INSTRUCTIONS:- Time:- 2 Hours

Student has to attempt Physics & Chemistry Compulsory.

FROM MATHEMATICS & BIOLOGY ATTEMPT ONLY ONE SUBJECT.

MARKING SCHEME OF SUBJECT PHYSICS, CHEMISTRY & MATHEMATICS

SECTION	NO. OF QUESTIONS & TOTAL MARKS	QUESTION TYPE	MARKING SCHEME
A	3 Questions of 12 marks	Comprehension based MCQ with one Correct option	 +4 if the correct option is chosen 0 if none of the option is chosen -1 in all other cases
В	4 Questions of 16 marks	MCQ with one Correct option	 +4 if the correct option is chosen 0 if none of the option is chosen -1 in all other cases
С	8 Questions of 32 marks	Integer type	 +4 if the correct option is chosen 0 if none of the option is chosen -1 in all other cases
D	5 Questions of 20 marks	MCQ with one or more than one Correct option	 +4 ONLY if (all) the correct option(s) is(are) chosen +3 If all four options are correct but ONLY three options are chosen +2 If three or more options are correct but ONLY two options are chosen, both of which are correct +1 If two or more options are correct but ONLY one option is chosen and it is a correct option

CAREER ACADEMY TALENT SEARCH EXAM(CATSE-2024) LEVEL-02

chosen (i.e. the question unanswered) • -1 In all other cases	is
-1 In all other cases	

MARKING SCHEME OF SUBJECT BIOLOGY

SECTION	NO. OF QUESTIONS & TOTAL MARKS	QUESTION TYPE	MARKING SCHEME
А	20 Questions of 40 marks	MCQ with one Correct option	 +2 if the correct option is chosen 0 if none of the option is chosen - 0.5 in all other cases
В	10 Questions of 20 marks	FILL UPS	 +2 if the correct option is chosen 0 if none of the option is chosen - 0.5 in all other cases
С	10 Questions of 20 marks	MCQ with one Correct option	 +2 if the correct option is chosen 0 if none of the option is chosen - 0.5 in all other cases

CLASS-10th

PHYSICS

SECTION -A

Read the following passage and answer three questions from 1. to 3.

The lenses forms different types of images when object placed at different locations. When a ray is incident parallel to the principal axis, then after refraction, it passes through the focus or appears to come from the focus. When a ray goes through the optical centre of the lens, it passes without any deviation. If the object is placed between focus and optical center of the convex lens, erect and magnified image is formed.

As the object is brought closer to the convex lens from infinity to focus, the image moves away from the convex lens from focus to infinity. Also the size of image goes on increasing and the image is always real and inverted. A concave lens always gives a virtual, erect and diminished image irrespective to the position of the object.

- 1. The location of image formed by a convex lens when the object is placed at infinity is
 - (a) at focus
- (b) at 2F
- (c) at optical center
- (d) between F and 2F

ANS. (a)

- 2. The size of image formed by a convex lens when the object is placed at the focus of convex lens is
 - (a) small
- (b) point in size
- (c) highly magnified
- (d) same as that of object

ANS. (c)

- 3. When the object is placed at 2F in front of convex lens, the location of image is
 - (a) at F

(b) at 2 F on the other side

(c) at infinity

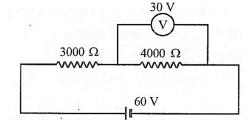
(d) between F and optical center

ANS. (b)

SECTION-B

- 4. In the circuit fig, the voltmeter reads 30 V. What is the resistance of the voltmeter
 - (a) 1200 Ω
 - (b) 700 Ω
 - (c) 400Ω
 - (d) 300Ω

ANS. (a)



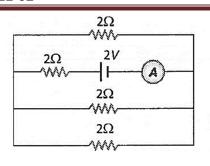
5. The reading of the ammeter as per figure shown is

(a)	$\frac{1}{8}A$





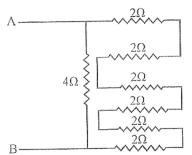




ANS. (b)

