



IMPORTANT QUESTION BANK

Based on Latest Paper Pattern of Maharashtra State Board

Science & Technology Part - 1



IQB KE SAATH SSC EKDUM TENSION FREE STD. X (Eng. Med.)

Target Publications® Pvt. Ltd.

IQB Important Question Bank STD. X

Science and Technology Part - 1

Salient Features

- A compilation of Most Important Questions
- A great resource for expeditious and exhaustive board exam preparation
- Written as per Latest Board Paper Pattern
- Includes selective questions from 2019 2022 Board Papers
- Important inclusion: 'Smart Tip', 'Assignments' and 'Time Management' to solve the Activity Sheet
- Includes Model Activity Sheet for self evaluation
- Inclusion of **QR Code** for students to access 'Solution' for the Model Activity Sheet.

Scan the adjacent QR Code to access Board Activity Sheets and Solutions of March 2020, December 2020 and March 2022.



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PREFACE

IQB Science and Technology Part - 1: Std. X is a treasure house of the **Most Important Questions** that would help students face the Board Examination confidently. This book is created in accordance with the Latest Board paper Pattern.

IQB (Important Question Bank) covers various types of questions such as Find the odd one out, Complete the Table/Chart, Questions based on diagrams, etc. along with answers. Moreover, the questions provided are arranged in a chapter-wise format so that students can easily prepare for the examination. The book also includes four **Assignments** for practice to boost students' confidence.

Smart Tip serves several purposes such as giving students an insight into approaching a question, making them aware of commonly made mistakes, cracking a question by efficient lateral thinking and demonstrating easy methods to cross-verify the answer. **Time Management** is provided with Paper Pattern (on the adjacent page) to aid students to solve the activity sheet within the allotted time.

We have provided One Model Activity Sheet at the end of the book that enables students to assess their level of preparation for the Board examination. We have provided **QR Code** for students to access the 'Solution' given for the Model Activity Sheet.

Selected questions from the Board Papers of March 2019, July 2019, March 2020, December 2020 and March 2022 with answers have been included to give the student an idea about the kind of questions asked in the previous examinations.

Armed with an arsenal of carefully crafted questions and relevant answers, we are confident that this book will cater to the needs of students and effectively assist them to achieve their goal.

Publisher

Edition: Third

Disclaimer

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PAPER PATTERN

- There will be separate question papers for Part 1 and Part 2 of 40 marks each.
- Duration of each paper will be 2 hours.

Question	Two of Owestians	Total	Time
No.	Type of Questions	Marks	Management
Q.1 (A)	5 Questions of 1 mark each (MCQs)	05	10 mins
Q.1 (B)	5 Questions of 1 mark each	05	10 mins
Q.2 (A)	3 Questions of 2 marks each (Scientific Reasoning) (Solve any 2)	04	10 mins
Q.2 (B)	5 Questions of 2 marks each (Solve any 3)	06	15 mins
Q.3	8 Questions of 3 marks each (Solve any 5)	15	45 mins
Q.4	2 Questions of 5 marks each (Solve any 1)	05	20 mins
	To Review and Re-checking	_	10 mins
	Total	40 Marks	120 mins

CHAPTER WISE WEIGHTAGE

Sr. No.	Chapter Name	Marks	Marks with option
1.	Gravitation	03	05
2.	Periodic classification of elements	04	06
3.	Chemical reactions and equations	04	06
4.	Effects of electric current	05	07
5.	Heat	03	05
6.	Refraction of light	05	07
7.	Lenses	04	06
8.	Metallurgy	04	06
9.	Carbon compounds	05	07
10.	Space missions	03	05
	Total	40	60

INDEX

No.	Types of Questions	Page No.
1.	Multiple Choice Questions	1
•	Assignment for Q.1 (A)	14
2.	Find the Odd One Out	15
3.	Find Out the Correlation	18
4.	Match Pairs	22
5.	True or False	26
6.	Give Name/Molecular Formula	31
•	Assignment for Q.1 (B)	35
7.	Give Scientific Reasons	37
•	Assignment for Q.2 (A)	50
8.	Solve Numerical Problems	51
9.	Laws/Define/Principles	75
10.	Write a Short Note	81
11.	Chemical Reactions	90
12.	Table/Flowchart	95
13.	Give Difference Between	100
14.	Short Answers	105
15.	Complete the Paragraph	131
16.	Diagram Based Questions	133
17.	Paragraph Based Questions	151
18.	Long Answers	156
	Assignment for Q.2 (B), Q.3 and Q.4	172
•	Model Activity Sheet	178

Note: Textual exercise questions are represented by * mark. Textual solved examples are represented by + mark.

