

# SAMPLE PAPER

# MENTORS TALENT SEARCH EXAMINATION

# FOR STUDENTS IN CLASS X AND GOING TO CLASS XI

### Time : 3 hours

DO NOT BREAK THE SEALS ON THIS BOOKLET, AWAIT INSTRUCTIONS FROM THE INVIGILATOR.

8.

9.

## INSTRUCTIONS

Maximum Marks: 460

()

#### (A) General: 1. This Question paper contains FOUR Parts (Physics, Chemistry, Biology & Analytical Ability) containing 115 questions in all.

- 2. This Question Paper contains 15 pages, other than the OMR.
- 3. The Question Paper has blank spaces at the bottom of each page for rough work.No additional sheets will be provided for rough work.
- Blank papers, clip boards, log tables, slide rule, calculators, cellular phones, pagers and 4. electronic gadgets, in any form, are **NOT** allowed.
- 5. This booklet also contains the OMR answer sheet (i.e., A machine gradable Response Sheet).

#### **(B)** Answering on the OMR:

- 6. Each question will have 4 choices in both the Sections, out of which only one choice is correct.
- Darken the bubble with Ball Pen (Blue or Black) ONLY. 7.
- (C) Filling – in Name and Registration No.
  - On the **OMR sheet**, write your Name and Registration No. in ink. Also, put your signature in the appropriate box in ink.

(D)	Marking Scheme:
9.	(a) For each question, you will be awarded 4 marks if you have darkened only one bubble
	corresponding to the right answer.

- (b) In case you have not darkened any bubble, you will be awarded 0 mark for that question.
- (c) In all other cases, you will be awarded -1 mark.

Name :.....

**Registration No.:** 

Head Office : Jugeshwar Bhawan, Plot # 4, Main Boring Road, Patna - 800001









### Sample Paper Class X

- **23.** Pick up the correct statements:
  - (A) area under a t graph gives velocity
  - (B) area under a t graph gives change in velocity
  - (C) path of projectile as seen by another projectile is parabola
  - (D) none of these
- 24. A car accelerates from rest at a constant rate  $\alpha$  for some time, after which it decelerates at a constant rate  $\beta$  to come to rest. If the total time elapsed is t, the maximum velocity acquired by car is

(A) 
$$V = \frac{\alpha\beta}{(\alpha+\beta)}t$$
 (B)  $V = \frac{\alpha\beta}{(\alpha-\beta)}t$  (C)  $V = \frac{2\alpha\beta}{(\alpha+\beta)}t$  (D)  $V = \frac{2\alpha\beta}{(\alpha-\beta)}t$ .

SECTION - B

(Comprehension Type)

This section contains **2 paragraphs**. Based upon the paragraph 3 multiple choice questions have to be answered. Each of these questions has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

### Paragraph-1

Figures shows a simplified model of the eye that is based on the assumption that all of the refraction of entering light occurs at the cornea. The cornea is a converging lens located at the outer surface of the eye with fixed focal length approximately equal to 2 cm. Parallel light rays coming from a very long distance object are refracted by the cornea to produce a focused image on the retina. The retina then transmits electrical impulse along the optic nerve to the brain.



Two common defects of vision are myopia and hyperopia. Myopia, sometimes referred to as nearsightedness, occurs when the cornea focuses the image of a distant object in front of the retina. Hyperopia, sometimes referred to as farsightedness, occurs when the cornea focuses the image of a nearby object behind the retina. Both of these problems can be corrected by introducing another lens in front of the eye so that the two lens system produces a focused image on the retina. If an object is so far away from the lens system that its distance may be taken as infinite, then the following

relationship holds.  $\frac{1}{f_c} + \frac{1}{f_1 - x} = \frac{1}{v}$ , where  $f_c$  is the focal length of the cornea,  $f_1$  is the focal length of

the correcting lens. *X* is the distance from the correcting lens to the cornea, and v is the image distance measured from the cornea (Note: The index of refraction is 1.0 for air and 1.5 for glass)

25. How far away should the retina be from the cornea for normal vision?

(A) 0.5 cm	(B) 1.0 cm	(C) 2.0 cm	(D) 4.0 cm
------------	------------	------------	------------

26. For a distant object, the image produced by the cornea is

(A) real and inverted	(B) real and upright
(C) virtual and inverted	(D) virtual and upright







