

Exam ID: 115

Name:

Date:

Exam Instructions

1. The timer has been set for the exam, and a countdown will display the remaining time. When the timer runs out, the exam will end automatically. No further action will be required after that.

- 2. You can flag any question that you want.
- 3. If you don't want to submit any of your provided answers, you can clear them.
- 4. If you choose to drop this exam, it will not be submitted, and no result will be generated.
- 5. Once you finish the exam, you cannot resume it.

Secure Exam Advice

This exam is specially secured. Which means you cannot leave your browser window once the exam starts.

The following actions are not supported during your exam.

- Minimizing the browser
- Resizing the browser
- Open a new tab
- Open a new program
- Taking a screenshot
- Pressing Ctrl + C
- Pressing Ctrl + V
- Pressing Print Screen
- Pressing F12

We are monitoring your activity during the exam, and any unusual behaviour is being tracked. Your admin has set the exam to terminate if a certain number of unusual activities are detected, which could be as low as one. To avoid your exam from being terminated, please refrain from any behaviour that may be considered unusual. All the best!

Question: 1 of 50	QID: 142	Marks:4
The given figure represents a material w	vhich is	
\rightarrow		
Please mark (\checkmark) for the correct answer.		
A. ferromagnetic	B. diamagnetic	
C. paramagnetic	O D. none of these	
Question: 2 of 50	QID: 109	Marks:4
A body is thrown vertically upwards with I. Both velocity and acceleration are zero II. Velocity is maximum and acceleration III. Velocity is maximum and acceleration	h a velocity u. Select the incorrect statements from the followir o at its highest point n is zero at the highest point. n is g downwards at its highest point.	ng.
Please mark (\checkmark) for the correct answer.		
○ A. I and III	B. II and III	
C. I and II	D. I, II and III	
Question: 3 of 50	QID: 123	Marks: 4
Question: 3 of 50 A solid sphere of density η (>1) times lines shown in fig. If the mass of the sphere is	QID: 123 ighter than water is suspended in a water tank by a string tied is m, then the tension in the string is given by	Marks: 4
Question: 3 of 50 A solid sphere of density η (>1) times li shown in fig. If the mass of the sphere i	QID: 123 ighter than water is suspended in a water tank by a string tied is m, then the tension in the string is given by	Marks: 4
Question: 3 of 50 A solid sphere of density η (>1) times li shown in fig. If the mass of the sphere i	QID: 123	Marks: 4
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Question: 3 of 50 A solid sphere of density η (>1) times lishown in fig. If the mass of the sphere is shown in fig. If the mass of the sphere is provide the sphere is a sphere in the sphere in the sphere is a sphere in the sphere in the sphere is a sphere in the sphere in the sphere is a sphere in the	PDF 123 The provide the string is given by a string tied is m, then the tension in the string is given by: $\int \int \mathbf{B} \cdot \frac{\eta m g}{g}$	Marks: 4

Question:	4 of 50 QI	ID: 115	1	Marks:4
What will be	e the final pressure if an ideal gas in a cylinder is	s compres	sed adiabatically to 1/3rd of its volume?	
Please mark	(✓) for the correct answer.			
A. Cha	ange in pressure will be less than three times e initial pressure.	○ В.	Final pressure will be three times less than init pressure.	ial
C. Cha	ange in pressure will be more than three times e initial pressure.	○ D.	Final pressure will be three times more than in pressure.	itial

Question: 5 of 50	ID: 131	Marks:4
A particle is executing SHM along a straight line. Its veloci V_2 , respectively. Its time period is	ies at distances x_1 and x_2 from the mea	In position are V_1 and
Please mark (\checkmark) for the correct answer.		
\bigcirc A. $2\pi\sqrt{rac{x_1^2-x_2^2}{V_1^2-V_2^2}}$) B. $2\pi\sqrt{rac{V_1^2+V_2^2}{x_1^2+x_2^2}}$	
\bigcirc c. $2\pi\sqrt{rac{V_1^2-V_2^2}{x_1^2-x_2^2}}$) D. $2\pi\sqrt{rac{x_2^2-x_1^2}{V_1^2-V_2^2}}$	
Question: 6 of 50	ID: 183	Marks: 4
Which of the following would be predicted if Henle's loop is	absent from a mammalian nephron?	
Please mark (\checkmark) for the correct answer.		
A. No urine would form	\bigcirc B. The urine would be more con	centrated
C. There would be very little variation in the amount and quality of urine created	O. The urine would be more dilu	ted.
Question: 7 of 50	ID: 189	Marks: 4
Leydig cells are found in		
Please mark (\checkmark) for the correct answer.		
A. Kidney of human	B. Testes of frog	
C. Testes of rabbit	D. Kidney of frog	

