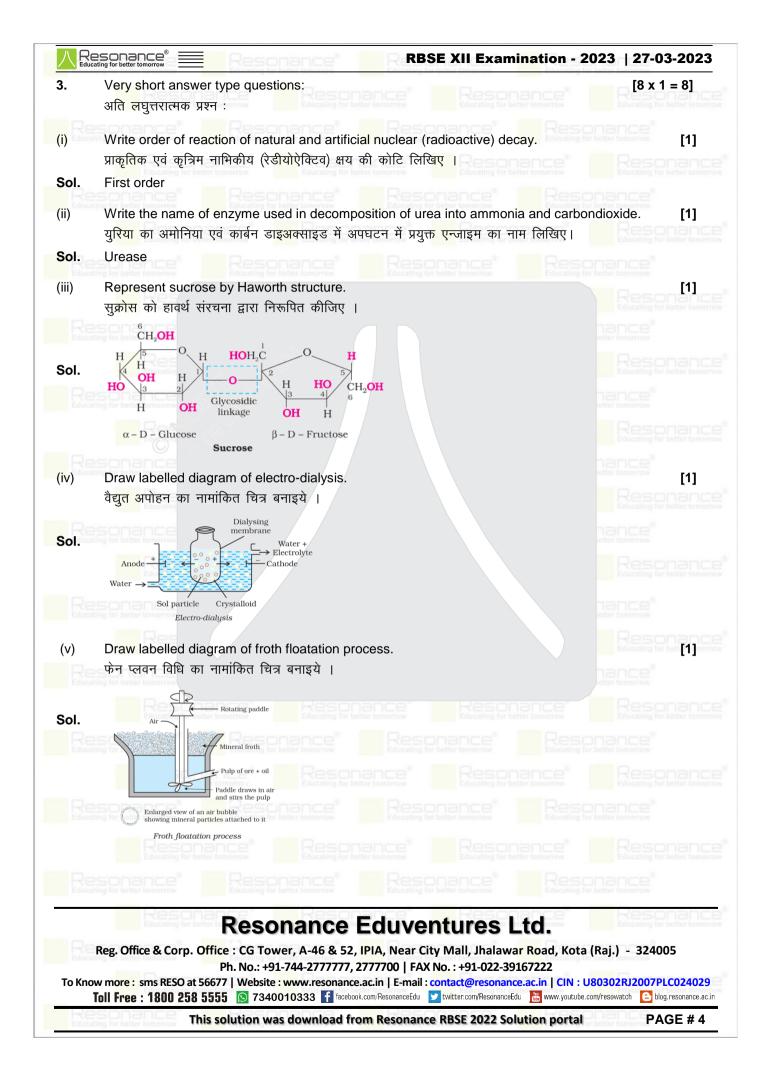
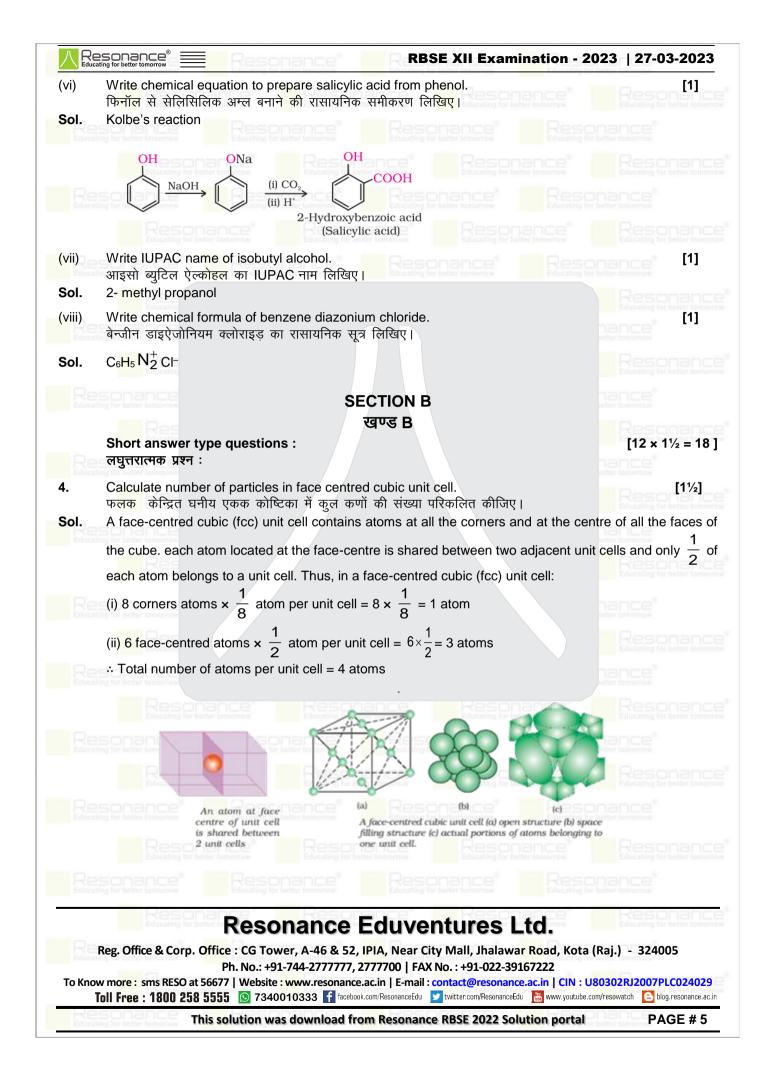
