

43957

[Q. Booklet Number]

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ANSWERS & HINTS

for

WBJEE - 2011

by Aakash Institute & Aakash IIT-JEE

MULTIPLE CHOICE QUESTIONS

SUB: BIOLOGY

1.	Glucose and amino acid						
	(A) proximal tubule	(B)	distal tubule	(C)	collecting duct	(D)	loop of Henle
	Ans: (A)						
	Hints: Glucose and am	ino acids	are reabsorbed in	n the proximal tu	bule of nephron.		
2.	The amount of CSF in th	e cranial	cavity				
	(A) 500 ml	(B)	140 ml	(C)	1 litre	(D)	1.5 ml
	Ans: (B)						
	Hints: The amount of CS	SF in the c	ranial cavity is 1	40 ml.			
3.	Which one is imino acid	?					
	(A) Pepsin	(B)	Proline	(C)	Cysteine	(D)	Renin
	Ans: (B)						
	Hints: Proline and hydro						
4.	The main difference bety	veen Grai	-	ram negative bac	teria is		
	(A) Cell membrane	(B)	Cell wall	(C)	Ribosome	(D)	Mitochondria
	Ans: (B)						
5.	ACTH is secreted from						
	(A) Adrenal cortex	(B)	Pituitary	(C)	Adrenal Medulla	(D)	Thyroid
	Ans: (B)						
	Hints : ACTH is secreted		1				
6.	Which of the following is	s the corre	ect pathway for p	propagation of ca	rdiac impulse?		
	(A) $SA \text{ node} \rightarrow AV \text{ no}$						
	(B) AV node \rightarrow Bundl						
	(C) $SA \text{ node} \rightarrow Purkir$						
	(D) Purkinje fibers \rightarrow	AV node	\rightarrow SA node \rightarrow I	Bundle of His			
	Ans: (A)						
	Hints : Cardiac impulse i					ndle of H	is \rightarrow Purkinje fibres.
7.	Inner surface of the brone		•		•		
	(A) cubical epithelium	(B)	columnar epithe	elium (C)	squamous epithelium	n (D)	ciliated epithelium
	Ans: (D)						
	Hints: Ciliated epitheliu	m is foun	d in inner surface	e of bronchi, bron	nchioles and fallopian	tubes	

WBJ	EE - 2011 (Answers & Hints)					Biology
8.	Electric potential of the brai	n is re	ecorded by				
	(A) CT Scan	(B)	Sphygmomanometer	(C)	ECG	(D)	EEG
	Ans: (D)						
	Hints: Electrical potential o						
9.	Which of the following is rela						
	(A) T-lymphocyte	(B)	B-lymphocyte	(C)	I-lymphocyte	(D)	P-lymphocyte
	Ans: (B)		. 5.1				
10	Hints : Humoral immunity i	s due	to B-lymphocyte because if	secre	tes antibody in the blood	plasma	1.
10.	Fertilization occur in	(D)	I I t	(0)	T 7:	(D)	T-11
	(A) Uterus	(B)	Ureter	(C)	Vagina	(D)	Fallopian tube
	Ans: (D) Hints: Fertilization occurs i	n folk	onion tubo at the junction of	Commi	lle and isthmus		
11.	The Gastrin is secreted from	II Iaii(opian tube at the junction of	ampu	na and isumus.		
11.	(A) Intestine	(B)	Stomach	(C)	Pancreas	(D)	Rectum
	Ans: (B)	(D)	Stomach	(C)	1 ancreas	(D)	Rectuiii
	Hints: Gastrin hormone is se	ecrete	d from "G-cells" of stomacl	1			
12.	The cause of cretinism is	001010	a from G comb of stormaci				
	(A) Hypothyroidism	(B)	Hypoparathyroidism	(C)	Hyperthyroidism	(D)	Hyperparathyroidism
	Ans: (A)	()	JT · T · · · · · J	(-)	JP -	()	J1 · 1 · · · · J · · · ·
	Hints: Cretinism is caused by	y hyr	osecretion of thyroxine in	childre	en.		
13.	Which of the following is a n						
	(A) Testosterone	(B)	Progesterone	(C)	Adrenalin	(D)	Aldosterone
	Ans:(D)						
	Hints: Aldosterone is secret	ed fro	m adrenal cortex and control	ols RA	AS. mechanism.		
14.	The part of the brain where t	the ce	ntre for hunger and thirst is	locate	ed is		
	(A) Cerebrum	(B)	Hypothalamus	(C)	Cerebellum	(D)	Medulla Oblongata
	Ans: (B)						
	Hints : Hypothalamus is the		_				
15.	The reflex arc, which is made		vo neurones is known as				
	(A) Monosynaptic reflex an			(B)	Disynaptic reflex arc		
	(C) Polysynaptic refles arc			(D)	Asynaptic reflex arc		
	Ans: (A)	1.		1 4	1.1.6	: (ONIC
1.0	Hints: Monosynaptic reflex			1 moto	or, which forms one synap	se in C	CNS.
16.	The lactase hydrolyzes lacto			(0)	Emotoso	(D)	Classes and fractions
	(A) Glucose Ans: (B)	(B)	Glucose and galactose	(C)	Fructose	(D)	Glucose and fructose
	Hints: Lactose → Glucose	+ Gale	actose				
17.	In 24 hours, total glomerular			c			
17.	(A) 1.7 litres	mina	e formed in numan kidney i	(B)	7 litres		
	(C) 17 litres			(D)	170 litres		
	Ans: (D)			(D)	17011105		
	Hints: GFR is 120 ml/min, s	o, app	rox. 170 litre ultra fitrate is	oroduc	eed in 24 hrs.		
18.	When the oxygen supply to						
	(A) Dyspnea		• ,	(B)	Hypoxia		
	(C) Asphyxia			(D)	Apnea		
	Ans: (B)						
	Hints: Inadequate supply of	of oxy	gen to the tissue is called h	ypoxia	ı		
19.	Which one of the following	is not	t a second messenger in ho	rmone	action?		
	(A) Calcium	(B)	Sodium	(C)	cAMP	(D)	cGMP
	Ans: (B)						