QID: 173 Marks: 4 Question: 8 of 50 Assertion: Gram-negative bacteria lack the ability to preserve the stain after exposure to alcohol. Reason: This inability stems from the composition of their outer membrane, specifically the presence of alcohol-soluble lipopolysaccharides. Please mark (\checkmark) for the correct answer. **A.** If both the Assertion and Reason are incorrect. **B.** If both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion. **C.** If both Assertion and Reason are correct and **D.** If Assertion is correct but Reason is incorrect. Reason is the correct explanation of Assertion. QID: 159 Marks: 4 Question: 9 of 50 Out of the following statements about enzymes, which statement (s) are incorrect? (i) Enzymes having slightly different molecular structure but performing identical activities are homoenzymes. (ii) An allosteric enzyme has an additional binding site for effector molecules other than the active site. (iii) The Turn over number is the maximal number of molecules of substrate converted to product per active site per unit time. (iv) Enzymes are sensitive to light, pH, wind and temperature. Please mark (\checkmark) for the correct answer. **A.** (i) and (iv) **B.** (i) and (iii) **C.** (i) and (ii) **D.** (i), (iii) and (iv) QID: 185 Marks: 4 Question: 10 of 50 Assertion: The imbalance in concentration of Na⁺, K⁺ and proteins generates resting potential. **Reason:** To maintain the unequal distribution of Na⁺ & K⁺, the neurons use electrical energy. Please mark (\checkmark) for the correct answer. () A. If the Assertion is correct but Reason is incorrect. () B. If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion.) **C.** If both Assertion and Reason are correct and the () **D.** If both the Assertion and Reason are incorrect.

Question: 11 of 50	QID: 249 Mark	ks:4
Which of the following is incorrect?		
Please mark (\checkmark) for the correct answer.		
\bigcirc A. Mn shows oxidation state of +7 in $\rm MnF_7$	\bigcirc B. Fe and Co shows +3 oxidation state in FeX_3 and CoF_3.	
\bigcirc C. Cu does not shows +2 oxidation state with I ⁻ .	\bigcirc D. V shows oxidation state of + 5 in VF_5.	

Reason is a correct explanation of the Assertion.

Question: 12 of 50		QID: 242		Marks:4
The adsorption of a gas o	n a solid surface varies with pr	essure of th	e gas in which of the following manner	
Please mark (\checkmark) for the corre	ect answer.			
A. Independent of the	he pressure \rightarrow fast \rightarrow slow	🔵 В.	$\mbox{Fast} \rightarrow \mbox{slow} \rightarrow \mbox{independent}$ of the pressure	
$\bigcirc \textbf{C.} Slow \rightarrow fast \rightarrow ind$	lependent of the pressure	○ D.	Independent of the pressure \rightarrow slow \rightarrow fast	
Question: 13 of 50		QID: 235		Marks: 4
Which of the following sec stands for false statemen (i) Frenkel defect results in (ii) ZnS, AgCl, AgBr and A (iii) Schottky defect result (iv) AgBr shows Schottky (v) For NaCl there is one S	quence of T and F is true for given t? n increase in density of the soli AgI shows Frenkel defect. is in decrease in density of the defect only. Schottky defect per 10 ¹⁶ ions.	ven stateme d. solid.	ents. Here T stands for true statement and F	
			ETTEE	
Question: 14 of 50		QID: 247		Marks:4
Larger number of oxidatio	on states are exhibited by the a	actinoids tha	in those by the lanthanoids, the main reason	being
Please mark (\checkmark) for the corre	ect answer.			
A. more energy difference between 4f and 5	erence between 5f and 6d than id orbitals	○ В.	4f orbitals more diffused than the 5f orbitals	;
C. lesser energy diff between 4f and 5	erence between 5f and 6d than d orbitals	n () D.	more reactive nature of the actionids than the lanthanoids	າຍ
Question: 15 of 50		QID: 233		Marks: 4
Which of the following sta (i) Classical smog is a mix (ii) Classical smog is also o (iii) Hydrocarbons, NO2 ar	ntement(s) is/are correct ? ture of smoke, fog and sulphun called oxidising smog nd PAN are components of pho	r dioxide. tochemical s	smog.	
Please mark (\checkmark) for the corre	ect answer.			
(i) and (ii)		○ В.	(iii) only	
O C. (i), (ii) and (iii)		○ D.	(i) and (iii)	