Detailed Analysis of Question Paper

Science and Technology Part - 1

Time: 2 Hours Total Marks: 40

Note:

- i. *All* questions are compulsory.
- ii. Use of a calculator is not allowed.
- iii. The numbers to the right of the questions indicate full marks.
- iv. In case of MCQs (Q. No. 1(A)) only the first attempt will be evaluated and will be given credit.
- v. For each MCQ, the correct alternative (A), (B), (C) or (D) with sub-question number is to be written as an answer. For Eg: (i) (A), (ii) (B), (iii) (C)
- vi. Scientifically correct, labelled diagrams should be drawn wherever necessary.

Q.1. (A) Choose the correct alternative.

[5]

- This question carries 5 marks. It contains 5 multiple choice type questions of 1 mark each. All questions are compulsory.
- In MCQ, students are expected to write the correct option in the answer. Example: i. (A)

Q.1. (B) Solve the following questions.

[5]

- This question carries 5 marks. It contains 5 sub-questions of 1 mark each. All sub-questions are compulsory.
- It includes various question types such as 'Find the odd one out', 'Find out the correlation', 'Make pairs', 'True or False?' and 'Give name/molecular formula/ Identify the figure'.
- In 'Find the odd one out', students are expected to identify the odd one out of 4-5 components. Students must give an appropriate explanation, only if asked in the question.
- In 'Find the correlation/Complete the analogy', students are expected to identify the correlation between two components and rewrite it. Students must give an appropriate explanation, only if asked in the question.

- In 'Match the column/Make pairs' (2 columns), students are expected to match the contents of Column I, with those in Column II appropriately, and write the answer in a tabular format.
- In 'Match the column' (3 columns), students are expected to match the contents of Column I, with those in Column II and Column III appropriately, and write the answer in a tabular format
- In 'True or false', students are expected to mention whether the sentence is true or false. Students must write the correct statement, only if asked in the question.

In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.

Q.2. (A) Give scientific reasons. (Any Two)

[4]

- This question carries 4 marks. It contains 3 sub-questions of which any 2 are to be attempted. Each sub-question carries 2 marks.
- It includes scientific reasoning questions.
- Wherever applicable, students are expected to write answers in points for better presentation.

Q.2. (B) Solve the following questions. (Any Three)

[6]

- This question carries 6 marks. It contains 5 sub-questions of which any 3 are to be attempted. Each sub-question carries 2 marks.
- It includes various question types like 'Solve numerical problems', 'laws/define/principles' 'Write a note', 'Complete the table/flowchart', 'Give difference between', 'Write properties/characteristics/advantages/effects/uses', 'Chemical reactions with equations' and 'Give examples'.
- In 'Solve numerical problems', students must write answer/s with correct unit/s.
- In 'Complete the table/flowchart', students are expected to add appropriate information in the table/flowchart and redraw it.

- In 'Give difference between' students are expected to write required number of independent differences between two components. Students may write the differences in a tabular format for better presentation.
- In 'Give examples', students are expected to give minimum 4 examples based on a particular concept or process.
- Wherever applicable, students are expected to write answers in points for better presentation.

In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.

Q.3. Solve the following questions. (Any Five)

[15]

- This question carries 15 marks. It contains 8 sub-questions of which any 5 are to be attempted. Each sub-question carries 3 marks.
- It includes various question types like 'Label the diagram and explain', 'Complete the table/flowchart', 'Solve numerical problems', 'Complete the diagram and explain', 'Answer questions based on the figure', 'Write answers with explanation', 'Write laws, theory and explain', 'Complete the paragraph', 'Explain with the help of examples' and 'Suggest remedies/measures'
- In 'Complete the table/chart', students are expected to add appropriate information in the table/chart and redraw it.
- In 'Complete the paragraph' students are expected to rewrite the completed paragraph and underline the answers.
- Wherever applicable, students are expected to write answers in points for better presentation.

In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.