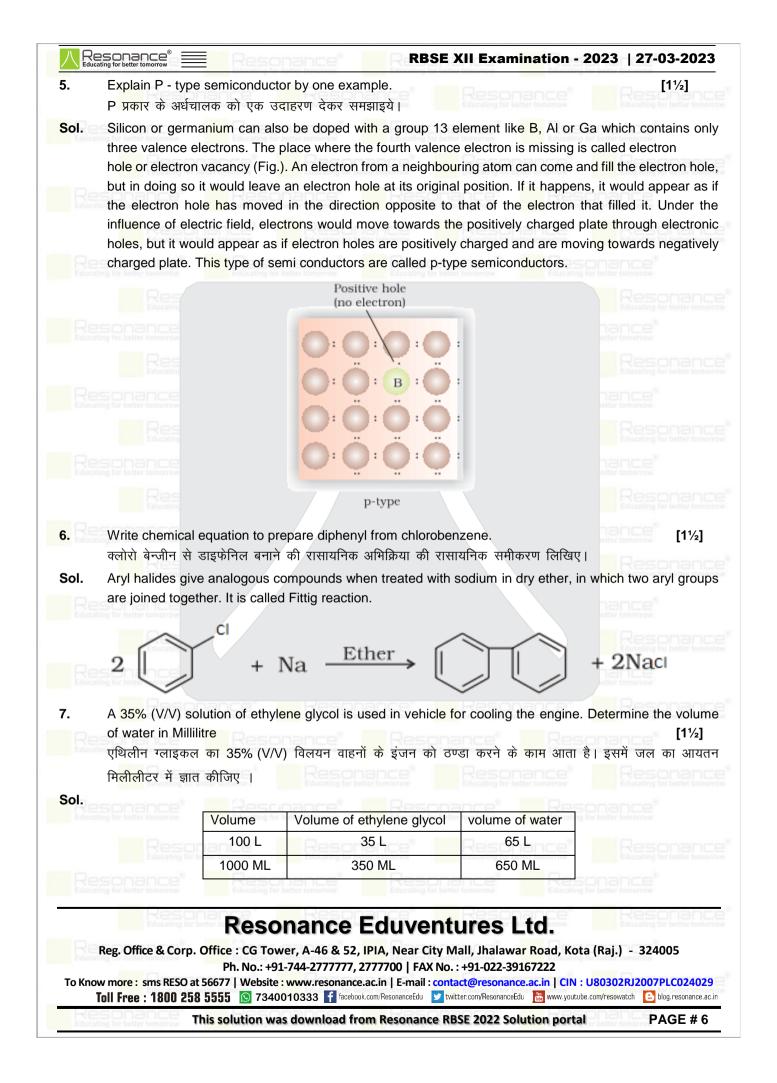