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Question: 16 of 50	QID: 577		Marks:4
The least resistance obtained by using 2 Ω , 4 Ω , 1 Ω and	d 100 Ω is		
Please mark (\checkmark) for the correct answer.			
(A. > 2 Ω	◯ В.	< 4 Ω	
○ C. < 1 Ω	○ D.	< 100 Ω	
Question: 17 of 50	QID: 551		Marks: 4
Identify the figure with its correct function			
Please mark (✓) for the correct answer. A. Areolar connective tissue – Provide flexibility	○ В.	Dense regular tissue – Provide strength and elasticity	
C. Dense irregular tissue –Serves as a support framework for epithelium) D.	Adipose tissue – Store fats and act as heat insulators {c}	
Question: 18 of 50	QID: 550		Marks: 4
Assertion: Sponges have body organization of "cellular Reason: There is some physiological division of labour.	level".		
Please mark (\checkmark) for the correct answer.			
A. If both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion. {c}	○ В.	If both the Assertion and Reason are incorre	ect.
C. If both Assertion and Reason are correct and Reason is the correct explanation of Assertion.	○ D.	If Assertion is correct but Reason is incorrec	t.

Question: 19 of 50	QID: 578	Marks: 4
Assertion (A): As the speed of the coil in the motor in it.Reason (R): During rotation in an electric motor, so	ncreases, there is a reduction in the current flowing one induced current is produced.	through
Please mark (✓) for the correct answer.		
\bigcirc A. (A) is correct and (R) is incorrect	B. Both (A) and (R) are correct, but (R correct explanation of (A)	.) is not the
C. Both (A) and (R) are correct but (R) is the conversion of (A)	prrect O D. (A) is incorrect and (R) is correct	
Question: 20 of 50	QID: 548	Marks:4
Match the Column I with Column II		
A. Algae	i. Dryopteris	
C. Fern	iii. Ulothrix	
D. Fungus	iv. Funaria	
Please mark (\checkmark) for the correct answer.		
\bigcirc A. A \rightarrow i, B \rightarrow iv, C \rightarrow ii, D \rightarrow iii	○ B. A→iii, B→iv, C→i, D→ii	
$\bigcirc \mathbf{C}. \mathbf{A} \rightarrow \mathbf{i} \mathbf{i} \mathbf{i}, \ \mathbf{B} \rightarrow \mathbf{i}, \ \mathbf{C} \rightarrow \mathbf{i} \mathbf{v}, \ \mathbf{D} \rightarrow \mathbf{i} \mathbf{i}$	○ D. A→i, B→ii, C→iii, D→iv	
Question: 21 of 50	QID: 571	Marks:4
Addition reactions are undergone by		
Please mark (\checkmark) for the correct answer.		
• A. both alkenes and alkynes	B. saturated hydrocarbons (alkanes)	
C. only alkenes	\bigcirc D . only alkynes	
Question: 22 of 50	QID: 547	Marks:4
Assertion: Chemosynthesis is an autotrophic nutritic)n.	
Reason: Chemoautotrophs do not contain chlorophy	/Il niaments	
Please mark (✓) for the correct answer.		
\frown A If both the Acception and Descender are incorrect	et OB If Accortion is correct but Descen is	incorrect (c)
A. II both the Assertion and Reason are Incorre		mcorrect. {C}
C. If both Assertion and Reason are correct, bu Reason is not the correct explanation of Assertion.	t () D. If both Assertion and Reason are concerned to the correct explanation of Reason is the correct explanation of	f Assertion.

