ST. THOMAS' COLLEGE (AUTONOMOUS), THRISSUR DEPARTMENT OF CHEMISTRY Name: Bridge Course Evaluation 2019-2020 No of Questions: 30 Marks: 60 1. Find the next term of the series 1,5,11,19, ... (a)32 (b)28 (c)29 (d)33 2. $234 \times 0 \times 11 \times 22 =$ (a)555 (b)0 (c)310 (d)None of these. Find the odd one out. (a) Rabbit (b) Cat (c) Elephant (d) Deer. 4. A fruit basket contains more apples than lemons. There are more lemons in the basket than there are oranges. The basket contains more apples than oranges. If the first two statements are true, the third statement is (a)True (b) False (c) Need not be true (d) None of these 5. Choose an answer based on given information: "When they heard news of the hurricane, Maya and Julian decided to change their vacation plans. Instead of traveling to the island beach resort, they booked a room at a fancy new spa in the mountains. Their plans were a bit more expensive, but they'd heard wonderful things about the spa and they were relieved to find availability on such short notice". (a) Maya and Julian take beach vacations every year (b) The spa is overpriced. (c) It is usually necessary to book at least six months in advance at the spa. (d) Maya and Julian decided to change their vacation plans because of the hurricane. 6. Which word does NOT belong with the others? (a)Tyre (b)Steering wheel (c) Engine (d) Car 7. Fill the blank in the end of the series. FAG, GAF, HAI, IAH, (a) JAK (b) HAL (c) MAN (d) PAQ 8.is the act of expressing ideas, feelings, and transferring data to others. (a) music (b) communication (c) pronunciation (d) transformation 9. Greetings, chats and casual conversations are generally considered communication. (a) informal (b) formal (c) official (d) structural 10. The branch of linguistics that comprises the study of the sounds of human speech is...... (a) kinetics (b) appendix (c) cybernetics (d) phonetics 11.is the way human body communicates through its physical movements and changes in demeanour. (a) proxemics (b) sign language (c) body language (d) arbitrariness

12. The particular feature of human language to refer to past and future time is called

 $d \log^3 d^2$

(b) reflexivity (c) creativity

c) sp3d

13. What is the type of hybridization of carbon in methane molecule?

(a) displacement

a) sp²

(d) duality

14. What is the oxida	tion state of phosph	norous in H ₃ PO ₄ ?	SUID WORK		
a) 1	b) 3	c) 5	d) 7		
15. Which is the bond	present in HCI?				
a) Ionic	b) Covalent	c) Coo	ordinate	d) None of these	
16. What is the shape					
a) Square planar	b) tetrahedra	c) Octa	ahedral	d) Square pyramidal	
17. What is the numb	er of atoms in a sim	ple cubic unit cell	?		
a) 1	b) 2	c) 3	d) 4		
18. How many moles	are present in 36g or	f H₂O? /			
a) 0.5	b) 1	c) 1.5	d) 2	TOTAL DISTRICT CONTRACT AND	
19. The difference bet	ween 12C and 14C is i	n the number of			
a) Protons	b) Neutrons		d) Pi	roton and Neutron	
20. Which quantum no	ımber distinguishes	the electrons in a	n orbital		
a) n	b) I	c) m	d) s		
21. The maximum num	her of alastrons the				
21. The maximum num a) 2	b) 5	c) 10		orbital is	
22. Ammonia is consider a) electron pair do	ered to be a Lewis ba	ase because it is	d)7		
c) proton donor			ma multiple		
23. Unit of strain is		d) None of these	2		
a) Meter	b) second	c) ₁	pascal	d) none of the above	
24. Dimensional formul	a of force is				
a) LT ⁻¹ b)		c) MLT-2	d) ML	-1T-2	
25. Thermodynamic equa) PV = constant	uation for adiabatic p b) PV = nRT				
26. If resistance is 2 Ω ar		c) PVV = c	onstant	d) P ^v V = constant	
a) 8 V		c) 12 V	d) 25 \	,	
$27. \frac{d}{dx} (\sin x^2) =$			4,23	e dela della	
a) Sin 2x	b) cos x²	c) – cos x²	2	41.2	
$28. \int_{-2}^{2} x^9 dx =$		mit Audromenia		d) 2x cos x ²	
a) 0	b) 23	c) 1	~	d) 26	
29. Which one of the follo	owing elements is us	sed as a catalyst in	n Haber proce	u/ 20	
	c) ivig	d)	Fe		
0. What is the standard	EMF of the cell with	standard reduction	On potentials	of anode equal to 0.5 V and cath	
equal to 2.7 V? b) 3.2 V		FRANK.	Potentials	or allode equal to 0.5 V and cath	100
	b) 2.2 V c) 1.35 V	d)	None of Thes	e	

ST. THOMAS' COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF CHEMISTRY

SYLLABUS FOR BRIDGE COURSE (2019-2020)

Reasoning & Logical Ability

Verbal reasoning, letter and symbol series, verbal classification, logical reasoning etc.