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	Hints: Sodium is not a sec	ondarv	messenger in hormone a	action.				
20.	The name of the pace make	-	_					
	(A) Lymph node		S.A. node	(C)	Juxtaglumerular appara	tus(D)	Semilunar valve	
	Ans: (B)	()		(-)		()		
	Hints: Pace maker of heart	is SA 1	node.					
21.	What is a genophore?							
	(A) DNA in prokaryotes			(B)	DNA and RNA in prok	arvotes	3	
	(C) DNA and protein in p	orokary	rotes	(D)	RNA in prokaryotes	J		
	Ans: (B)	, ,		(-)				
	Hints: Genophore = DNA -	+ RNA						
22.	Example of a typical homor		charide is					
	(A) Ligin	(B)	Suberin	(C)	Inulin	(D)	Starch	
	Ans:(C)	(2)	5 4 6 4 1 111	(0)		(2)		
	Hints: Inulin is typical ho	monoly	vsaccharide and is a poly	mer of fru	ictose.			
23.	Who wrote the famous boo							
	(A) Lamarck	(B)	Darwin	(C)	De Vries	(D)	Mendel	
	Ans: (B)	(2)	Darvin	(0)	De viies	(D)	TVIOITGOT	
	Hints: The book 'Origin of	specie	s' was written by Darwin	1				
24.	Polyploid derived from two	-	•					
	(A) Autopolyploid	(B)	Triploid	(C)	Allopolyploid	(D)	Monoploid	
	Ans:(C)	(2)	Tipiota	(0)	Thiopotypiola	(D)	Monopioia	
25.	Electrons used in Electron	Micros	scope are of the wavelen	oth				
20.	(A) 0.05 Å	(B)	0.15 Å	(C)	0.25 Å	(D)	0.30 Å	
	Ans: (A)		0.1011	(0)	0.2011	(D)	0.5011	
26.	Biolistic technique is used	in						
_0.	(A) Tissue culture proce			(B)	Gene transfer process			
	(C) Hybridization proces			(D)	Germplasm conservation	on proc	ess	
	Ans: (B)			(2)	our productive construction) II pro •	•55	
	Hints: Biolistic technique	is a dir	ect method of gene trans	fer				
27.	Example of water soluble pl							
	(A) Chlorophyll-a	(B)	Chlorophyll-b	(C)	Anthocyanin	(D)	Xanthophyll	
	Ans: (C)		emorophyn o	(0)		(2)	120110110711711	
	Hints: Anthocyanin is a wa	ater sol	uble pigment					
28.	Structural element of Chron		word brightness.					
	(A) Histone	(B)	Acid protein and DNA	(C)	Nuclear matrix	(D)	Nucleosomes	
	Ans: (D)	(-)	F	(-)		(-)		
	Hints: The structural elem	ent of c	hromatin is Nucleosome	S.				
29.	Inulin is a polymer of							
	(A) Glucose	(B)	Galactose	(C)	Fructose	(D)	Arabinose	
	Ans:(C)	()		()		()		
30.	Mannitol is							
	(A) Amino Acid	(B)	Amino alcohol	(C)	Sugar alcohol	(D)	Sugar acid	
	Ans:(C)	()		(-)		()		
31.	A flower which can be divi	ided int	to two equal halves by or	nly one pl	ane is			
-	(A) Zygomorphic	(B)	Actinomorphic	(C)	Regular	(D)	Perfect	
	Ans: (A)	()	r	(-)	-8	()		
32.	Pieces of plant tissue used	in tissi	ue culture is called					
-	(A) Explant	(B)	Somaclone	(C)	Inoculant	(D)	Clone	
	Ans: (A)	\ /				\ /		
	\ /							