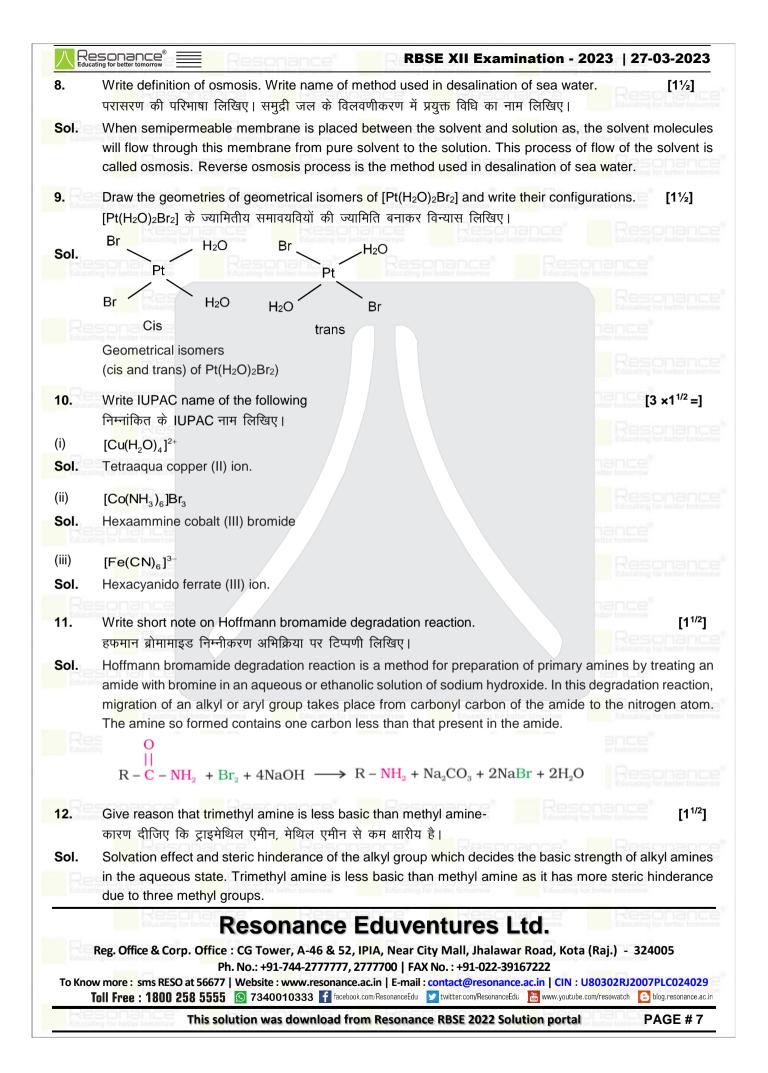
Luu		ee		ination - 2023   27-0				
			enon A खण्ड A					
		Resonance"	Resonance"					
	Multiple Choice Qu	lestions:						
		f following multiple choice			[9×1=9]			
	निम्नांकित प्रश्नों में दि	ये गये सही विकल्प का चयन	कर उत्तर पुस्तिका में लिखिए	Resonance <sup>®</sup>				
i)	When concentration of $Zn^{2+}$ and $Cu^{2+}$ ions is unity (1 mol dm <sup>-3</sup> ), then electrical potential of Daniel cell w be –							
	डेन्यल सेल में Zn <sup>2+</sup> a	and Cu <sup>2+</sup> आयनों की सान्द्रत	<mark>ा ए</mark> क इकाई (1 मोल डेसी म	भ <mark>ीटर<sup>-</sup>3</mark> ) हो तो विद्युतीय विभ	ाव का मा			
	होगा – Res							
Sol.	(A) 0.00 V (B) 1.10 V	(E) 1.10 V	(C) 1.35 V	(D) 2.00 V				
(ii)	Expression $k = \frac{2}{2}$	$\frac{303}{t}\log\frac{[R]_{\circ}}{[R]}$ is integrated	rate equation of order of	reaction-	[1]			
	(A) Zero order	(B) First order	(C) Second order	(D) Third order				
		g <mark>[R]₀</mark> कोटि की अभिक्रिया का [R]						
	(अ) शून्य कोटि	(ब) प्रथम कोटि	(स) द्वितीय कोटि	(द) तृतीय कोटि				
Sol.	(B) First order							
(iii)	(A) Initial rate		ate (C) Average rate		[1]			
		ार वेग व्यक्त करने के लिए						
	(अ) प्रारंभिक वेग	(ब) तात्क्षणिक वेग	(स) औसत वेग	(द) मानक वेग				
Sol.	(B) Instantaneous	rate						
(iv)	C <mark>olloi</mark> dal antimony	is used in curing of -			[1]			