Question: 23 of 50	QID: 579	Marks:4
An image of an object produced on a screen w times the size of the object. What is the size o	hich is about 36 cm using a convex lens. The image produce f the object?	d is about 3
Please mark (\checkmark) for the correct answer.		
A. 39 cm	B. 33 cm	
○ C. 108 cm	○ D. 12 cm	
Question: 24 of 50	QID: 561	Marks: 4
THE MOON'S MOTION, AND ALL THE OTHER MOTION AROUND US, WE FIRST ASI THE QUESTION: WHAT DO OBJECTS DO WHEN NO FORCE IS ACTING?		
Please mark (✓) for the correct answer.		
A. Accelerate	B. Fall with non uniform acceleration	
C. Fall	() D. Decelerate	
Question: 25 of 50		
	QID: 562	Marks:4
Why gravitational force is always attractive?	QID: 562	Marks: 4
Why gravitational force is always attractive? Please mark (✓) for the correct answer.	QID: 562	Marks: 4
Why gravitational force is always attractive? Please mark (✓) for the correct answer. ○ A. Due to heavy Masses	QID: 562	Marks: 4

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Question: 26 of 50	QID: 566	Marks: 4
An alpha particle is also known as:		
Please mark (\checkmark) for the correct answer.		
○ A. subatomic particle	B. a neutral particle	
\bigcirc C. an unionised helium atom	D. a doubly-charged helium ion	

Question: 27 of 50	QID: 573		Marks: 4
Three beakers labelled as A, B and C each containing 2 CuSO4 and NaCl were added to the beakers A, B and C temperature of the solution contained in beakers A and falls. Which one of the following statement(s) is (are) of (ii) In beakers A and B, endothermic process has occur beaker C endothermic process has occurred.	25 ml of water C respectively d B, whereas correct? (i) In rred. (iii) In be	were taken. A small amount of NaOH, anhyd It was observed that there was an increase in case of beaker C, the temperature of the s beakers A and B, exothermic process has oc eaker C exothermic process has occurred.(iv)	rous in the olution curred. In
Please mark (✓) for the correct answer.			
A. (ii) only	🔵 В.	(i) and (iv)	
C. (i) only	○ D.	(iv), (ii) and (iii)	
Question: 28 of 50	QID: 580		Marks: 4
A student studies that a convex lens always forms a v mirror to always form a virtual image?	<mark>irtu</mark> al image ir	respective of its position. What causes the co	onvex
Please mark (\checkmark) for the correct answer.			
A. Because the reflected ray converges at a single point	le 🔿 B.	Because the reflected ray never intersects	
C. Because the incident ray traces its path back a the principal axis	along () D.	Because the incident ray of a convex mirror absorbed in the mirror	gets
Question: 29 of 50	QID: 565		Marks:4
A key of a mechanical piano struck gently and then str	uck again but	mush harder this time. In the second case	

 Please mark (✓) for the correct answer.