6. What is the equivalent resistance between A and B

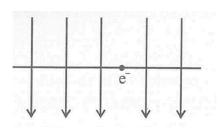
- (a) 16 Ω
- (b) 1 Ω
- (c) 7Ω
- (d) 3Ω
- ANS. (d)



7. A uniform magnetic field pointing top to bottom in a plane of paper. When an electron is allowed to move perpendicular to it, it gets deflected outwards. The electron must be moving along:

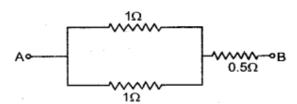
- (a) Left to Right
- (b) Right to left
- (c) It is stationary
- (d) It can't deflect outward





SECTION -C

8. Equivalent resistance between points A and B of the following circuit is 1Ω

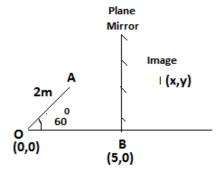


9. Powers of two electric bulbs are 100 W and 200 W. Both are connected from mains of 220 V. The ratio of resistance of their filaments will be **2**: **1** .

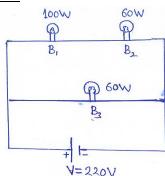
10. The refractive index of diamond is 2.42 and that of carbon disulphide is 1.63. The refractive index of diamond with respect to carbon disulphide is 1.48.

11. A convex mirror used on a automobile has 3 m radius of curvature. If a bus is located 5 m from this mirror, The position of image will be _____ 1. 15 m ____ from the convex mirror.

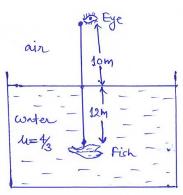
12. Point object is moved from 0 to A. The image is formed at I. The co-ordinates of I are $9, \sqrt{3}$



13. The bulb that consumes more power is B_3



14. The apparent distance of fish from eye is ______ If refractive index of water is $\frac{4}{3}$ and of air is 1.



15. The equivalent resistance between X and Y is

 $\frac{8R}{3}$

SECTION - D

- **16.** In which of the following kinetic energy is converted into electrical energy?
 - (a) Tidal energy
- (b) Hydro energy
- (c) Wind energy
- (d) None of these.

- ANS. (a), (b), (c)
- **17.** Choose the incorrect statements. Two magnetic field lines:
 - (a) Intersect at neutral point

- (b) Never intersect each other
- (c) Intersect near north-pole or south pole
- (d) Intersect at the midpoint of the magnet

- ANS. (b)
- **18.** Devices changing electrical energy into mechanical energy are
 - (a) electric generator (b) electric motor
- (c) voltmeter
- (d) ammeter.

- ANS. (b)
- **19.** Non-conventional sources of energy are
 - (a) Inexhaustible
- (b) Pollution free
- (c)Too expensive
- (d) Less expensive

- ANS. (a), (b), (d)
- **20.** When electric current is passed, electrons move from:
 - (a) high potential to low potential.
- (b) low potential to high potential.
- (c) in the direction of the current.
- (d) against the direction of the current.

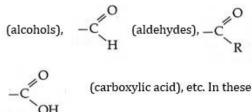
ANS. (b), (d)

CHEMISTRY

SECTION-A

Read the following passage and answer questions 1 – 3

One of the most important raw material in the world is crude oil. It contains mixture of hydrocarbons. The hydrocarbons in crude oil are not only vital fuels, they are also used as starting materials for many new products such as plastics. Alkanes are main components of crude oils. The alkanes are the simplest saturated organic compounds having the general formula C_nH _{2n+2}. Saturated hydrocarbons are quite unreactive. The reactivity is increased by the presence of double or triple bonds or a functional group are - OH



the functional group is the reactive part of the compounds. These compounds are named by their common names or IUPAC names

- 1. Which of the following sets contain all unsaturated compounds?