	(A) Kalaazar		ers (C) Skin disease	(D) Sexual disease				
	कोलाइड़ी एन्टीमनी क	ा उपयोग किस रोग के इलाज						
	(अ <mark>) क</mark> ालाजार	(ब) प <mark>ेट की</mark> गड़बड़ी	(स) त्व <mark>चा स</mark> ंबंधी रोग	(द) लैंगिक रोग				
Sol.	(A) Kalaazar							
(v)	Calamine is ore of क <mark>ैलामा</mark> इन अयस्क है				[1]			
	(A) AI	(B) Fe	(C) Cu	(D) Zn				
	(A) AI का	(B) Fe का	(C) Cu का	(D) Zn का				
Sol.	(D <mark>) Zn</mark>							
		Resonance E	Eduve <mark>ntu</mark> res l	Ltd.	onanc ar better tomo			
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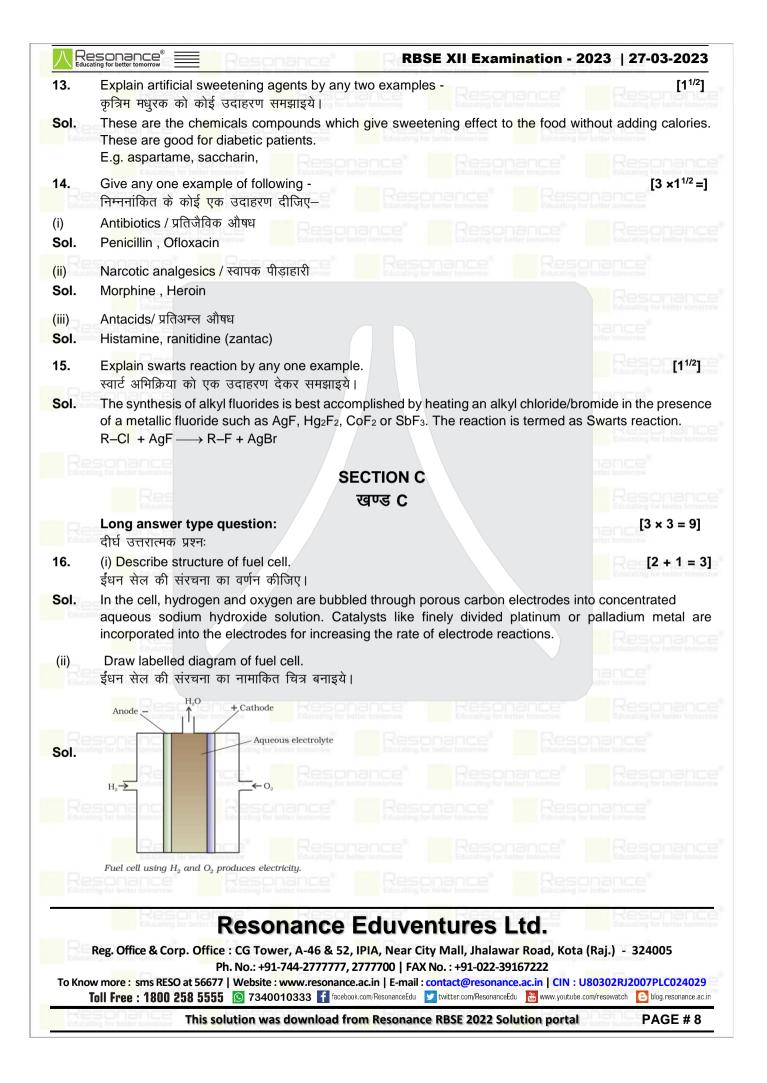
		RBSE XII Exami	nation - 2023   27-03	3-2023			
(vi)	Didentate Ligand is – द्विदंतुर लिगण्ड है.			[1] nanu			
	(A) C <sub>2</sub> O <sub>4</sub> <sup>2-</sup> (B) SCN-	(C) NH <sub>3</sub>	(D) C⊢				
Sol.	(A) c <sub>2</sub> o <sub>4</sub> <sup>2-</sup> change Resona						
<mark>(v</mark> ii)	The name of CF2 <mark>Cl</mark> 2 in freon method is- CF2Cl2का फ्रिऑन पद्धति में नाम <mark>है –</mark>			[1]			
	(A <mark>) Fr</mark> eon फ्रिऑन 112  (B) F <mark>reo</mark> n फ्रिऑन 12	(C) Fr <mark>eon</mark> फ्रिऑन 122	(D) Freo <mark>n फ्रि</mark> ऑन 11				
Sol.	(C) Freon फ्रिऑन <mark> 122</mark>						
(viii) Re	In reaction of manufacturation of phenol from (A) Tribromophenol (B) Benzoquinone क्यूमीन से फिनॉल प्राप्त करने की अभिक्रिया में उपोत	(C) Picric acid	- (D) Acetone	[1]			