- This question carries 5 marks. It contains 2 sub-questions of which any 1 is to be attempted. Each sub-question carries 5 marks.
- It includes various question types like 'Draw a figure and give explanation', 'Correct the given diagram and explain', 'Classify with detailed explanation' 'Read the given paragraph and answer questions based on it', 'Complete the table/chart and give explanation', 'Answer the questions in detail', 'Answer questions based on the figure', 'Make a concept diagram and give explanation'.
- In 'Correct the diagram and explain' students are expected to draw a new corrected, labelled diagram and write a detailed explanation.
- In 'Complete the table/chart', students are expected to add appropriate information in the table/chart and redraw it giving a detailed explanation.
- Wherever applicable, students are expected to write answers in points for better presentation.
 - In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.

Choose the correct alternative.

CHAPTER 1: GRAVITATION

1.	The orbit of a planet is an ellipse with	
	(A) centres	(B) vertices
	(C) foci	(D) tangents
2.	Value of gravitational constant G on t	he moon will be .
	(A) 1/6 value of G on the earth	
	(B) 6 times value of G on the earth	
	(C) same as that of value of G on the	ne earth
	(D) twice value of G on the earth	
3.	According to Newton's first law, mas	ss is the measure of of an
	object.	
	(A) heaviness	(B) inertia
	(C) gravity	(D) weight
4.	What will be the weight of a person	on earth, who weighs 9 N on the
	moon?	
	(A) 3 N	(B) 15 N
	(C) 45 N	(D) 54 N
5.	True free fall is possible only in	.
	(A) air	(B) vacuum
	(C) aeroplanes	(D) deep ocean
Ans:	1. (C) 2. (C) 3. (B) 4	1. (D) 5. (B)
	CHAPTER 2: PERIODIC CLASSIFIC	CATION OF ELEMENTS
1.	Lithium (Li), and potassium	
	(A) magnesium (Mg)	[Dec 2020] (B) aluminium (Al)
	(C) sodium (Na)	(D) calcium (Ca)
2.	According to Mendeleev's periodic	· 1 1
	periodic function of their	[Mar 2020]
	(A) Atomic numbers	(B) Atomic masses
	(C) Densities	(D) Boiling points
*3.	The number of electrons in the outermo	
	(A) 1	(B) 2
	(C) 3	(D) 7

*4.		ine ear				-			eans th	at their	r posi	tion in
	(A) (C)	group perio	2					(B) (D)	group d-bloc			
*5.	comp	ound i	s a so	lid ha resen	ving l t in th	nigh m e same	eltin e gro	g poir up as		ch of th	ne foll	lowing
	(A)		1 0	(B)		_		(C)	Al		(D)	Si
*6.	(A) (C)	s-blo d-blo	ck	the m	iodern	perio		able ai (B) (D)	e the no p-bloc f-blocl	k	ls fou	nd?
7.	Halog (A) (C)	gen wh fluori brom	ne	iquid	at rooi	n temp		ure is_ (B) (D)	astetin iodine	e		
8.	The c (A) (C)	orrect o F > C S > F	> S	sing o	rder of	fatomi		(B)	F > S > S > O			
9.	When a small piece of beryllium was added to water taken in a beaker, what will you observe? (A) Vigorous chemical reaction occurs with evolution of a gas. (B) Formation of precipitate is seen. (C) Colour of solution turns black. (D) No reaction occurs.											
10.	group (A)	of the Atom	mode	ern pe ius	riodic		•	(B)	e while	ic char	acter	wn the
	(C)		nce ele					(D)	Numb			
11.	water (A)		Mg <	Ca <	Sr < I	3a		(B) (D)	alkaline Be < N Be < C	⁄Ig < C	a < B	a < Sr
Ans:		(C) (C)		(B) (D)	3. 9.	(A) (D)	4. 10.	\ /		(A) (A)	6.	(B)
		CHAP	ΓER 3:	CHE	ИICAL	REAC	TION	IS ANI	D EQUA	TIONS		
1.	What solution (A) (B) (C) (D)	on? Copp Color Copp	er sul urless er sul	phide soluti phate	is form on of solution	med. zinc si on is n	ulpha ot af	ate is f	added ormed.	to cop	per s	ulphate
2						R			X: IQB ice and	Techno	ology F	Part - 1