 - (a) C_2H_4 , C_3H_8 , C_3H_4 (b) C_4H_{10} , C_3H_6 , C_2H_2 (c) C_4H_8 , C_3H_4 , C_2H_2 (d) C_2H_6 , C_3H_6 , C_4H_6

ANS. (c)

- 2. Butanone is a ketone. The number of sigma bonds in it are.
 - (a) 10
- (b)13
- (c) 12
- (d) 11

ANS. (c)

- 3. Isomers are the compounds having same molecular formula but different structures. The number of isomers possible for C₅H₁₂ are
 - (a) 2
- (b) 3
- (c) 4
- (d)5

ANS. (b)

SECTION - B

4. Match the salts with their common names

	Hydrated salt		Common name
A.	MgSO ₄ · 7H ₂ O	(i)	Gypsum
B.	$CuSO_4 \cdot 5H_2 O$	(ii)	Green vitriol
C.	FeSO ₄ · 7H ₂ O	(iii)	Blue vitriol
D.	CaSO₄ · 2H ₂ O	(iv)	Epsum

	(a) A-iv, B-iii, C-ii, D-i	(b) A-iv, B-ii, C-i, D-iii	(c) A-iv, B-ii, C-iii, D-i	(d) A-iv, B-i, C-iii, D-ii				
ANS.	(a)							
5.	Silver articles become dark on prolonged exposure to air. This is due to the formation of							
	(a) Ag₃N	(b) Ag ₂ O	(c) Ag ₂ S	(d) Ag ₂ S and Ag ₃ N				
ANS.	(c)							
6.	In the soap micelles							
	(a) The ionic end of so cluster	ap is on the surface of t	he cluster while the car	bon chain is in the interior of the				
	(b) ionic end of soap is	s in the interior of the c	luster and the carbon ch	nain is out of the cluster.				
	(c) both ionic end and	carbon chain are in the	e interior of the cluster.					
	(d) both ionic end and	carbon chain are on th	e exterior of the cluster					
ANS.	(a)							
7.	Which of the following	have equal number of	electrons?					
	(a) CI^- and Br^-	(b) Na+ and Mg ²⁺	(c) Ar and Ne	(d) Mg ²⁺ and Ca ²⁺				
ANS.	(b)							
		SEC	CTION-C					
8.	_OXIDATION is a p	rocess in which there is	s loss of electrons					
9.	The gas produced on a	iddition of dilute sulphi	uric acid on powdered z	inc is $\underline{\hspace{1.5cm} extbf{\textit{H}}_2}$.				
10.	The chemical formula	of plaster of Paris is	$CaSO_4. 1/2H_2O$					
11.	pH of 10 ⁻⁶ N KOH solut	tion is 8						
12.	The phenomenon of producing a characteristic sound when a material is struck on the metallic surface is SONARITY .							
13.	The formula of ethano	ic acid is <i>CH</i> ₃ <i>CooH</i>	_·					
14.	The general formula fo	or alkynes is $C_n H_{2n-}$	<u>2</u> ·					
15.	How many periods inc	lude the elements of at	omic numbers 1 to 18 i	n the periodic table 3				

SECTION-D

16.	Which of the following is a physical change?						
	(a) Boiling of water to give v	vater vapour	(b) Melting of ice to give water(d) Combustion of Liquefied Petroleum Gas (LPG)				
	(c) Dissolution of salt in wat	er					
ANS.	(a),(b),(c)						
17.	Common salt besides being	be used as the	e raw material for	making			
	(a) washing soda	(b) Bleaching powder	(c) E	Baking soda	(d) Slaked lime		
ANS.	(a), (b)						
18.	Which of the following prop	erty is generally shown	by metals				
	(a) Electrical conduction	(b) Sonorous in natur	re (c) [Oullness	(d) Ductility		
ANS.	(a), (b), (d)						
19.	Which of the following state	ments are usually corre	ct for carbon c	compounds? These	e		
	(a) are goods conductors of	electricity					
	(b) are poor conductors of e	lectricity					
	(c) have strong forces of attr	action between their m	olecules.				
	(d) do not have strong force:	s of attraction between t	heir molecule	es .			
ANS.	(b),(d)						
20.	Which of the following state	ments (s) about the Mod	lern Periodic	Table are incorred	ct		
	(a) The elements in the Mod number	ern Periodic table are ar	ranged on the	e basis of their dec	creasing atomic		
	(b) The elements in the Mod masses	ern Periodic Table are a	rranged on th	e basis of their in	creasing atomic		
	(c) Isotopes are placed in ad	joining group (s) in the	Periodic table				
	(d) The elements in the Mod number	ern Periodic Table are a	rranged on th	e basis of their in	creasing atomic		
ANS.	(a),(b),(c)						
		MATHE	MATICS	<u>S</u>			