Sol.	(अ <mark>) ट्रा</mark> इब्रोमोफिनॉल (ब) बेन्जोक्विनोन (D) Acetone	(स) पिक्रिक अम्ल	(द) ऐसीटोन				
(ix)	The nitrogeneous base not present in DNA - (A <mark>) Ad</mark> enine (B) Cytosine नाइट्रोजनी क्षारक DNA में नहीं पाया जाता –	(C) Guanine	(D) Uracil	[1]			
Sol.	(अ) ऐडेनीन (ब) साइटोसिन (D <mark>) U</mark> racil	(स) ग्वानीन	(द) यूरेसिल				
2	Fill in the blanks - रिक्त स्थानों की पूर्ति कीजिए – When the added substance reduces the rate जब मिलाया गया पदार्थ अभिक्रिया की दर को कम व		in place of catalys	× 1 = 4			
Sol.	Inhibitor						
(ii) Re	The accumulation of molecular species at the  अणुक स्पीशीज का किसी ठोस या द्रव की स्थूल की		bulk of a solid or liquid is कहलाता है।	termec			
Sol.	Adsorption		or temorrow				
(iii)	In Williamson synthesis the reacts with sodium alkoxide and give dialkyl ether. [1] वि <mark>लियम</mark> सन संश्लेषण में की सोडियम ऐल्कोक्साइड क <mark>े सा</mark> थ अभिक्रिया से डाइ ऐल्कि <mark>ल ई</mark> थर बनता है। .						
Sol.	Alkylhalide						
(iv)	The aqueous solution of is called fehling solution A. का जलीय विलयन फे <mark>लिंग</mark> विलयन A कहलाता है।						
Sol.	copper sulphate						
To Kno	Reg. Office & Corp. Office : CG Tower, A-46 & 52, IF	77700   FAX No. : +91-022-391 c.in   E-mail : contact@resonance	Road, Kota (Raj.) - 32400 67222 .ac.in   CIN : U80302RJ2007PL				