2.	Which of the following gases turns lime water milky? (A) H_2 (B) CO_2 (C) NO_2 (D) SO_2							
3.	 Which of the following is CORRECT for double displacement reaction? (A) Ions are exchanged. (B) Ions are not produced. (C) One substance is formed from two or more substances. (D) Two or more substances are produced from one substance. 							
4.	Which among the following is double displacement reaction? (A) $AgNO_3 + NaCl \longrightarrow AgCl + NaNO_3$ (B) $Pb + CuCl_2 \longrightarrow PbCl_2 + Cu$ (C) $2Mg + O_2 \longrightarrow 2MgO$ (D) $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O$							
5.	A student takes 1 g of sodium hydroxide. He adds it to 50 mL of water taken in a plastic bottle and shakes the content well. Which of the following observation is correct? (A) Sodium does not dissolve in water. (B) A white precipitate is formed. (C) The temperature of the reaction solution increases. (D) The resulting solution is acidic.							
6.	Which gas is liberated when aluminium metal reacts with dilute hydrochloric acid? (A) H_2O_2 (B) H_2 (C) Cl_2 (D) O_2							
7.	The conversion of ferrous sulphate into ferric sulphate is reaction. (A) oxidation (B) displacement (C) electrolysis (D) reduction							
Ans:	1. (B) 2. (B) 3. (A) 4. (A) 5. (C) 6. (B) 7. (A) CHAPTER 4: EFFECTS OF ELECTRIC CURRENT							
1.	Heating effect of electric current is not observed in (A) electric oven (B) electric iron (C) electric motor (D) fuse							
2.	The live and neutral wires have potential difference of (A) 0 V (B) 100 V (C) 220 V (D) 440 V							
3.	If 220 V potential difference is applied across an electric bulb, a current of 0.5 A flows in the bulb. What must be the power of the bulb? (A) 99 W (B) 110 W (C) 150 W (D) 220 W							

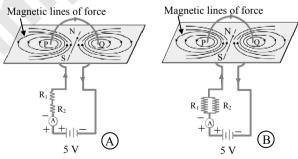
- 4. Two bulbs are connected in series in a circuit. If the filament of a bulb breaks then,
 - (A) second bulb will glow brighter
 - (B) second bulb will not glow
 - (C) there will be overloading in the circuit
 - (D) resistance of the circuit will decrease
- To detect magnetic field produced by current carrying conductor _______
 is used.
 - (A) voltmeter

(B) magnetic needle

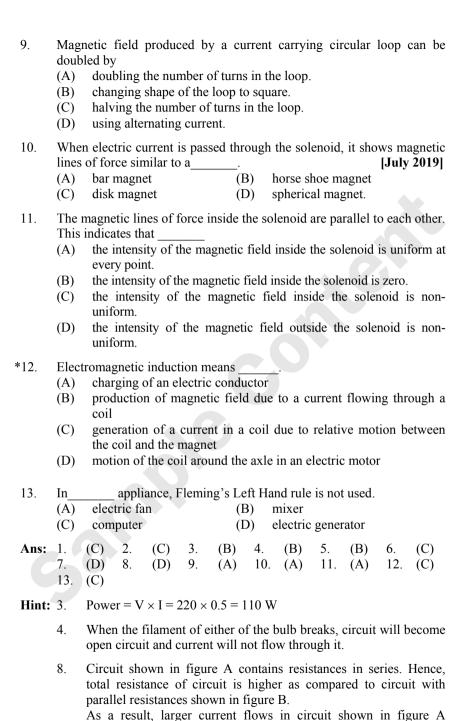
(C) electromagnet

- (D) galvanometer
- 6. If the current through wire is increased,
 - (A) resistance of the wire increases.
 - (B) resistance of the wire decreases.
 - (C) intensity of magnetic field produced around the wire increases.
 - (D) intensity of magnetic field produced around the wire decreases.
- *7. Which of the statement given below correctly describes the magnetic field near a long, straight current carrying conductor?
 - (A) The magnetic lines of force are in a plane, perpendicular to the conductor in the form of straight lines.
 - (B) The magnetic lines of force are parallel to the conductor on all the sides of the conductor.
 - (C) The magnetic lines of force are perpendicular to the conductor going radially outward.
 - (D) The magnetic lines of force are in concentric circles with the wire as the centre, in a plane perpendicular to the conductor.
- 8. Observe the following diagram and choose the correct alternative:

[Mar 2019]



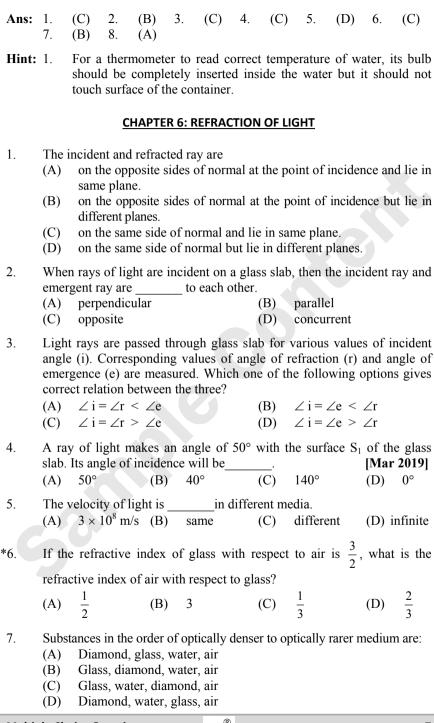
- (A) The intensity of magnetic field in A is larger than in B.
- (B) The intensity of magnetic field in B is less than in A.
- (C) The intensity of magnetic field in A and B is same.
- (D) The intensity of magnetic field in A is less than in B.



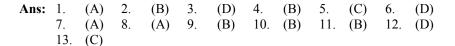
generating magnetic field of higher intensity.

CHAPTER 5: HEAT

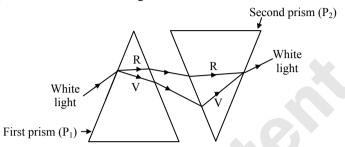
1.	Choose the proper method to measure t	he temperature of water.							
	(A) (B)	(C) (D)							
2.	During transformation of liquid phase	to solid phase, the latent heat is							
	(A) absorbed (B) given off (C) used to increase temperature (D) used to decrease temperature								
3.	Latent heat per unit mass of a substance (A) specific heat (C) specific latent heat	e is its (B) heat capacity (D) latent heat capacity							
4.	When ice of 0 °C is heated to convertemperature, thermometer dipped into some time? (A) 0 °C and 4 °C	ice shows constant reading for (B) 4 °C and 100 °C							
	(C) 0 °C and 100 °C	(D) 0 °C, 4 °C and 100 °C							
5.	Heat energy absorbed by water at 10 steam is called its (A) latent heat of melting (C) latent heat of steaming	O °C during transformation into (B) latent heat of fusion (D) latent heat of vaporization							
6.	When water in the ice trays in a	refrigerator freezes to form ice							
	(A) heat is given out and temperature decreases (B) heat is given out and temperature increases (C) heat is given out and temperature is maintained (D) its volume decreases								
7.	Water expands on reducing its tempera	ture below°C.							
	(A) 0 (B) 4	[Mar 2019] (C) 8 (D) 12							
8.	The vapour content in the air is mean called (A) Absolute humidity (C) Dew point	(B) Relative humidity (D) Humidity							
6	· · · · · · · · · · · · · · · · · · ·	Std. X: IQB Science and Technology Part - 1							
		Science and recimology raft - 1							



8.	The a	ctual position of a star is s	lightly	_ than apparent position of
	(A) (C)	lower nearer	(B) (D)	higher farther
* 9.	We c	an see the sun even when	it is little bel	ow the horizon because of
	(A) (C)	reflection of light dispersion of light	(B) (D)	refraction of light absorption of light
10.	throu		by four stude	th of a ray of light passing ents is shown. The student
	(A)		(B)	
	(C)		(D)	
11.		gh prism then angle of deviation goes o angle of deviation decreangle, deviation angle incangle of deviation goes o	n decreasing. cases but after creases. n increasing. ases but after	ce of a ray of light passing certain value of incident certain value of incident
12.	(A)	Irs in the order of maximum Blue, violet, red, green Blue, green, red, violet	m deviated to (B) (D)	
13.	with the	will you place the second respect to the first prism shapiven figure to obtain gent light?	nown in	White light V First prism (P ₁)
	(A)		(C) V	(D)
8		ğ	1	X: IQB ace and Technology Part - 1



Hint: 13. To obtain white emergent light from two prisms, the second prism should be placed parallel to the first prism but in an inverted position as shown in the figure below.