SECTION-A

CAREER ACADEMY, NAHAN

Given two Arithmetic progression series

An A.P, S is formed by taking the common terms of S_1 and S_2 for the resulting A.P, S

1. Common difference is

(a) 3

(b) 4

(c) 6

(d) 12

ANS. (d)

2. Number of terms common to two AP's is

(a) 6

(b) 7

(c) 8

(d) 9

ANS. (c)

3. Third term of series S is

(a) 26

(b) 38

(c) 50

(d) 62

ANS. (b)

SECTION - B

Two circles, both of radius R touch each other and each of them touches internally a circle of radius 2R. 4. Then the radius of the circle which touches at the three circle is

(a) $\frac{R}{2}$

(b) $\frac{2R}{2}$

(c) $\frac{3R}{4}$

(d) R

ANS. (b)

If α and β are the roots of the quadratic equation $2x^2 - 5x - 6 = 0$ and $a_{n+1} = \alpha^n - \beta^n$, then the value 5. of $\frac{a_9 - 3a_7}{4a_8}$ is

(a) $\frac{3}{8}$

(b) $\frac{5}{8}$

(c) $\frac{7}{8}$ (d) $\frac{9}{8}$

ANS.

A box contains four cards numbered as 1, 2, 3, 4 and another box contains four cards numbered as 1, 6. 4, 9 and 16. One cards is drawn at random from each box. What is the probability of getting the product of two numbers so obtained, more than 16.

(a) $\frac{5}{6}$

(b) $\frac{1}{2}$

(c) $\frac{3}{8}$

(d) $\frac{1}{4}$

ANS. (c)

If $S = 2^{2024} + 3^{2024} + 7^{2024} + 8^{2024}$ then last digit of S is 7.

(a) 2

(b) 4

(c) 6

(d) 9

ANS. (b)

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SECTION-C

8. In a certain year there were exactly four friday & exactly four monday in January. On what day of the week did the 20th of January that year

ANS. (SUNDAY)

9. Write the value of p for which the pair of linear equations in two variables have infinitely many solutions px + 3y - (p - 3) = 0, 12x + py - p = 0

ANS. (6)

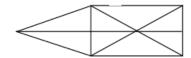
Ravi tore out several successive pages from a book. The number of the first page be tore out was 183, 10. and it is known that the number of the last is written with the same digits in some order. How many pages did Ravi tear out of the book.

ANS. (68)

11. The ages of the members of the club are in A.P with common difference 3 months. The sum of ages of all the members is 300 years and the youngest member is a child of age 9 years. Then the write age of eldest member in years

ANS. (15)

12. How many triangles are there in the following diagram?



ANS. (17)

13. The mean of first ten odd natural numbers is k, then write the values of k

ANS. (10)

14. Volume of two sphere are in the ratio 64:27. The ratio of their surface area is a: b then write the minimum value of a + b if a and b are natural numbers

ANS. (25)

When a polynomial P(x) is divided by x-1, the remainder is 3. When P(x) is divided by (x-3), the 15. remainder is 5. If r(x) is the remainder when P(x) is divided by (x-1)(x-3) then write the value of r(-2)

ANS. (0)

SECTION-D

If $\frac{1-\cos\theta}{\sin\theta} = \frac{1}{5}$, $0^o \le \theta \le 90^o$ then which of the following is/ are may be possible 16.