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33.	VAM is						
	(A) Symbiotic bacteria	(B)	Saprophytic bacteria	(C)	Saprophytic fungi	(D)	Symbiotic fungi
	Ans:(D)	` ´					
	Hints: VAM (Endomycorn	hizae)	represent symbiotic associ	ation	between fungi and roots of	of high	er plants.
34.	Ovule integument gets trans	forme	ed into				
	(A) seed	(B)	fruit wall	(C)	seed coat	(D)	cotyledons
	Ans:(C)						
	Hints: Outer integument to	ansfo	rms into testa where as the i	nner i	ntegument into tegmen.		
35.	Acid rain is caused by						
	(A) NO ₂	(B)	SO_2	(C)	SO_3	(D)	CO_2
	Ans: (B)						
36.	Which one of the following	bacte	rium is used for production				
	(A) Escherichia coli			(B)	Bacillus thuringiensis		
	(C) Staphylococcus aurei	ıs		(D)	Agrobacterium tumefa	ciens	
	Ans: (D)						
37.	A plant cell becomes turgid			(6)			—
	(A) Plasmolysis	(B)	Exosmosis	(C)	Endosmosis	(D)	Electrolysis
	Ans: (C)	1:00	-i				
20	Hints: Endosmosis leads to						
38.	Restriction enzymes are use			(C)	Cinala atrandad DNA	(D)	Daubla atmandad DNA
	•	(B)	Double stranded DNA	(C)	Single stranded DNA	(D)	Double stranded RNA
	Ans: (B) Hints: Restriction endunue	olongo	is used to out dsDNA at no	lindro	mic seguence		
39.	Spindle fibre is made up of	cicase	is used to cut usDNA at pa	illulo	inic sequence.		
39.	(A) Humulin			(B)	Intermediate filament		
	(C) Flagellin			(D)	Tubulin		
	Ans: (D)			(D)	Tubumi		
40.	Edible part of Mushroom is						
10.	(A) Basidiocarp	(B)	Primary mycelium	(C)	Fungal hyphae	(D)	Basidiospores
	Ans: (A)		Timus) injection	(0)	Tungur njipnut	(2)	Dustarosports
41.	Calcium level decreases in	the blo	ood due to hyposecretion of				
	(A) Parathyroid hormone			(C)	Thyroxine	(D)	Adrenaline
	Ans: (A)	` \		()		()	
	Hints: Hyposecretion of F	ТН са	nuses decrease in the level o	f calc	ium in the blood.		
42.	Kupffer's cells are						
	(A) Phagocytic	(B)	Actin	(C)	Myosin	(D)	Fibrin
	Ans: (A)						
	Hints: Kupffer's cells are p	hagoc	eytic cells of liver.				
43.	Which centre is stimulated	during	g increase in body temperate	ure			
	(A) Anterior hypothalamu	ıs (B)	Posterior hypothalamus	(C)	Limbic system	(D)	Red nucleus
	Ans: (A)						
	Hints: Anterior hypothala		_	in boo	dy temperature.		
44.	Name the following having						
	(A) Myoglobin	(B)	Prophase II	(C)	Anaphase I	(D)	Metaphase II
	Ans: (A)						
	Hints: Myoglobin present	in mu	scles stroes oxygen				
45.	Longest phase of meiosis						
	(A) Prophase I	(B)	Prophase II	(C)	Anaphase I	(D)	Metaphase II
	Ans: (A)						