 A. sound will be louder and pitch will also be higher

 B. sound will be louder but pitch will be lower

 D. both loudness and pitch will remain unaffected

	QID: 556	Marks: 4
DNA is present in		
Please mark (\checkmark) for the correct answer.		
○ A. Chromosomes and dictyosomes	B. Chloroplasts and lysosomes	
C. Mitochondria and chloroplasts	D. Mitochondria and endoplasmic re	eticulum
Question: 31 of 50	QID: 575	Marks:4
Which of the following are exothermic processes Evaporation of water (iv) Sublimation of campho	?(i) Reaction of water with quick lime (ii) Dilution of a r (crystals)	n acid (iii)
Please mark (\checkmark) for the correct answer.		
A. (i) and (ii)	B. (ii) and (iii)	
C. (ii) and (iv)	D. (i) and (iv)	
4		
Out of the given statements, find out the correc	t statement (s):	
Out of the given statements, find out the correct.	t statement (s):	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous.	t statement (s):	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator	t statement (s): ory system.	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory	t statement (s): ory system. system.	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (✓) for the correct answer.	t statement (s): pry system. system.	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (<) for the correct answer.	t statement (s): nry system. system. B. I, II and III	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (✓) for the correct answer. A. I, II C. II, III and IV	t statement (s): nry system. system. B. I, II and III D. I, III and IV	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (✓) for the correct answer. A. I, II C. II, III and IV	t statement (s): rry system. system. B. I, II and III D. I, III and IV QID: 557	
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (<) for the correct answer.	t statement (s): ry system. system. B. I, II and III D. I, III and IV QID: 557 with homozygous white flower plant, the offsprings v	Marks: 4
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (✓) for the correct answer.	t statement (s): wy system. system. B. I, II and III D. I, III and IV QID: 557 with homozygous white flower plant, the offsprings w	Marks: 4
Out of the given statements, find out the correct I. Birds are homeothermic. II. All echinoderms are viviparous. III. Roundworm do not have circulator IV. Earthworm has closed circulatory Please mark (✓) for the correct answer.	t statement (s): Try system. System. B. I, II and III D. I, III and IV QID: 557 with homozygous white flower plant, the offsprings v All White flower plants	Marks: 4

Question: 34 of 50	QID: 569	Marks:4
Which of the following represents 12 u?		
Please mark (\checkmark) for the correct answer.		
A. Mass of 0-16 atom	B. Mass of 1 hydrogen atom	
C. Mass of C-12 atom	D. 1/12th of mass of C-12 atom.	
Question: 35 of 50	QID: 559	Marks:4
Which one of the following events is correc	ctly matched with the time period in a normal menstrual cyc	le?
Please mark (\checkmark) for the correct answer.		
A. Release of egg: 5th day	B. Rise in progesterone level : 1-15	5 days
C. Endometrium secretes nutrients for 11-18 days	or implantation: 🔘 D. Endometrium regenerates: 5-10	days
Question: 36 of 50	QID: 564	Marks: 4
An iron sphere of mass 10 kg has the sam dropped simultaneously from a tower. Whe	ne diameter as an aluminium sphere of mass is 3.5 kg. Both	spheres are
Please mark (✓) for the correct answer.		
A. potential energy	B. acceleration	
○ C. momenta	D. kinetic energy	
Question: 37 of 50	QID: 554	Marks: 4
Which of the following statement is true?		
Please mark (\checkmark) for the correct answer.		
○ A. Chymotrypsin can digest casein.	B. Pepsin cannot digest collagen.	
C. Trypsin can digest casein.	D. Pepsin cannot digest casein.	
	01D: 553	Marke 4
Question: 38 of 50		PIGING: T
A man whose blood group is not known m one of the blood groups readily available in	neets with a serious accident and needs blood transfusion in In the hospital will be safe for transfusion?	nmediately, which
Please mark (\checkmark) for the correct answer.		
() A. AB+	() B. 0-	
() C. AB-	() D. 0+	



○ A.	Tubectomy	○ В.	Vasectomy
⊖ с .	Uterine cancer	○ D.	Ovarian cancer

 Question: 41 of 50
 QID: 568
 Marks: 4

 Which of the following statements are true for pure substances?(i) Pure substances contain only one kind of particles (ii) Pure substances have the same composition throughout (iv) Pure substances can be exemplified by all elements other than nickel

 Please mark (✓) for the correct answer.
 B. (i) and (ii)
 B. (i) and (ii)