CHADTED 7. I ENICES

		CHAPTE	IN 7. LLINGLS		
1.	A(A) (C)	lens always produc biconvex planoconvex	(B) (D))	biconcave bifocal
2.	While	finding the focal lengt	h of convex	ler	ns, the image obtained is
	(A) (C)	real and erect virtual and erect	(B) (D)	/	real and inverted virtual and inverted
3.	Accor (A) (B) (C) (D)	ding to Cartesian sign co all distances in direction all distances in direction height above the princip height above the princip	of incident in of incident in of incident in oal axis is neg	ray ray gativ	are taken positive. are taken negative. ve for concave lens.
4.	a con	vex lens. He now wants to the contract to the	o focus on a ald he move	dist the	a screen with the help of cant tree and obtain a clear lens in order to get a clear
5.		tain an image of the same the object should be place at $2F_2$ at $2F_1$		·)	Between F ₂ and 2F ₁ at infinity
Multip	ole Cho	ice Questions	®		9

6.	the th (A) (B) (C)		e lens, th d anged l	nen foca	l length of			anging 	
7.	The p	power of a cor	nvex len	s of foca	al length 2	25 cm is	· [Me:	r 2022]	
	(A) (C)	4.0 D -4.0 D			(B) (D)	0.25 D -0.4 D	[IVIA	1 2022	
8.	to a stype (A) (B) (C)	a particular glastudent. He wof lens given Power: +2 Power: +1 Power: -0. Power: -2	to him. I dioptre dioptre 25 diop	to calcu His ansv ; Conve ; Conca tre ; Cor	late the power must be a lens we lens a lens	ower of lens			
Ans:	1. 7.	(B) 2. (A) 8. (B)	B) 3. C)	(A)	4. (0	C) 5. (C	C) 6.	(C)	
Hint:		Focal length		irectly w	ith radius	of curvature	e .		
	7. Power of lens = $\frac{1}{\text{focal length in metre}} = \frac{1}{0.25} = 4.0 \text{ D}$ As, focal length of convex lens is always positive, power of convex lens is also positive.								
		ile calculating		_	ART TIP it is impo	rtant to cons	sider the	value	
			CHAPT	ER 8: M	ETALLURG	<u>SY</u>			
1.	(A)	soft metal whi sodium copper	ch can t	e cut w	(B)	s aluminiun silver	n		
2.	The f (A) (C)	flame colour of red white	of a copp	er strip	is(B) (D)	bluish gre	en		
3.	Which	ch of the follow Mg	ving eler (B)	ments re K	acts vigor (C)	ously with wa	ater?	Ca	
10	(- +)	··-0	(-)		Std	I. X: IQB ence and Tec	<u> </u>		

4.	What (A) (B) (C) (D)	It rea It rea Bubl calci	acts vi acts sl oles o um.	olently owly t f hydro	y with o form ogen	n water n calci	um o e forn	xide. ned w	d with v		he sui	face of
5.	(A)	Mg	< A1 <	increas Zn < Al < N	Fe	rder of		(B)	of meta Al < Z Zn < N	zn < Fe		
6.	When an iron nail is kept dipped in freshly prepared copper sulphate solution taken in a test-tube, (A) the blue colour of the solution changed to green (B) the green colour of the solution changed to blue (C) the solution becomes colourless (D) the colour of the solution did not change											
7.	In which of the following pairs the displacement reaction does NOT occur? (A) CuSO ₄ solution and silver metal (B) AgNO ₃ solution and copper metal (C) CuSO ₄ solution and Zn metal (D) FeSO ₄ solution and Al metal											
8.	The gr (A) (C)	copp	h laye er chl er oxi	oride	ed ov	er the		ce of c (B) (D)	opper v copper basic o	r sulph	ide	nate
9.	Which coppe (A) (C)	r artic Lem	cle? on jui			.N be		for gi (B) (D)	ving g Tamar All of	ind jui		orrodec
10.		se Mag	parati netic	able m on me		d, the		eles of (B) (D)	f gangu Froth Gravit	floatati	[Mar ion	ated by 2020]
11.	(A)	Elec		ting	is the	exam		(B) (D)	 Alloyi Galva		[Mar	· 2022]
Ans:		(A) (A)		(B) (D)			4. 10.	(C) (D)	5. 11.	(C) (A)	6.	(A)
			<u>C</u>	IAPTE	R 9: C	ARBO	N CO	MPOL	<u>JNDS</u>			
1.	Which (A) (C)	Buta	ne foll none noic a		conta	ains –C		H func (B) (D)	tional g Butan Butan	ol		