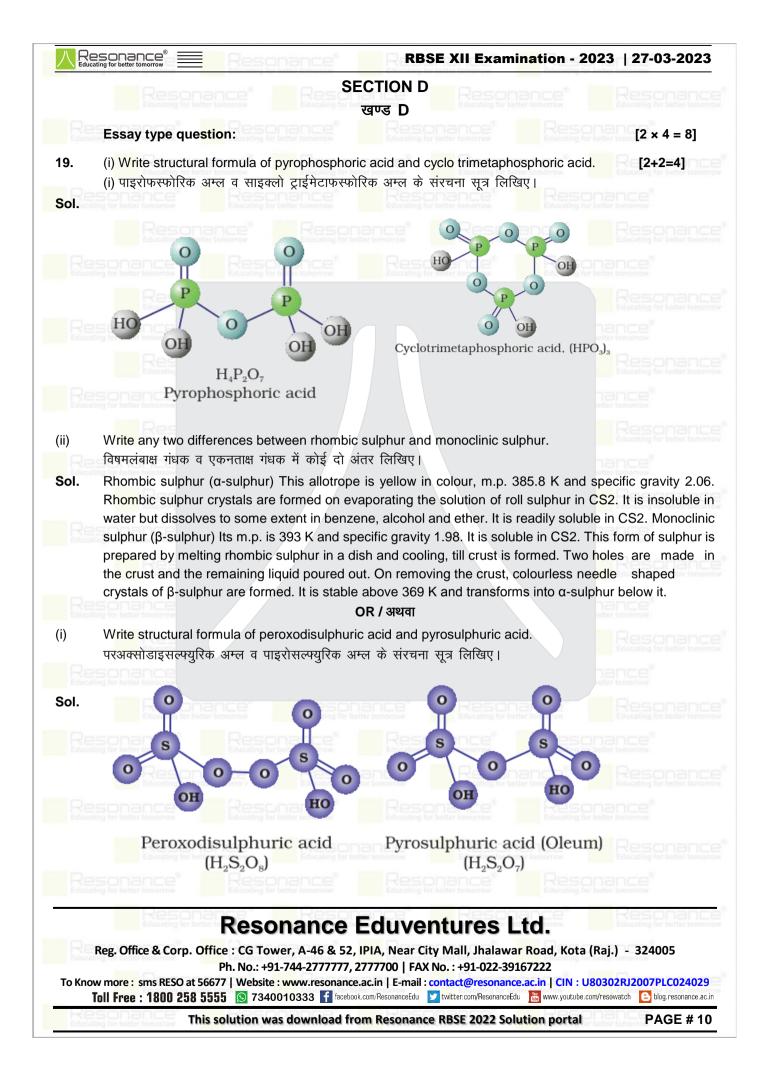


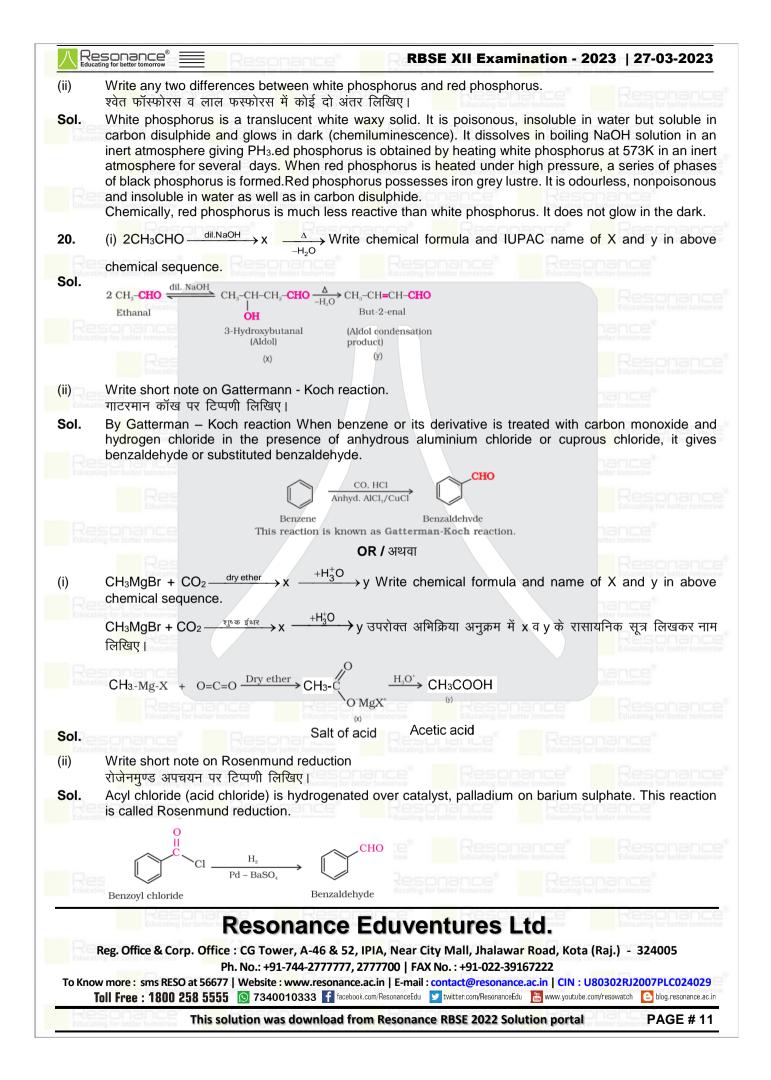






	(i) Calculate the 'Spin only' magnetic moment of Cu <sup>2+</sup> ion.	[1+1+1=3]
	(i) Cu <sup>2+</sup> आयन के लिए 'प्रचरण मात्र चुम्बकीय आघुर्ण' की गणना कीजिए।	
Sol.	$Cu^{2+} = 3d^9$ , n=1 $\mu = \sqrt{n(n+2)}$	
	$\mu = \sqrt{1(1+2)} = 1.73BM$	
(ii)	Give reason that Zn, Cd, Hg, and Cn are not transition elements. कारण दीजिए Zn, Cd, Hg, व Cn संक्रमण तत्व नहीं है।	
Sol.	Zinc, cadmium and mercury of group 12 have full d <sup>10</sup> configuration in their ground common oxidation states and hence, are not regarded as transition metals.	l s <mark>tate</mark> as well as inthei
(iii)	Write names of components of brass. मि <mark>श्र ध</mark> ातु पीतल के अवयवों के नाम लिखिए।	
Sol.	Cu & Zn	
18.	W <mark>rite</mark> differences - अन्तर लिखिए–	[1+1+1=3]
(i)	Low density polythene and High density polythene. अल्प घनत्व पॉलिथिन व उच्च घनत्व पॉलिथिन	
	Low density polythene: It is obtained by the polymerisation of ethene under high p atmospheres at a temperature of 350 K to 570 K in the presence of traces of initiator (catalyst). The low density polythene (LDP) is obtained through the free atom abstraction. It has highly branched structure. These polymers have straig some branches. It is flexible used in insulation of electricity carrying wires and manufacture of sq fiexible pipes. High density polythene: It is formed when addition polymerisation of ethene take polymeris the presence of a activity such as triatbulchuminium and titanium tetra	dioxygen or a peroxide radical addition and H ght chain structure with ueeze bottles, toys and
	solvent in the presence of a catalyst such as triethylaluminium and titanium tetra catalyst) at a temperature of 333 K to 343 K and under a pressure of 6-7 atm polythene (HDP) thus produced, consists of linear molecules as shown below and to close packing. Such polymers are also called linear polymers. High density po chemically inert and more tough and hard. It is used for manufacturing buckets, o	achloride (Ziegler-Natta ospheres. High density I has a high density due lymers are also
	catalyst) at a temperature of 333 K to 343 K and under a pressure of 6-7 atm polythene (HDP) thus produced, consists of linear molecules as shown below and to close packing. Such polymers are also called linear polymers. High density po	achloride (Ziegler-Natta ospheres. High density I has a high density due lymers are also
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(ii) Sol.	catalyst) at a temperature of 333 K to 343 K and under a pressure of 6-7 atm polythene (HDP) thus produced, consists of linear molecules as shown below and to close packing. Such polymers are also called linear polymers. High density po chemically inert and more tough and hard. It is used for manufacturing buckets, o etc. Homopolymers and copolymers.	achloride (Ziegler-Natta ospheres. High density has a high density due lymers are also dustbins, bottles, pipes