WBJ	IEE - 2011 (Answers & Hints	5)					Bio	ology
46.	Tetany is caused by							
10.	(A) Hyperparathyroidism	(B)	Hypoparathyroidism	(C)	Hyperthyroidism	(D)	Hypothyroidism	
	Ans: (B)	(-)	, p - p	(-)		(-)	, p,	
47.	Which the following is a ga	stroint	estine hormone?					
	(A) Prolactin	(B)	Enterokinase	(C)	GH	(D)	FSH	
	Ans: (B)							
48.	Name the hormone that has	no ro	le in menstruation.					
	(A) LH	(B)	FSH	(C)	GH	(D)	TSH	
	Ans:(D)							
49.	Which of the following sub							
	(A) GABA	(B)	Acetylcholine	(C)	Dopamine	(D)	Glutamic acid	
	Ans: (C)							
50.	Hints: Dopamine deficient Movement of tongue muscle	•	•					
30.	(A) facial nerve		trigeminal nerve	(C)	hypoglossal nerve	(D)	vagus nerve	
	Ans: (C)	(D)	u igeniniai nei ve	(C)	nypogiossai neive	(D)	vagus nerve	
	Hints: 12th cranilal nerve	(hvpo	glossal) is responsible for m	novem	nent of tongue.			
51.	Which function will be lost		~ · · · · · · · · · · · · · · · · · · ·	10 , 411	on or tongue.			
	(A) Hearing	(B)	Speech	(C)	Vision	(D)	Memory	
	Ans:(C)	` '				` /	,	
	Hints: Damage of occipita	al lobe	causes loss of vision.					
52.	Meissner's corpuscles occu	ır in	7 0					
	(A) Brain	(B)	Nerve cells	(C)	Skin	(D)	Tongue	
	Ans:(C)							
53.	Osteomalacia is a deficiency							
	(A) Infants due to protein			(B)	Adults due ot protein en			
	(C) Adults due to Vitamin	D defi	ciency	(D)	Infants due to Vitamin K	defic	iency	
<i>51</i>	Ans: (C)		inh suits d bar					
54.	The gene of sickle cell anaer (A) Blood cells	(B)	Bone cells	(C)	Sex chromosomes	(D)	Autocomos	
	Ans: (D)	(D)	Bolle cells	(C)	Sex chromosomes	(D)	Autosomes	
	Hints: The gene for sickle	cell ar	naemia is located in chromos	some i	number 11			
55.	Ptyalin is inactivated by a co				rumoer 11.			
	(A) Pepsin	-	Mucus	(C)	Rennin	(D)	HCl	
	Ans: (D)	()				()	-	
	Hints: Ptylin or α -amylas	e of sa	liva is inactivated by HCl ir	stom	ach.			
56.	Which one of the following	huma	n cells do not contain mitoc	hondr	ia?			
	(A) Nerve cell	(B)	Red blood cell	(C)	Liver cell	(D)	White blood cell	
	Ans: (B)							
	Hints: Matured Red blood							
57.	In which stage of the first m			ids ar				
	(A) Leptotene	(B)	Zygotene	(C)	Pachytene	(D)	Diplotene	
	Ans:(C)		1 1 0 1	1 . 1	tat v tv t			
50	Hints: During pachytenes	_				ar ar	na became clearly visi	ible.
58.	Which one of the following	_				(D)	LIAG	
	(A) UGU Ans: (D)	(B)	AAU	(C)	UUG	(D)	UAG	
	Hints: UAG is a non-sense	e codo	n					
	1111165 • 0710 15 a 11011-501150	Codo						