PART-II : CHEMISTRY									
SECTION - A									
	(Single Correct Answer Type)								
			uestions. Each	question has	s 4 choices (A), (B), (C	C) and (D), οι			
	of which ONLY ONE is correct.								
31.		lowing chemical spec			<i></i>				
	(i) NH <sub>3</sub>	(ii) B(OH) <sub>3</sub>	(iii) F	5	(iv) BH <sub>3</sub>				
	(v) H <sub>2</sub> O	(vi) Cl⁻	(vii) C	<b>Cr</b> <sup>+3</sup>	(viii) CH <sub>4</sub>				
	(ix) HCOOH	4							
		species among the al							
~~	(A) 3	(B) 5	(C) 6		(D) 7				
32.	-	HOCI solution is kept	t on litmus pape	rs :					
	(A) It turns blue I								
	(B) It turns red lit	• •		ourloop ofto	r a a matima				
		litmus paper red whit							
<b>^</b> 2		tmus paper blue whi				luad in a pur			
33.		low the sampe will	nitaleu fino <sub>3</sub> a	gas is evon	ved, this gas is disso	ived in a pur			
	(A) Turn blue litn	nus red							
	(B) Turn red litm	us blue							
	(C) No change ir	n colour of any litmus	i						
	(D) There is no r	eaction of copper wit	h the nitric acid						
34.	In the extraction	of copper the smelt f	ormed in the rev	verberatory f	urnace contains				
	(A) $Cu_2S$ + little	FeS	(B) (	$Cu_2S$ + little	FeO				
	(C) $Cu_2O$ + little	FeS	(D) (	$Cu_{2}O$ + little	FeO				
35.	-	ctly matched pair		2					
	Ores		Metal	s					
	(A) Sylvine	-	Potas	-					
	(B) Malachite	-	Magn						
	(C) Cinnabar	-	Mercu						
	(D) Fluorite	-	Calciu	•					
36.		owing is a redox read	tion						
	(A) $CH_3COOH$	$+C_{2}H_{5}OH \rightarrow CH_{3}CO$	$OOC_2H_5 + H_2O$						
		$V_2SO_4 \rightarrow Na_2SO_4 + 2I_4$							
	(C) $Zn + CuSO_4$	$\rightarrow ZnSO_4 + Cu$							
		$IO \rightarrow AaCl + NaNO$							
	(D) $NaCl + AgN$	$O_3$ / $IigCi + Ival VO_3$	3						

[ 8 ]				Sample Paper Class X
37.	In cold water Bleach	ing powder ionises to forr	n	
	(A) Ca <sup>2+</sup> , Cl <sup>-</sup> and Cl0	)-	(B) CaO, Cl⁻	
	(C) Ca²+, Cl⁻ and Cl0	D <sub>3</sub> -	(D) $Ca^{2+}, Cl^{-} and ClO_{2}^{-}$	
38.	On balancing followi	ng equation		
	N <sub>2</sub> H <sub>4</sub> +bAgNO <sub>3</sub> +KOł	$H \longrightarrow N_2 + Ag + KNO_3 + H_2 C$	D	
	What is value of b			
	(A) 1	(B) 2	(C) 3	(D) 4
39.	12 g of Mg will react	completely with an acid to	o give	
	(A) 1 mole of $O_2$		(B) $\frac{1}{2}$ mole of H <sub>2</sub>	
			L	
	(C) 1 mole of H <sub>2</sub>		(D) 2 moles of H <sub>2</sub>	
40.		• • •	hite and diamond is true?	
		ame crystal structure		
		ame degree of hardness		
		ame electrical conductivity		
		go the same chemical rea	Ctions	
41.	The soap molecule h	and a hydrophobic tail	(B) hydrophobic head ar	ad a hydrophilia tail
		d and a hydrophobic tail	(D) hydrophilic head an	
42.		ng is correct order of aton		
	(A) Li < Na < K < Rb	-	(B) $Li > Na > K > Rb > C$	S
	(C) Na < K < Li < Rb		(D) $K < Na < Li < Rb < C$	
43.		ng has most non-metallic		-
	(A) N	(B) O	(C) C	(D) F
44.		ng is correct order of size		< <i>,</i>
	(A)  ⁺ >   >   <sup>−</sup>	(B)   <sup>−</sup> >   >   <sup>+</sup>	(C)   >  ⁺ >  ⁻	(D)   > I <sup>−</sup> > I <sup>+</sup>
45.			us, what will be increase in to	
	(A) 1 K	(B) 273 K	(C) 274 K	(D) 374 K
46.	Which of the following	ng is largest in size ?		
	(A) <sub>Na<sup>+</sup></sub>	(B) Cl₋	(C) Mg <sup>++</sup>	(D) O <sup>2-</sup>
47.	Which of the followir	ng have least non-metallio	character	
	(A) Fluorine	(B) Chlorine	(C) Bromine	(D) lodine
48.	. ,	ng have highest melting po		、 <i>/</i>
	(A) Fluorine	(B) Chlorine	(C) Bromine	(D) lodine
		(-)	(-)	(- ) · · · · · · ·