(a) $tan\theta = 0$ (b) $tan\theta = \frac{5}{12}$ (c) $cos\theta = \frac{5}{13}$ (d) $cos\theta = \frac{12}{13}$

ANS. (a),(b),(d) CLASS-10th LEVEL-02 If a + b + c = 2 and $a^2 + b^2 + c^2 = 4$ then which **17**. of the following is/ are correct (a) maximum value of ab + bc + ca is 2 (b) maximum value of ab + bc + ca is 4 (c) minimum value of ab + bc + ca is -2(d) minimum value of ab + bc + ca is -1ANS. (b),(c) 18. If a, 7, b, 23, c are in A.P then which of the following is/ are correct (b) b = 15(c) c = 31(a) a = 2(d) c = 30ANS. (b),(c) 19. A number is selected from the numbers from 11 to 60 (a) Probability of selecting a prime number is $\frac{13}{50}$ (b) Probability of selecting a square number is $\frac{3}{25}$ (c) Probability of selecting a multiple of 3 is $\frac{6}{25}$ (d) Probability of selecting a multiple of 7 is $\frac{7}{50}$ ANS. (a),(d) 20. Given the system of equations mx + 2y = 10; 3x - 2y = 0 have the integer solution. The which of the following options is correct (a) sum of all possible values of m is -6 (b) sum of all possible values of m is 6 (c) produce of all possible values of m is 16 (d) produce of all possible values of m is -16 ANS. (a),(d) **BIOLOGY** SECTION - A 1. If 20 Jule of energy is trapped at producer level, then how much energy will be available to peacock, as food in the following chain $Plant \rightarrow Mice \rightarrow Snake \rightarrow Peacock$ (a) 0.02 Jule (c) 0.2 Jule (b) 0.002 Jule (d) 0.0002 Jule. ANS. (a) 2. The minamata disease in Japan was caused through the pollution of water by (a) CN (c) DDT (d) BHC. (b) Hg

ANS.

(b)

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CLASS	-10 th	l	EVEL-02	
3.	World ozone da	y is celebrated on		
	(a) 5 th June	(b) 21st June	(c) 24 March	(d) 16 th September
ANS.	(d)			
4.	Which one of the total global war		ercentage of the two greenhou	use gases that contribute to the
	(a) N ₂ O 6%, CO ₂	86%	(b) Methane 20%, N ₂ O 189	%
	(c) CFCs 14%, N	Methane 20%	(d) CO ₂ 40%, CFCs 30%.	
ANS.	(c)			
5.	Which one of the	e following are analogous s	tructure	
	(a) Wings of bat	s and wings of pigeon	(b) Gills of prawn and lung	gs of man
	(c) Flippers of d	olphin and legs of horse	(d) All of above.	
ANS.	(a)			
6.	How many game	etes participate in double fe	ertilisation	
	(a) 2	(b) 4	(c) 3	(d) 5
ANS.	(c)			
7.	A child's blood	group is 'O'. The parent's Bl	ood Group cannot be –	
	(a) A and B	(b) A and A	(c) AB and O	(d) B and O.
ANS.	(c)			
8.	Apical dominan	ce means		
	(a) Suppression	of growth of apical BUD du	e to presence of axillary BUD	
	(b) Suppression	of growth of axillary BUD	due to presence of apical BUD	
	(c) Stimulation (of apical BUD growth by rer	moval of axillary BUD	
	(d) Inhibition of	growth of axillary BUD by	removal of apical BUD.	
ANS.	(b)			
9.	Which of the fol	lowing is not a part of fema	le reproductive system in hu	man being
	(a) Ovary	(b) Fallopian tubule	(c) Vas difference	(d) Fallopian tube.
ANS.	(c)			