 C. (ii) and (iv)
 D. (i) and (iii)

Question: 42 of 50	QID: 563	Marks:
Two army persons A and B each of weight of 500 I 40 s to achieve this task. What is ratio of the powe	N climb up a rope through a height of 10 n ers of person A and B?	n. A takes 20 s while B take
Please mark (✓) for the correct answer.		
○ A. 14 : 1	○ B. 1:4	
C. 1:2	D. 2 : 1	
Question: 43 of 50	QID: 567	Marks:
Which of the following correctly represents 360 g c molecules of water (iv) 1.2044 \times 1025 molecules o	of water?(i) 2 moles of H2O (ii) 20 moles of f water	⁻ water (iii) 6.022 × 1023
Please mark (\checkmark) for the correct answer.		
○ A. (i) and (iv)	B. (i)	
C. (ii) and (iv)	D. (ii) and (iii)	
Question: 44 of 50	QID: 570	Marks
A. only (i)	B. (i) and (iv)	
C. (i) and (iii)		
	D. (ii) and (iii)	
Question: 45 of 50	D. (ii) and (iii) QID: 572	Marks
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken	D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to	Marks: the guard tube containing
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer.	D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to	Marks: the guard tube containing
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer. A. absorb Cl- ions from the evolved gas	D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to B. absorb moisture from the guard tube is to	Marks: the guard tube containing he gas
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer. A. absorb Cl- ions from the evolved gas C. absorb the evolved gas	 D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to B. absorb moisture from the gas D. moisten the gas 	Marks: the guard tube containing he gas
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer. A. absorb Cl- ions from the evolved gas C. absorb the evolved gas Question: 46 of 50	 D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to B. absorb moisture from the gas D. moisten the gas QID: 574 	Marks: the guard tube containing he gas Marks:
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer. A. absorb Cl- ions from the evolved gas C. absorb the evolved gas Question: 46 of 50 The highly reactive metals like Sodium, Potassium,	 D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to B. absorb moisture from the gas D. moisten the gas QID: 574 Magnesium, etc. are extracted by the 	Marks: the guard tube containing he gas Marks:
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer. A. absorb Cl- ions from the evolved gas C. absorb the evolved gas Question: 46 of 50 The highly reactive metals like Sodium, Potassium, Please mark (✓) for the correct answer.	 D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to B. absorb moisture from the gas QID: 574 Magnesium, etc. are extracted by the 	Marks: the guard tube containing he gas Marks:
Question: 45 of 50 When hydrogen chloride gas is prepared on a hum calcium chloride. The role of calcium chloride taken Please mark (✓) for the correct answer. ▲. absorb Cl- ions from the evolved gas C. absorb the evolved gas Question: 46 of 50 The highly reactive metals like Sodium, Potassium, Please mark (✓) for the correct answer. ▲. electrolysis of their molten oxides	 D. (ii) and (iii) QID: 572 id day, the gas is usually passed through the guard tube is to B. absorb moisture from the gas D. moisten the gas QID: 574 Magnesium, etc. are extracted by the B. reduction by aluminium 	Marks: the guard tube containing he gas Marks:

Question: 47 of 50	QID: 576	Marks: 4			
For a current in the long straight solenoid, N a the incorrect statement is:	ind S-poles are created at the two ends. Among t	the following statement,			
Please mark (\checkmark) for the correct answer.	Please mark (✓) for the correct answer.				
A. The strong magnetic field produced in solenoid can be used to magnetise a p magnetic material like soft iron when p the coil	side the B. The N and S-poles exchand biece of a direction of the current the placed inside reversed	ige position when the rough the solenoid is			
C. The field lines inside the solenoid are in straight lines, which indicates that the field is the same at all points inside the	n the form of O. The pattern of the magnetic e solenoid be magnetic field around a ba	tic field associated with om the pattern of the ar magnet.			
Question: 48 of 50 QID: 546 Marks: 4					
Out of the given statements, find out the incorrect statement (s):					
I. Bacterial cell wall is made up of chitin.					
II. Viruses can multiply only when they are inside the living cells.					
III. Cyanobacteria are also called blue green algae; they are chemosynthetic heterotrophs.					
IV. Lichens are the symbiotic association between algae and fungi.					
Please mark (✓) for the correct answer.					
○ A. II and IV	B. I and II				
C. I and III	D. II and III				
Question: 49 of 50	QID: 552	Marks: 4			
What is common between chloroplasts, chromoplasts and leucoplasts?					