49.	<b>49.</b> A solid is crystalline, has high melting point and is water soluble. The solid is							
	(A) ionic			(	B) covalant			
	(C) Co-ordinate			(	D) Both A and	В		
50.	Among the following	ng whicł	n is ionic in na	ture?				
	(A) Oxygen	(B	) Calcium Ox	ide (	C) Water		(D) methane	
51.	An organic acid is	:						
	(A) Formic acid			(	B) Sulphuric a	icid		
	(C) Nitric acid			(	D) Hydrochlor	ic acid		
2.	Which of the follow	wing is i	ncorrectlly ma	tched with	its colour			
	(A) Chromium Sal	lt - Gree	n	(	B) Amonium S	Salt - Whi	te	
	(C) Aluminum Salt	t - Black	ί.	(	D) Copper Sa	lt - Blue		
53.	What volume of ox 273°C and at 380		-	ed to affec	t the combustic	on of 11 li	tres of ethylene [C	<sub>2</sub> H <sub>4</sub> ]
	$C_2H_4 + 3O_2$	→2CC	$O_2 + 2H_2O$					
	(A) 33 litre			(	B) 16.5 litre			
	(C) 8.25 litre			(	D) None of the	ese		
				2 gm sodium sulphate				
54.	What is the numbe	er of soc	dium ion in 14	.2 gm sodi	um sulphate			
54.	What is the number (A) $6.02 \times 10^{22}$		dium ion in 14 ) $6.02 \times 10^{23}$	-	um sulphate C) $1.2 \times 10^{22}$		(D) 1.2 × 10 <sup>23</sup>	
54.			) $6.02 \times 10^{23}$	-	C) $1.2 \times 10^{22}$		(D) 1.2 × 10 <sup>23</sup>	
54.			) $6.02 \times 10^{23}$	(	C) 1.2 × 10 <sup>22</sup> - <b>B</b>		(D) 1.2 × 10 <sup>23</sup>	
This base		(B <b>paragr</b> paragrap	) 6.02 × 10 <sup>23</sup> ( <b>Con</b> ( <b>Con</b> ( <b>aphs</b> . Based ( <b>bh 3</b> multiple ch	( SECTION prehensic upon the noice quest	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be	answere	ole choice questior	
base nas	(A) $6.02 \times 10^{22}$ section contains <b>2</b> ed upon the second p	(B <b>paragr</b> paragrap	) 6.02 × 10 <sup>23</sup> ( <b>Con</b> ( <b>Con</b> ( <b>aphs</b> . Based ( <b>bh 3</b> multiple ch	( SECTION prehensic upon the noice quest	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be	answere	ole choice questior	
This base has	(A) $6.02 \times 10^{22}$ section contains <b>2</b> ed upon the second p four choices (A), (B)	(B paragr paragrap b), (C) an (B) give f (B) give illute HC ) with dil	b) $6.02 \times 10^{23}$ (Com aphs. Based of 3 multiple ch and (D) out of v g decompose as a white prece l and the solution ute H <sub>2</sub> SO <sub>4</sub> also	( SECTION prehension upon the noice quest which ONL es, leaving cipitate (C) v ion is treate o gives a w	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be Y ONE is corre a residue (B) w with ammonium d with potassiu hite precipitate	answere ect. which goe carbona m chroma	ble choice question d. Each of these que es into solution with te solution. The pre- ate to get yellow pre-	estion dilu cipita
This base has	(A) $6.02 \times 10^{22}$ section contains <b>2</b> ed upon the second p four choices (A), (B) <b>agraph-1</b> Metal nitrate (A) or HCI. The solution of (C) is dissolved in di (D), the solution (B)	(B paragr paragrap b), (C) an f (B) give illute HC ) with dil te (E) is	b) $6.02 \times 10^{23}$ (Com aphs. Based of 3 multiple ch and (D) out of v g decompose as a white prece l and the solution ute H <sub>2</sub> SO <sub>4</sub> also	( SECTION prehension upon the noice quest which ONL es, leaving cipitate (C) v ion is treate o gives a w	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be Y ONE is corre a residue (B) w with ammonium d with potassiu hite precipitate	answere ect. which goe carbona m chroma	ble choice question d. Each of these que es into solution with te solution. The pre- ate to get yellow pre-	estion dilu cipita
