish ideal gas and real gas.
 - What happens to the resistivity, as the conductor is made thicker? · ii)
- 25. i) Why does sound travel faster on a rainy day than on a dry day?
 - Give the function of control rods in a nuclear reactor
- 26. Give the salient features of " modern atomic theory"
- What is rust? Give the equation for formation of rust. 27. i)
 - What is aqueous and non-aqueous solution? Give an example ii)
- 28. i) Differentiate reversible and irreversible reactions.
 - How is ethanoic acid prepared from ethanol? Give the chemical equation. ii)
- Why should the light dependent reaction occur before the light independent reaction? 29. i)
 - Differentiate: Aerobic and Anaerobic respiration ii)
- Mature RBC in mammals do not have cell organelles give the reason 30. i)
 - What are chemical messengers? ii)
- 31. i) Identify the diagram and label the given parts:

(Head , mitochondria , nucleus ,acrosome)

- ii) What are Allosomes?
- 32. In the circuit diagram given below, three resistors R, R, and R₃ of 5Ω , 10Ω and 20Ω respectively are connected as shown.Calculate
 - A) Current through each resistor
 - B) Total current in the circuit

Answer all the questions

C) Total resistance in the circuit



PART-IV

3X7=21

- Explain the construction and working of a Compound Microscope. 33. (a) i)
 - State newton second law of motion ii)

5 ohm

10 ohm

20 ohm

10 V

- What is a nuclear reactor? Explain its essential parts with their functions. (b) i)
 - State the three uses of ultrasonic vibrations
- Derive the relationship between Relative molecular mass and Vapour density. 34. (a) i)
 - Define Electron affinity? ii)

(OR)

(OR)

- Define Volume percentage (b) i)
 - ii) Explain how ethanol is prepared from sugarcane
- List out the parasitic adaptations in leech. 35. (a) i)
 - ii) Why is the Sinoatrial node called the pacemaker of heart?
 - iii) Define genetic engineering

(OR)

- (b) i) Write a short note on Mësophyll.
 - ii) How does Binary fission differ from Multiple fission?
 - iii) What will you do to prevent leaf fall and fruit drop in plants?

V / 10 / Sci /2