	catalyst) at a temperature of 333 K to 343 K and under a pressure of 6-7 atm polythene (HDP) thus produced, consists of linear molecules as shown below and to close packing. Such polymers are also called linear polymers. High density po chemically inert and more tough and hard. It is used for manufacturing buckets, detc. Homopolymers and copolymers. समबाह व सहबहुलक Addition polymers formed by the polymerisation of a single monomeric s homopolymers, e.g. polythene Addition polymers formed by the polymerisation of a different monomeric s copolymers, e.g., Buna-S, Buna –N, etc.	achloride (Ziegler-Natta ospheres. High density has a high density due lymers are also dustbins, bottles, pipes
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Sol. (iii)	catalyst) at a temperature of 333 K to 343 K and under a pressure of 6-7 atm polythene (HDP) thus produced, consists of linear molecules as shown below and to close packing. Such polymers are also called linear polymers. High density po chemically inert and more tough and hard. It is used for manufacturing buckets, o etc. Homopolymers and copolymers. समबाहु व सहबहुलक Addition polymers formed by the polymerisation of a single monomeric s homopolymers, e.g. polythene Addition polymers formed by the polymerisation of a different monomeric s copolymers, e.g, Buna-S, Buna –N, etc. Natural polymers and synthetic polymers. प्राकृतिक बहुलक व संश्लेषित बहुलक । Natural polymers are found in plants and animals. Examples are proteins, cellulo and rubber. Plastic (polythene), synthetic fibres (nylon 6,6) and synthetic rubbers (	achloride (Ziegler-Natta ospheres. High density I has a high density due lymers are also dustbins, bottles, pipes pecies are known as species are known as
Sol. (iii) Sol.	catalyst) at a temperature of 333 K to 343 K and under a pressure of 6-7 atm polythene (HDP) thus produced, consists of linear molecules as shown below and to close packing. Such polymers are also called linear polymers. High density po- chemically inert and more tough and hard. It is used for manufacturing buckets, detc. Homopolymers and copolymers. समबाहु व सहबहुलक Addition polymers formed by the polymerisation of a single monomeric s homopolymers, e.g. polythene Addition polymers formed by the polymerisation of a different monomeric s copolymers, e.g., Buna-S, Buna –N, etc. Natural polymers and synthetic polymers. प्राकृत्तिक बहुलक व संश्लेषित बहुलक I Natural polymers are found in plants and animals. Examples are proteins, cellulo and rubber. Plastic (polythene), synthetic fibres (nylon 6,6) and synthetic rubbers ( of man-made polymers extensively used in daily life as well as in industry.	achloride (Ziegler-Natta ospheres. High density has a high density due lymers are also dustbins, bottles, pipes pecies are known as species are known as se, starch, some resins Buna - S) are examples







## CUET (UG) 2023

Common University Entrance Test

## About CUET (UG)

Common University Entrance Test (CUET) is the program that provides equal opportunity to all students from different Boards & different region.