10.	Time for cardiac cycle is									
	(a) 8 second	(b) 0.8 second	(c) 0.08 minute	(d) 008 second.						
ANS.	(b)									
11.	In anaerobic respiration pyruvic acid in muscle form									
	(a) Lactic acid	(b) Alcohol	(c) Glucose	(d) None of these.						
ANS.	(a)									
12.	Enucleated cell is									
	(a) RBC	(b) WBC	(c) Companion cell	(d) Neuron.						
ANS.	(a)									
13.	Which of the following	ng is a plant hormone								
	(a) Insulin	(b) Thyroxine	(c) Oestragon	(d) Cytokinin.						
ANS.	(d)									
14.	Which of the sequence	ce represent a reflex action								
	(a) Sensory neuron –	→ Brain → Motor Neuron → Effe	ector							
	(b) Sensory neuron –	→ Spinal cord → Motor Neuron	→ Effector							
	(c) Motor Neuron → S	Spinal cord → Sensory neuron	→Effector							
	(d) Effector → Motor	Neuron → Spinal cord → Senso	ory neuron.							
ANS.	(b)									
15.	Which is a heterocrin	ne gland								
	(a) Testis	(b) Ovary	(c) Pancreas	(d) All of these.						
ANS.	(d)									
16.	Select the mismatche	d pair.								
	(a) Adrenalin	Adrenal cortex								
	(b) Testosteron	– Testis								
	(c) Estrogen	– Ovarv								

	(d) Adrenalin	_	Adrenal medulla	l.	
ANS.	(a)				
17.	If a heterozygous ta progeny will be	II plant is	crossed with a ho	mozygous dwarf plant, th	e proportion of dwarf
	(a) 50%	(b) 75	%	(c) 100%	(d) 25%.
ANS.	(a)				
18.	Which set include a	II homolo	gous organ		
	(a) Hind legs of Dog	, Duck & k	Kangaroo	(b) Wings of Bats, I	Butterflies and bird
	(c) Tail of Rat, Peaco	ock, Earth	worm	(d) Wing of Bat & F	lipper of whale.
ANS.	(a)				
19.	Which part of the he	eart receiv	ved deoxygenated	blood	
	(a) Right atrium	(b) Ri	ght ventricle	(c) Left atrium	(d) Left ventricle.
ANS.	(a)				
20.	Carpus callosum is p	oresent in			
	(a) Medulla oblonga	ıta (b) l	Pons	(c) Cerebrum	(d) Cerebellum.
ANS.	(c)				
			SECT	ION – B	
21.	In photosynthesis, $\underline{H_2O}$.	<u>LIGHT</u>	energy is changed	l into <u>CHEMICAL</u> ener	gy by utilizing CO 2and
22.	Human heart is4	Lchaml	pered. It has u	ipper <u>ATRIUM</u> and lo	wer <u>VENTRICLE</u> .
23.	_ G.J.MENDAL pe	erformed	his experiment on	pea plant. He choosed	7 pair of character in pea
24.	_PLFURA_ is cover	ring of lur	ngs and <u>PERICAI</u>	RDIUM_ is the covering	of heart.
25.	Central nervous sys	tem inclu	des <u>BRAIN</u> an	d <u>SPINAL CORD</u> .	
26.	_SYNAPSE_ is the g conduction in nerve	•	en two neuron and	d neurotransmitter <u>ACE</u>	TYLCHOLINE help in
27.	_ STOMATA _ in pla	ant help i	n transpiration, w	hich help in <u>COOLING</u> t	he temperature.