This base has <b>Para</b>	(A) $6.02 \times 10^{22}$ section contains <b>2</b> ed upon the second p four choices (A), (B) <b>agraph-1</b> Metal nitrate (A) or HCI. The solution of (C) is dissolved in di (D), the solution (B) acid. The precipitat	(B paragr paragrap b), (C) an (B) give ilute HC ) with dil te (E) is ) is :	b) $6.02 \times 10^{23}$ (Composed on 3 multiple chand (D) out of v g decomposed a white precises a white precise a white a precise a part of a whole a part of	( SECTION aprehension upon the noice quest which ONL es, leaving cipitate (C) which is treate o gives a white pigmen	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be Y ONE is corre a residue (B) w with ammonium d with potassiu hite precipitate	answered ect. which goe carbona m chroma (E) insolu	ble choice question d. Each of these que es into solution with te solution. The pre- ate to get yellow pre-	estio n dilu cipita
This base bas Para	(A) $6.02 \times 10^{22}$ section contains <b>2</b> ed upon the second p four choices (A), (B) <b>agraph-1</b> Metal nitrate (A) or HCI. The solution of (C) is dissolved in di (D), the solution (B) acid. The precipitat The compound (E)	(B paragr paragrap b), (C) ar n heatin f (B) give illute HC ) with dil te (E) is ) is : (B) /	b) $6.02 \times 10^{23}$ (Composed on 3 multiple chand (D) out of wards a white predict of a second of the solution of the solutio	( SECTION aprehension upon the noice quest which ONL es, leaving cipitate (C) which is treate o gives a white pigmen	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be Y ONE is corre a residue (B) w with ammonium d with potassiu hite precipitate t lithopone.	answered ect. which goe carbona m chroma (E) insolu	ble choice question d. Each of these que es into solution with te solution. The pred ate to get yellow pred uble in dilute HCI an	estio n dilu cipita
This base bas Para	(A) $6.02 \times 10^{22}$ section contains 2 ed upon the second p four choices (A), (B) <b>agraph-1</b> Metal nitrate (A) or HCI. The solution of (C) is dissolved in di (D), the solution (B) acid. The precipitat The compound (E) (A) $BaSO_4$	(B paragr paragrap b), (C) an n heatin f (B) give ilute HC ) with dil te (E) is ) is : (B) / tate (D)	b) $6.02 \times 10^{23}$ (Composed on 3 multiple characteristic of 10	( SECTION aprehension upon the noice quest which ONL es, leaving cipitate (C) w ion is treate o gives a w ite pigmen (C)	C) 1.2 × 10 <sup>22</sup> - B on Type) first paragraph ions have to be Y ONE is corre a residue (B) w with ammonium d with potassiu hite precipitate t lithopone.	answered ect. which goe carbona m chroma (E) insolu (D)	ble choice question d. Each of these que es into solution with te solution. The pred ate to get yellow pred uble in dilute HCI an	estio n dilu cipita
This base has <b>Para</b>	(A) $6.02 \times 10^{22}$ section contains <b>2</b> ed upon the second p four choices (A), (B) <b>agraph-1</b> Metal nitrate (A) or HCI. The solution of (C) is dissolved in di (D), the solution (B) acid. The precipitat The compound (E) (A) $BaSO_4$ The yellow precipit	(B paragr paragrap b), (C) an (B) give ilute HC ) with dil te (E) is ) is : (B) <i>I</i> tate (D) (B) <i>I</i>	b) $6.02 \times 10^{23}$ (Composed on 3 multiple characteristic of 10	( SECTION aprehension upon the noice quest which ONL es, leaving cipitate (C) w ion is treate o gives a w ite pigmen (C)	C) $1.2 \times 10^{22}$ - B on Type) first paragraphions have to be Y ONE is correct a residue (B) with ammonium of with potassiu hite precipitate t lithopone. CaSO <sub>4</sub>	answered ect. which goe carbona m chroma (E) insolu (D)	ble choice question d. Each of these que es into solution with te solution. The pre- ate to get yellow pre- uble in dilute HCI an $Na_2SO_4$	estio n dilu cipita