- CUET, known as Common Universities Entrance Test (CUET), is a Computer Based All India Test for admission to various Undergraduate Programmes in 44
   Central Universities and other State Private + Deemed Universities of India.
- CUET (UG) is organized by National Testing Agency (NTA).
- Official Website: < www.samarth.cuet.ac.in > OR < www.cuet.nta.ac.in >

## Points to Remember: CUET (UG) 2023

- Candidates can choose any Language/Domain Specific Subjects/General Test or a combination as per the requirements of the course in the specific University.
- The choice of Tests/Subjects depend on the course/s chosen by the candidate and the University/ies where admission is sought.
- A Candidate can take a maximum of **10 tests**.

	S.No.	SECTION	NO. OF QUESTIONS	QUESTIONS TO ATTEMPT	DURATION
Maxie v .	1.	SECTION-I (A+B)	50	40	45 Minutes
	2.	SECTION-II	50/45	40/35	45 Minutes*
	3.	SECTION-III	60	50	45 Minutes*

Section IA – 13 Languages (As a medium and "Language")
 \*Not yet announced by NTA.
 Assamese | Bengali | English | Gujarati | Hindi | Kannada | Malayalam | Marathi | Odia | Punjabi | Tamil | Telugu | Urdu

Section IB – 20 Languages

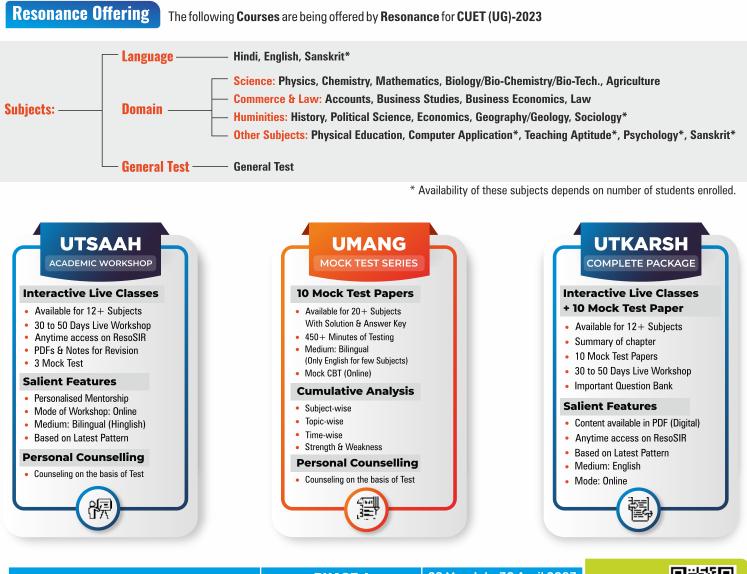
Arabic | Bodo | Chinese | Dogri | French | German | Persian | Russian | Sindhi | Tibetan | Italian | Japanese | Kashmiri | Konkani | Maithili | Manipuri | Nepali | Santhali | Spanish | Sanskrit

 Section II – 27 Domain-Specific Subjects
 There are 27 Domains specific Subjects being offered under this Section. Candidate may choose a maximum of Six (06) Domains as desired by the applicable University/Universities.

Section III – General Test

General Knowledge, Current Affairs, General Mental Ability, Numerical Ability, Quantitative Reasoning (Simple application of basic mathematical concepts arithmetic/algebra geometry/mensuration/stat taught till Grade 8).

- Candidates, from any Stream (Arts / Commerce / Science), who are appearing in Class12th Examination in 2022-23 OR who have Passed the class 12th or
  equivalent examination, irrespective of their age can appear in the CUET (UG)–2023.
- Students of Science stream can explore some unique courses of B. Tech/M. Tech/Bio-Tech courses through CUET exam at some renowned universities of India like DU/BHU etc.
- Candidates have to fulfil the age criteria if it is specified by a Particular University to which the candidate wishes to apply.



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