28.	In human, blood consists of FORMED ELEMENT and PLASMA .								
29.	The oncet of menstrual cycle in female is called as <u>MENARCHE</u> and cease of menstrual is <u>MENOPAUSE</u> .								
30.	An ecosystem has <u>ABIOTIC</u> and <u>BIOTIC</u> component. <u>PRODUCER</u> , <u>CONSUMER</u> and <u>DECOMPOSER</u> are biotic component.								
31.	Find out a true st		SECTION – C						
J 1.	Find out a true statement from following (i) Only 10% energy is transferred to next tropic level								
	-		·						
	-	fer is multi direction in ec	osystem						
	(iii) Pyramid of e	0,0	(a) 0	(4): ;; 0 ;;;					
	(a) i & ii	(b) i & iii	(c) ii & iii	(d) i, ii & iii					
ANS.	(b)								
32.		e fertilisation which is tru	I e						
		ure of flowering plants							
	(ii) It involve syn	(ii) It involve syngamy and triple fusion							
	(iii) It involve tot	al 2 gametes							
	(iv) It form zygot	e and endosperm.							
	(a) (i), (ii)	(b) (ii), (iii)	(c) (i), (iv)	(d) (i), (ii), (iv).					
ANS.	(d)								
33.	In case of inherit	ance of 2 gene, we obtain	ed following resoltin F_2 (generation					
	(i) phenotypic ra	tio – 9 : 3 : 3 : 1							
	(ii) Genotypic rat	io – 1 : 2 : 1, 2 : 4 : 2 : 1 : 2	2:1						
	(iii) Phenotype n	umber – 4.							
	(a) (i), (ii)	(b) (i), (ii), (iii)	(c) (i), (iii)	(d) None of these.					
ANS.	(b)								
34.	After fertilisation	n in plants, what changes	occur in flower. Find wr	ong statement					
	(i) Ovary change	into seed							
	(ii) Ovule change	d into fruit							
	(iii) Integument								

	(iv) Zygote form endosperm.								
	(a) (i), (ii)	(b) (i)	, (ii), (iii)	(c) (i), (iii), (iv)	(d) All of these				
ANS.	(d)								
35.	Regarding contracept	ion how	many statemer	nt are true					
	(i) Surgical removal o	f vas dif	ferentia is tubed	ctomy					
	(ii) Surgical removal o	of vas di	fferentia is vase	ctomy					
	(iii) Surgical removal	(iii) Surgical removal of fallopian tube is tubectomy							
	(iv) Surgical removal of fallopian tube is vasectomy								
	(v) Removal of testis i (a) iv	s tubect (b) ii	tomy.	(c) iii	(d) None of these.				
ANS.	(b)								
36.	Which of the following	g are tru	uly match with t	heir hormone and sour	ce				
	(1) Progestron	-	Carpusluteum						
	(2) Relaxin	-	Ovary						
	(3) Growth hormone	-	Pituitary						
	(4) Calcitonin	-	Thyroid.						
	(a) 1, 2	(b) 1, 3	3	(c) 1, 4	(d) 1, 2, 3, 4.				
ANS.	(d)								
37 .	Which of the following Auxin, Gibberallin, Cy								
	(a) Auxin, Gibbrellin, I	Ethylene	е	(b) Ethylene, Abscissicacid					
	(c) Auxin, Gibberallin,	Cytokir	nin	(d) Auxin, Ethylene.					
ANS.	(c)								
38.	How many statement	regardi	ng pituitary glar	nd are true					
	(i) It is smallest endo	crine gla	and						
	(ii) It is master endocr	rine glar	nd						
	(iii) It secretes hormo	ne FSH,	LH, GH, PRL, A	DH					
	(iv) Defficiency of GH	result ir	n acromegaly.						
	(a) (i), (ii)	(b) (i)	, (iii), (iv)	(c) (i), (ii), (iii), (iv)	(d) (i), (ii), (iii).				

ANS. (d)

- **39.** Find any wrong statement related with photosynthesis
 - (i) Chemical energy is changed into light energy
 - (ii) Light reaction occur in grana of chloroplast
 - (iii) Light reaction occurin stroma of chloroplast
 - (iv) Chlorophyll occur in stroma of chloroplast
 - (v) Dark reaction occur only in dark.
 - (a) (i), (iv), (v)
- (b) (i), (iv), (ii)
- (c) (i), (ii), (iii)
- (d) (i), (ii), (iv), (v)

ANS. (a)

- **40.** Regarding blood, how many statement are true
 - (i) Blood is formed in liver
 - (ii) WBC are 2 type means granulocyte and agranulocyte
 - (iii) Platelets also called as thrombocyte
 - (iv) Granulocyte include monocyte and lymphocyte.
 - (a) (i), (ii), (iii)
- (b) (i), (iv), (iii)
- (c) (ii), (iii)
- (d) (i), (ii), (iii), (iv)

ANS. (c)