11

Multiple Choice Questions

2.	(A) (C)	ether ketone	(B) (D)	ester aldehyde					
3.	Which (A) (C)	n of the following contains –OH f Butanone Butanoic acid	functio (B) (D)	nal group? Butanol Butanal					
4.	(A) (C)	is one of the combustible com Ethane Methane	(B) (D)	ts of L.P.G. [Mar 2022] Propane Ethene					
5.	Which (A) (C)	n of the following compounds wil Benzene Ethanoic acid	ll burn (B) (D)	with a sooty flame? Propanol Butane					
6.	Which (A) (C)	n of the following compounds wil Benzene Butane	(B) (D)	with clean blue flame? Naphthalene Oleic acid					
7.	Which (A) (C)	n of the following compounds wil Naphthalene Ethane	(B) (D)	with a sooty flame? Propanol Butane					
8.	When (A) (B) (C) (D)	When ethanol reacts with sodium, the products are (A) sodium ethanoate and hydrogen (B) sodium ethoxide and oxygen (C) sodium ethoxide and hydrogen							
9.	sodium CORF (A) (B) (C)	few drops of acetic acid are m bicarbonate powder, a gas is exRECT about the gas evolved? It burns with pop sound. It turns lime water milky. It has a foul smell of rotten eggs It has a fruity smell.	volved						
10.		n of the following represents ester							
	(A)	$CH_3COOH + NaOH \longrightarrow CH_3$							
	(B)	$CH_3COOH + C_2H_5OH \xrightarrow{Acid} Catalyst$							
	(C) (D)	$2CH_3COOH + 2Na \longrightarrow 2CH_3COC_2H_5 + NaOH \longrightarrow CH_3COOC_2H_5 + NaOH \longrightarrow CH$							
11.	When (A) (B) (C) (D)	ethanoic acid reacts with ethanol is odourless has pungent odour has a foul smell of rotten eggs has a fruity smell	, the p	roduct formed					

CHAPTER 10: SPACE MISSIONS 1. The astronomical object closest to us is in our galaxy. [Mar 2020 (A) Mars (C) Jupiter (D) Moon 2. The artificial satellites work on energy. (A) gravitational (B) fuel (C) solar (D) potential 3. While launching a satellite in its orbit, the velocity is given to the satellite in tangential direction. (A) critical (B) escape (C) highest (D) lowest 4. The minimum velocity of the spacecraft to escape from earth' gravitational force must be [Dec 2020	
(A) Mars (C) Jupiter (D) Moon 2. The artificial satellites work on energy. (A) gravitational (C) solar (B) fuel (D) potential 3. While launching a satellite in its orbit, the velocity is given to the satellite in tangential direction. (A) critical (B) escape (C) highest (D) lowest 4. The minimum velocity of the spacecraft to escape from earth'	
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(A) gravitational (B) fuel (C) solar (D) potential 3. While launching a satellite in its orbit, the velocity is given to the satellite in tangential direction. (A) critical (B) escape (C) highest (D) lowest 4. The minimum velocity of the spacecraft to escape from earth'	'J
the satellite in tangential direction. (A) critical (B) escape (C) highest (D) lowest 4. The minimum velocity of the spacecraft to escape from earth'	
	0
(A) 112 km/s (B) 11.2 km/s (C) 1.12 km/s (D) 0.112 km/s	
5. The functioning of the satellite launch vehicle is based on [Mar 2022 (A) Newton's first law of motion (B) Newton's second law of motion (C) Newton's third law of motion (D) Newton's universal law of gravitation	<u>!</u>]
6. Presence of water on moon was first discovered by satellite sen by ISRO in 2008. (A) Sputnik (B) Aryabhatta (C) Chandrayaan-1 (D) IRNSS	nt
7. satellite in the INSAT and GSAT series is used specially in the field of education. (A) IRS (B) EDUSAT (C) Aryabhatta (D) IRNSS	.e
Ans: 1. (D) 2. (C) 3. (A) 4. (B) 5. (C) 6. (C) 7. (B)	



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