# [ 10 ]

Paragraph-2							
	"A" is a white crystalline solid. Its aqueous solution is alkaline in nature. It is used in water softening. One heating it swells up to form a puffy mass, B. strong heating of B gives C.						
58.	The number of mo	oles of water of crystalliza	ation present per a mol	e of the compound. A is			
	(A) 10	(B) 5	(C) 7	(D) 8			
59.	The aqueous solu	tion of A is alkaline due to	)				
	(A) The presence	of $Ca^{+2}ions$	(B) The presence of $H_3BO_3$				
	(C) Hydrolysis of	$B_4 O_7^{-2}$	(D) Hydrolysis of CC	$\int_{3}^{-2}$			
60.	Composition of th	e substance, B is					
	(A) $Na_2B_4O_7$	(B) $B_2O_3$	(C) $H_3BO_3$	(D) <i>HBO</i> <sub>2</sub>			



		PART-II	I : BIOLOGY	
			CTION - A rect Answer Type)	
	section contains <b>30 m</b> hich <b>ONLY ONE</b> is co	ultiple choice question		choices (A), (B), (C) and (D), out
61.	During photosynthe	esis the oxygen in gluc	ose comes from	
	(A) Water		(B) CO <sub>2</sub>	
	(C) Both from wate	er and CO <sub>2</sub>	(D) Oxygen in air	
62.	Dark reaction is tra	ced by		
	(A) X-rays	(B) O <sup>18</sup>	(C) <sup>14</sup> CO <sub>2</sub>	(D) P <sup>32</sup>
63.	Which of the follow	ing enzyme acts efficie	ency at pH two ?	
	(A) Trypsin	(B) Pepsin	(C) Ptyalin	(D) All of the above
64.	Glisson's capsule a	are found in		
	(A) Kidney of frog	(B) Heart of frog	(C) Liver of mamma	ls (D) Cerebellum of rabbit
65.	Vermiform appendi	x is make up of		
	(A) Respiratory tis	sue	(B) Excretory tissue	
	(C) Lymphatic tissu	le	(D) Digestive tissue	
66.	Which of the follow	ing can respire in total	absence of air	
	(A) Amoeba	(B) Bed-Bug	(C) Hydra	(D) Tapeworm
67.	A normal man resp	ires in a minute		
	(A) 10-15 times	(B) 14-18 times	(C) 20-25 times	(D) 25-30 times
68.	Which one of the fo	ollowing is called pacer	naker of the heart	
	(A) SA node	(B) AV node	(C) AV septum	(D) Chordae-tendinae
69.	Rh factor may be re	esponsible for		
	(A) Turner's syndro	ome	(B) AIDS	
	(C) Sickle cell anae	emia	(D) Erythroblastosis	foesalis
70.	Which of the follow	ing is the part of kidney	/	
	(A) Pelvis	(B) lleum	(C) llium	(D) Cystic duct
71.	ADH is put into the	blood by the		
	(A) Hypothalamus	(B) Pituitary gland	(C) Liver	(D) Small intestine
72.	Which of the follow	ing is primarily concern	ned with cell division	
	(A) GA <sub>3</sub>	(B) IAA	(C) NAA	(D) Cytokinnin
73.	Silver nitrate solution	on is used to study		
	(A) Endoplasmic re	eticulum	(B) Golgi apparatus	
	(C) Nucleus		(D) Mitochondria	