WB.	IEE - 2	2011 (Answers & Hints)					Biology
59.	Hov	w many pairs of contrast	ing cl	naracters in pea pod were c	hosen	by Mendel?		
	(A)	3	(B)	5	(C)	7	(D)	9
	Ans	: (A)						
	Hint	s: Three pairs of contr	asting	g characters with respect to	pea p	od are (i) Pod position (ii)	pod c	colour (iii) Pod shape
60.		cross between two indivi- type of parents are	duals	produces offsprings with 5	50% d	ominant character (A) and	1 50%	recessive character (a) the
	(A)	$Aa \times Aa$	(B)	$Aa \times aa$	(C)	$AA \times aa$	(D)	$AA \times Aa$
	Ans	: (B)						
	Hint	es: Aa \times aa. This is a tes	st cros	SS.				
61.	Struc	ctural lipids of cell memb	rane					
	(A)	Simple lipid	(B)	Chromolipids	(C)	Steroid	(D)	Phospholipids
	Ans	: (D)						
62.	Whic	ch one of the following	is pol	ysaccharide?				
	(A)	Glycogen	(B)	Sucrose	(C)	Lactose	(D)	Maltose
	Ans	: (A)						
		s: Glycogen is a polysa	accha	ride of glucose.				
63.				A if the DNA codes are ATG	-CAG	?		
	(A)	TAC-GTC	(B)	UAC-GUC	(C)	UCA – TUA	(D)	TCA-GTC
	Ans		. ,				()	
64.		` '	cies is	restricted to a specific area	1?			
		Sibling species		Allopatric species	(C)	Sympatric species	(D)	Endemic species
	Ans	• •	(-)			~)p	(-)	
		s: Endemic species is r	estric	ted to a specific area				
65.		ch of the following is NO						
05.	(A)	Sycon	_	Canal system				
	(B)	Star fish		Radial symmetry				
	(C)	Ascaris		Flame cell				
	(D)	Prawn		Haemocoel				
	Ans:			Hacillococi				
		s: Flame cells are found	l in fl	at worms				
66.				al phyla does not possess a	coalor	m 2		
00.		Platyhelminthes	(B)	Annelida	(C)	Mollusca	(D)	Echinodermata
	Ans	-	(D)	Aimenda	(C)	Wonusca	(D)	Echinodelmata
		· (A) s: Platyhelminthes are a	مام	moto				
67.		iac muscles are	.00010	mate.				
07.			(D)	Striated and involuntary	(C)	Smooth and voluntary	(D)	Smooth and involuntary
			(D)	Strated and involuntary	(C)	Smooth and voluntary	(D)	Smooth and involuntary
68.	Ans	* *	mmii	noglobulins is found as pen	tomor	2		
00.		•		•			(D)	I _C E
		IgG	(D)	IgM	(C)	IgA	(D)	IgE
	Ans	` '	:+h 10) maratanas				
60		s: IgM is a pentamer w		-				
69.		•		s not a phagocytic cell?	(0)	NI t 1. 11	(D)	D1.11
		Macrophage	(B)	Monocyte	(C)	Neutrophil	(D)	Basophil
	Ans	` '		:- WDC				
70		s: Basophil is non-phag						
70.		•		most primitive ancestor of i		D 14 11	(E)	TT 1 3 3 1 1
		Homo habilis	(B)	Australopithecus	(C)	Kampithecus punjabicu	<u>s</u> (D)	Homo neanderthalensis
	Ans	* *	0.1	,	C			
	Hint	s: Ramipithecus is one	of th	e most primitive ancestors of	ot mar	1.		