Communication Skills & Language Aptitude

Module I: Communication – introduction – in animals, including human beings. Human Communication: purpose (ideas, feelings, data...) Communication: oraf, written and visuaf.

Module II: Oral: way of speech - formal / informal - formal: formal settings (official)- informal: between/among peers.

Written: all forms of writing letters: business, official, minutes, applications, notifications, certificates etc.

Visual: pictures, graphs, charts, signs, hoardings, posters, maps, photographs etc.

Audio-visual: sound and visuals.

Module III: Non-verbal Communication: 1) Body language (emotions, feelings, eye contact, gestures, posture etc.) (2) Paralanguage: pitch, intonation, stress etc.

Core Course

Module I: Inorganic Chemistry-Periodic table, chemical bonding, shape and geometry of covalent Compounds

Module II: Organic Chemistry-Introduction to organic compounds and their application; stereochemistry

Module III: Physical Chemistry- Structure of atom, Schrodinger equation and introduction to quantum mechanics

Module IV: Introduction to laboratory techniques

Complementary Course

Module I: Basic ideas of Elasticity, current and electricity, thermodynamics, units and measurement Module II: Basic Mathematics: Limit, Continuity, Differentiation and Integration.

B. Sc. Chemistry 1st Year

Bridge course Result Analysis

Advanced learners : 28%

Average Learners : 52%

Slow Learners : 4%

Not valued : 16%

S. No.	Name	Marks	SA SA
1	SONA C BABU	54	Advanced learner
2	BILLJOHNS C J	52	Advanced learner
3	CENNA ROSE KARISMA		Advanced learner
4	GOKUL G S	52	Advanced learner
5	TINA JOSE	52	Advanced learner
6	PRIYA BABU	52	Advanced learner
7	ANU JOSEPH	52	Advanced learner
8	VARSHA C B	50	Advanced learner
9	ABISHEK.P.T	50	Advanced learner
10	AISWARYA AJITH	50	Advanced learner
11	BRIGHTSON ANTO	48	Advanced learner
12	LAKSHMIPRIYA O S	48	Advanced learner
13	HARSH SIVASANKARAN K S	48	Advanced learner
14	SMINTO.P.JOHNSON	48	Advanced learner
15	ALAN BABU	46	Average Learner
16	PRATHEESH K L	46	Average Learner
17	JEESMON PJ	46	Average Learner
18	DIYANJALY M S	46	Average Learner
19	JERIN GEORGE	46	Average Learner
20	ABHISHEK ANTONY JAMES	46	Average Learner
21	ROHINI S	46	Average Learner
22	SNEHA B	46	Average Learner
23	KAVYA KANNAN	46	Average Learner
24	JILNA JUSTIN V	44	Average Learner
25	DEVIKA P K	44	Average Learner
26	MIZHI K A	44	Average Learner
27	AMISHA ROSE SHAJU	44	Average Learner
28	SADHIKA E M	44	Average Learner
29	NANDANA K K	44	Average Learner
30	SHALVIN SHAJAN	44	Average Learner
31	AUGUSTINE JOYSON	42	Average Learner
32	KRISHNA PRASAD A B	42	Average Learner
33	ANAGHA V		Average Learner
34	SONA A V	42	Average Learner
35	SNEHA K S	40	Average Learner

36	AARDRA SUNDAR	40	Average Learner
37	DEVAPRIYA RAJAN	40	Average Learner
38	ATHIRA K J	38	Average Learner
39	AKASH V V	36	Average Learner
40	AGNA NIXON	36	Average Learner
41	DIGITTA UNNI	32	Slow Learner
42	GRACE RAPHEAL	32	Slow Learner
43	ANGEL THARA ANTO	AB	
44	MERIN SHAJU K	AB	
45	SANDRA S MARIYA	AB	Marks
46	NANDA VARMA	AB	St. About
47	FREDIN PAULSON	AB	S2 Automorphism
48	PAULWIN JACOB	AB	SZ Advanca
49	JESWIN JIMMY THATTIL	AB	S2 Advance
50	PRANAV H	AB	tobevis 52

ALAN BABU . 46 Average Learner
PRATHEESH K L 46 Average Learner
DEESMON P. 46 Average Learner
DIYAHAALY M S 46 Average Learner

ABHISHEK ANTONY JAMES 45 AVERAGE Learner
ROHINES 45 AVERAGE Learner

KAVYA KAWHAN AS Average Lenner
JULNA JUSTIN V AS Average Lenner

AMERICA ROSE SHARO SA CHORUS STORE

SHALVIN SHALVIN SHALVIN AV Avenue I comer
AUGUSTINE JOYSON AV AVENUE I comer