[ 12 ]				Sample Paper Class X
74.	Hearing is controlled	d by		
	(A) Temporal lobe	(B) Cerebrum	(C) Hypothalamus	(D) Parietal lobe
75.	FSH is to estrogen	as LH is to		
	(A) Vasopressin	(B) Testosterone	(C) Progestrone	(D) LTH
76.	A method in which r	oots are induced on the	e stem while it is still att	ached to the parent plant is called
	(A) Layering	(B) Cutting	(C) Grafting	(D) Vivipary
77.	Cellular totipotency	was for the first time d	emonstrated by	
	(A) F. C. Steward	(B) p. Maheswari	(C) W. H. Muir	(D) Y. P. S. Basas
78.	Sperms are produce	ed in the		
	(A) Seminiferous tu	bule	(B) Interstital cell	
	(C) Vas deferens		(D) Prostate gland	
79.	In 28 day human ov	arian cycle, ovulation o	occurs on	
	(A) Day 1	(B) Day 10	(C) Day 14	(D) Day 28
80.	What would happer	n if vas efferentia of Ma	n were cut ?	
	(A) Sperms become	e non-nucleate	(B) Semen is withou	ut sperms
	(C) Sperms are nor	n-motile	(D) Spermatogenes	is does not occur
81.	Sneezing, coughing	, vomiting are controlle	ed by	
	(A) Pons	(B) Cerebrum	(C) Medulla oblanga	ta (D) Cerebellum
82.	Which of the followi	ng has no muscular wa	all ?	
	(A) Artery	(B) Arterioles	(C) Capillary	(D) vein
83.	Nutrition in Euglena	is		
	(A) Saprotrophic		(B) Autotrophic	
	(C) Both saprotroph	nic and Holozoic	(D) Both autotrophic	c and saprotrophic
84.	ATP and or NADPH	2 are produced		
	(A) During dark rea	ction		
	(B) During dark rea	ction and are used in li	ght reaction	
	(C) During light read	ction and are used in D	Park reaction	
	(D) During light read	ction		
85.	Which of these plar	t homone is a growth i	nhibitor	
	(A) Ethylene	(B) Auxin	(C) Abscissic acid	(D) Cytokinnin
86.	Water and electroly	te balance is regulated	by	
	(A) Vasopressin	(B) Calcitonnin	(C) Oxytocin	(D) Adrenaline
87.	The chromosome n	umber is haploid is		
	(A) Zygote	(B) Gamete	(C) Embryo	(D) Seed



Sampl	le Paper Class X			[ 13 ]
88.	First successful a	animal clone was		
	(A) Dolly goat	(B) Molly goat	(C) Dolly sheep	(D) Moky sheep
89.	What is the functi		(-),	(-)
001	(A) Prevents mut		(B) Prevents fertilizat	tion
	(C) Prevents zyg			
00			(D) (B) and (C)	
90.	lotal number of h	uclei involved in double fer	tilization is	
	(A) Two	(B) Three	(C) Four	(D) Five
		SECT	ION - B	
		(Assertion-	Reason Type)	
Stater				1 to 100. Each question contains (C) and (D): out of which ONLY
(A)	Statement-1 is tru	ie, Statement-2 is true, Sta	tement-2 is a correct e	explanation for Statement-1.
(B)	Statement-1 is true	e, Statement-2 is true, State	ment-2 is not a correct	explanation for Statement-1
(C)	Statement-1 is true	e, Statement-2 is false.		
(D)	Statement-1 is fals	se, Statement-2 is true		
91.	Statement-1 :	Liver doesn't contain any	enzymes	
	Statement-2 :	Liver helps in digestion by	y emulsifying fats.	
92.	Statement-1 :	Herbivorous animals has	a larger small intestin	e.
	Statement-2 :	Cellulose present in gras		·
93.	Statement-1 :	The wall of left ventricle is	C C	
	Statement-2 :	Right ventricle has to pur	-	thest end of the body.
94.	Statement-1 :	Meninges are the coverin	с с	
05	Statement-2 :	-		ater, Arachnoid and Duramater
95.	Statement-1 : Statement-2 :	The rate of respiration in		
96.	Statement-2 :	Emphysema is a neural of Light reaction takes place		ast
30.	Statement-2 :	•	·	of photosynthesis is to synthesize
		glucose.	chorgy in the process	
97.	Statement - 1 :	Seeded plants are highly	evolved	
	Statement - 2 :	Seeds are found is Gymr	nosperm & Angiosperr	n.
98.	Statement - 1 :	A method of birth control	is rescentry.	
	Statement - 2 :	Failure of testes to desce	ent into the scrotum ca	auses sterility in man.
99.	Statement - 1 :	The blooming of dandelic phototropic movement.	on flower as the sun ris	ses and its closing on sunset is a
	Statement - 2 :	Phototropism is the direc	tional movement of pla	ant parts in respons to light.
100.	Statement - 1 :	Liver is the mixed gland o	of human body	
	Statement - 2 :	Liver doesn't contain any	eneyme yet it helps in	digestion.