WBJ	IEE - 2011 (Answers & Hints	s)	<u></u>		<u></u> _		Biology
71.	A female Anopheles mosqu	ito car	h he recognized by				
	=		and more or less of equal	length			
	(B) Proboscis long and pa	_	•	Ü			
	(C) Proboscis short and p	-					
	(D) Both proboscis and pa	_	=				
	Ans: (A)	•					
	Hints: Proboscis and palpi	are lo	ng and of equal in length in	n femal	e Anopheles.		
72.	The anterior V-spot in micro	ofilaria	of Wuchereria represents				
	(A) Nerve ring	(B)	Cervical papilla	(C)	Excretory system	(D)	Reproductive
	Ans:(C)						
	Hints: V-spot in microfilar	ria of W	<i>uchereria</i> represents excr	etory sy	stem.		
73.	In a population, unrestricte	ed repre	oductive capacity is called	1			
	(A) Biotic potential	(B)	Fertility	(C)	Carrying capacity	(D)	Birth rate
	Ans: (A)						
74.	When the two ecosystems of	overlar	each other, the area is ca	lled			
	(A) Habitat	(B)	Niche	(C)	Ecotone	(D)	Ecotype
	Ans:(C)						
	Hints : Ecotone represent to	ransiti	on zone between two ecos	ystems			
75.	Pyramid of energy in ecosy	stems	is				
	(A) Always upright	(B)	Always inverted	(C)	Mostly upright	(D)	Mostly inverted
	Ans:(A)						
76.	Which one of the following	is mai	nly responsible for green	house e	ffect?		
	(A) SO ₂	(B)	CO_2	(C)	CO	(D)	O_2
	Ans: (B)						
	Hints : 60% of the total gre	en hou	se effect is due to CO ₂ .				
77.	Which one of the following	g is an	exotic carp species?				
	(A) <u>Barbus stigma</u>	(B)	Cyprinus carpio	(C)	<u>Labeo</u> <u>bata</u>	(D)	Cirrhinus mrigala
	Ans: (B)						
78.	Which of following two hor	rmone	s are essential for induced	breedir	g of fishes?		
	(A) TSH and ACTH			(B)	Oestrogen and progeste	erone	
	(C) FSH and LH			(D)	Vassopressin and oxyto	cin	
	Ans:(C)						
	Hints: FSH and LH presen	nt in pi	tuitary extract helps in inc	luced be	eeding.		
79.	Which stage of malarial par	asite is	infective to man?				
	(A) Gametocyte	(B)	Merozoite	(C)	Cryptomerozoite	(D)	Sporozoite
	Ans:(D)						
	Hints: Sporozoite stage of	Plasmo	odium is infective to man.				
80.	The scientific name of the n	noth w	hich produce tasar is				
	(A) <u>Bombyx mori</u>	(B)	Antheraea mylitta	(C)	Antheraea assamensis	(D)	Philosomia ricini
	Ans: (B)						

DESCRIPTIVE TYPE QUESTIONS

SUB: BIOLOGY

- 1. What are poikilothermic animals?
 - **A.** The body temperature of poikilothermic animals (cold blooded animals) changes according to environmental temperature. Example are invertebrates, fishes, amphibians and reptiles.
- 2. Write two functions of juxtaglomerular apparatus.
 - **A.** The Juxta glomerular apparatus (JGA) possesses Juxta glomerular cells and Macula densa. The Juxta glomerular cells secrete renin which regulates RAAS mechanism. Macula densa responds to the change in the mineral ion concentration of glomerular filtrate.
- 3. State two differences between red and white muscles.

	Red Muscle	White Muscle
1.	Myoglobin present	Myoglobin absent
2.	Slow fatigue muscle	Fast fatigue muscle
3.	Mitochondria more in	Mitochondria less in number
	number	
4.	Sarcoplasmic reticulum	Sarcoplasmic reticulum more
	less in number	in number

A.

4. What is the difference between pinocytosis and phagocytosis?

Pinocytosis	Phagocytosis
It is "Cell drinking" phenomenon where bulk intake of extracellular fluid with the help of vesicle called pinosome takes place.	It is a "Cell eating" phenomenon where bulk intake of solid material from outside to inside of a cell takes place with the help of phagosome.

A.

- 5. State four important functions of plasma membrane.
 - **A.** Four important functions of plasma membrane are :
 - (i) Involved in active and passive transport
 - (ii) Involved in a variety of cellular processess such as cell adhesion, ion conductivity & cell signalling.
 - (iii) As a cell envelope it contain the protoplasm thus protective in nature.
 - (iv) In prokaryotes, plasma membrane is the site of E.T.S.
- 6. What is bioaccumulation?
 - **A.** Bioaccumulation is the accumulation of toxic substance at a rate greater than at which the substance is lost by an organism.

Longer the biological half life of the accumulated substance, greater is the risk of bioaccumulation.

WBJEE - 2011 (Answers & Hints)

Biology

- 7. What is a test cross? Why is it so named?
 - **A.** Test cross is a cross between F₁ hybrid and homozygous recessive parent.

Test cross is so named as it determines whether the individual with dominant phenotype is homozygous dominant or heterozygous dominant.

- 8. What is ribozyme?
 - **A.** A ribozyme is a RNA molecule possessing a well defined tertiary structure that enables it to catalyse a chemical reaction eg. 23S rRNA (peptidyl transferase).
- 9. What are mycorrhizae?
 - **A.** Mycorrhizae is a symbiotic association between roots of higher plants and fungi.

It plays a key role in mineral absorption specially phosphate.

- 10. Write down the scientific name of China rose plant. Give its floral formula.
 - **A.** Scientific name of China rose is *Hibiscus rosa sinensis*