Please mark (\checkmark) for the correct answer.	
\bigcirc A. Ability to multiply by a fission-like process	\bigcirc B. Possession of thylakoids and grana.
\bigcirc C. Storage of starch, proteins and lipids.	\bigcirc D. Presence of pigments.

Question: 50 of 50	QID: 555 Marks: 4			
Which of the following match is correct?				
Hormone	Effect			
A. Oxytocin B. Glucagon	Milk ejection hormone Decreases blood sugar level			
D. Thyroxine	 Decreases BMR 			
Please mark (✓) for the correct answer.	○ B. D			
○ C. A	О D. В			

--- END OF QUESTION PAPER ----

National Level ScienceX Olympiads ScienceX Olympiad | Level 3

Answer Key

No	Question Type	QID	Correct Answer
Question - 1	Multiple Choice (Radiobutton)	142	В
Question - 2	Multiple Choice (Radiobutton)	109	D
Question - 3	Multiple Choice (Radiobutton)	123	С
Question - 4	Multiple Choice (Radiobutton)	115	С
Question - 5	Multiple Choice (Radiobutton)	131	D
Question - 6	Multiple Choice (Radiobutton)	183	D
Question - 7	Multiple Choice (Radiobutton)	189	В
Question - 8	Multiple Choice (Radiobutton)	173	С
Question - 9	Multiple Choice (Radiobutton)	159	A
Question - 10	Multiple Choice (Radiobutton)	185	A
Question - 11	Multiple Choice (Radiobutton)	249	A
Question - 12	Multi <mark>ple Choice (Radi</mark> obutton)	242	В
Question - 13	Multiple Choice (Radiobutton)	235	D
Question - 14	Multiple Choice (Radiobutton)	247	С
Question - 15	Multiple Choice (Radiobutton)	233	D
Question - 16	Multiple Choice (Radiobutton)	577	С
Question - 17	Multiple Choice (Radiobutton)	551	D
Question - 18	Multiple Choice (Radiobutton)	550	A
Question - 19	Multiple Choice (Radiobutton)	578	С
Question - 20	Multiple Choice (Radiobutton)	548	В
Question - 21	Multiple Choice (Radiobutton)	571	A
Question - 22	Multi <mark>ple Choice (Radiobu</mark> tton)	547	В
Question - 23	Multiple Choice (Radiobutton)	579	D
Question - 24	Multiple Choice (Radiobutton)	561	С
Question - 25	Multiple Choice (Radiobutton)	562	D
Question - 26	Multiple Choice (Radiobutton)	566	D
Question - 27	Multiple Choice (Radiobutton)	573	В
Question - 28	Multiple Choice (Radiobutton)	580	В
Question - 29	Multiple Choice (Radiobutton)	565	С
Question - 30	Multiple Choice (Radiobutton)	556	С
Question - 31	Multiple Choice (Radiobutton)	575	A
Question - 32	Multiple Choice (Radiobutton)	549	D
Question - 33	Multiple Choice (Radiobutton)	557	D
Question - 34	Multiple Choice (Radiobutton)	569	С
Question - 35	Multiple Choice (Radiobutton)	559	D
Question - 36	Multiple Choice (Radiobutton)	564	В
Question - 37	Multiple Choice (Radiobutton)	554	A
Question - 38	Multiple Choice (Radiobutton)	553	В
Question - 39	Multiple Choice (Radiobutton)	558	D
Question - 40	Multiple Choice (Radiobutton)	560	А
Question - 41	Multiple Choice (Radiobutton)	568	D
Question - 42	Multiple Choice (Radiobutton)	563	D
Question - 43	Multiple Choice (Radiobutton)	567	с

No	Question Type	QID	Correct Answer
Question - 44	Multiple Choice (Radiobutton)	570	С
Question - 45	Multiple Choice (Radiobutton)	572	В
Question - 46	Multiple Choice (Radiobutton)	574	D
Question - 47	Multiple Choice (Radiobutton)	576	D
Question - 48	Multiple Choice (Radiobutton)	546	С
Question - 49	Multiple Choice (Radiobutton)	552	С
Question - 50	Multiple Choice (Radiobutton)	555	С

---- END OF ANSWER KEY ----