[ 14 ]							Sample Paper Class X		
	PA	RT-I	IV : ANAL	ΥТ	ICAL ABI		ТҮ		
			SECTI						
			(Single Correc	ct An	swer Type)				
	This section contains <b>9 multiple</b> choice questions. Each question has 4 choices (A), (B), (C) and (D), out of which <b>ONLY ONE</b> is correct.								
101.	Complete the series	:0,4,	18, 48, ?, 180						
	(A) 56	(B)	100	(C)	120	(D)	135		
102.	Complete the series	: 2, 3,	10, 39, 172, ?						
	(A) 880	(B)	735	(C)	885	(D)	632		
103.	Sarita is at 27 <sup>th</sup> posit	ion fron	n the top in a clas	s of 4	3 students. What	t is he	er rank from the other side?		
	(A) 16 <sup>th</sup>	(B)	17 <sup>th</sup>	(C)	15 <sup>th</sup>	(D)	21 <sup>st</sup>		
Identi		tween	the two numbers	in th	ne first pair and	find t	ne second pair is missing. he missing number in the ationship.		
104.	8 : 28 : : ? : 65								
	(A) 9	(B)	12	(C)	15	(D)	18		
Selec	t the correct alternativ	e from	the given choices	S.					
105.	When the clock sho	ws time	e 20 minutes pas	t 7, th	ne angle betweer	n han	ds of the watch is ?		
	(A) 100°	(B) 9	90°	(C)	80°	(D)	95°		
106.	In a certain code lan the word "PRODUC"	• •		DTEI	N" is coded as R1	ΓΙΝΗΟ	DP, then how will you code		
	(A) RDCUTOP	(B)	RDCTOUP	(C)	RDTCUOP	(D)	RDCTUOP		
	-		the correct alter	nativ	e from the given	choi	ces which should come in		
place	of the question mark ( $7$ ) 7 $144$ $49$ $42$ $?$ $36$ $5$	(?)							
			0.4		100		440		
	(A) 81	(B) (	64	(C)	100	(D)	112		
108.	85 40 ? 9 84 41 25 7 24								
	(A) 11	(B)	13	(C)	15	(D)	17		



Samp	le Paper Class X					[ 15 ]
109.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	(A) 91	(B) 9	(C)	25	(D)	20
			SECTION			
Thio o	action containe 2 nor		(Comprehensio		inla ah	aion quantiana hava ta ha
answe	ered. Each of these c				-	noice questions have to be out of which <b>ONLY ONE</b> is
correct Parao	st. <b>jraph-1</b>					
, aray	Doppler's butterfly is Cambodia, and in are and Peru. It is very r	eas of non-fo are in Brazil, oloured orar	rested South Am where it has bla ige. In Chile the	nerican countries ack, elongated w	, inclue vings, v	iland, Japan, Malaysia and ding Brazil, Argentina, Chile whilst in Asia the wings are s, though these retain the
110.	In which country is th	ne butterfly u	nlikely to have e	longated wings?	)	
	(A) Mexico	(B) Chile	(C)	Argentina		
	(D) India					
111.	Where is a forest-dv	velling Doppl	er butterfly with	orange wings m	ost like	ely to be found?
	(A) Chile	(B) Germ	any (C)	Thailand		
	(D) cannot say					
112.	Where is a purple D	oppler butter	fly most likely to	be found?		
	(A) France	(B) India	(C)	Japan		
	(D) cannot say					
Parag	Jraph-2					
	Chance have a white	e stripe on th and Mr Marx	e sides of their of their of their of their of the silver strips	cars. Miss Jenkir es on the sides c	ns has	nes. Mr Bagshaw and Mrs a blue stripe on the side of cars. Miss Jenkins' and Mr
113.	Who has a car with I	blue upholste	ery and a silver s	stripe?		
	(A) Mr Bagshaw	(B) Miss	lenkins (C)	Mrs Chance	(D)	Mr Fleming
114.	Who has a car with a	a silver stripe	e and white upho	olstery?		
	(A) Mr Bagshaw	(B) Miss	Jenkins (C)	Mrs Chance		
	(D) Mr Marx					
115.	Who has got the red	l car with a b	lue stripe and m	atching upholste	ery?	
	(A) Mr Bagshaw	(B) Miss	lenkins (C)	Mrs Chance	(D)	Mr Fleming

