Multiple Choice Questions Aimer By Sai Sir www.saiphy.com

Science - II

9664080155

Heredity and Evolution

(1)	The causality behind the sudden	chang	ges was understood due
, ,	toprinciple of Hugo de Vr		norsonstant (0)
	(A) Gene	(B) M	uťation
	(C) Transcription	(D)Ap	pendix
(2)	The proof for the fact that protein	synth	nesis occurs through
	was given by George Bea	dle ar	nd Edward Tatum.
	(A)Appendix	(B)Gr	adual Development
	(C)Gene	(D) M	utation -
(3)	Transfer of information from mole	ecule o	of DNA to mRNA is
	called as process.	EN DO	And Alexander and the first
	(A) Transcription	(B) Ge	ene
	(C) Appendix	(D) M	utation
(4)	Evolution means		
	(A)Mutation	(B)Gr	adual Development
	(C)Transcription	(D)Ap	pendix
(5)	Vestigial organ present in human	body	is the proof of
	evolution.	1200000	
	(A)Gene	(B)Ap	pendix
	(C)Mutation	(D)Gr	adual Development
(6)	proved that except vir		all living organisms
	have DNA as their Genetic mater	ial.	
	(A) Ostwald Avery	(B) M	clyn McCarthy
	(C) Colin MacLeod		l of these
(7)	proposed a model for pr	otein	synthesis with the help
	of DNA in bacterial cells.		mojouo sajej
	(A) Johann Gregor Mendel		(B) Walter and Sutton
	(C) Francois Jacob and Jack Mor	ad	(D) Hugo de Vries
	Andread of Annual Control		

(8) Information about protein synthesis is stored in the			
(A) mitochondria	(B) DNA		
(C) RNA	(D) ribosomes		
(9) brings in the coded	message from the DNA.		
	(C) rRNA (D)ribosomes		
(10) As per the message on mRNA, a			
tRNA. This is called as			
(A) transcription	(B) translation		
(C) translocation	(D) transportation		
(11) is a gradual change of			
over a long duration.	Same (us)		
(A) Evolution	(B) Mutation		
(C) Variation	(D) Heredity		
(12) The theory of natural selection v	was proposed by		
(A) Mendel	(B) Lamarck		
(C) Charles Darwin	(D) Hugo de Vries		
(13) Carbon dating method measure	s the radioactivity of C-14		
and the ratio ofpreser	nt in the organism's body.		
(A) C-12 to C-14	(B) C-6 to C-7		
(C) C-14 to C-12	(D) C-14 to O-16		
(14) Mammals have evolved from			
(A) aves	(B) reptiles		
(C) amphibians	(D) fishes		
(15) is not a vestigial organ	in man.		
(A) Appendix	(B) Wisdom tooth		
(C) Body hair	(D) Duodenum		
(16) is pioneer of the			
(A)Johann Gregor Mendel	(B)Francis Crick		
(C)Thomas Hunt Morgan	(D)James D. Watson		
(17) is the transfer of	biological characters from		
one generation to another via ge	enes.		
(A)Evolution	(B)Heredity		
(C) Gene	(D) Peripatus		
(18) Each mRNA is made up of thous	sands of		
(A)Reptiles	(B)Transcription		
(C)Triplet Codons	(D)Duodenum		

(A)Appendix (C) Mutation	(D) is the connecting link (B)D	iplet codons nvertebrates between annelida and uodenum Gene
ANSWERS: (1) Mutation (4) Gradual development (6) All of these (8) D N A (11) Evolution (13) C-14 to C-12 (16) Johann Gregor (18) triplet codons	(7) Francois Jacob a(9) m R N A(12) Charles Darwin(14) reptilesMendel	(10) translation

Life Processes In Living Organisms Part - I

(1)	After complete oxidation of a gluc	cose molecule, n	umber of ATP
	molecules are formed.		
* 1		(C) 38	(D) 32
(2)	At the end of glycolysis, molecule	are obtained.	
	(A) one molecule	(B)two molecule	
	(C)three molecule	(D)four molecul	
(3)	Genetic recombination occurs in	phase of propha	ise of meiosis
	(A) First phase	(B) Second pha	se
	(C)Third phase	(D) Fourth phas	
(4)	All chromosomes are arranged pa	arallel to equator	rial plane of
	cell in phase of mitosis.		
	(A) Metaphase (B)Prophase	(C) Anaphase	(D)Telophase
(5)	For formation of plasma membra		re necessary.
		(B)Cholesterol	
	(C) Phospholipids	(D) Glycolipids	
(6)	Our muscles cells perform type of		
	(A) Aerobic (B) Anaerobic		
(7)	Which of the following protein is		
	(A) Haemoglobin (B) Insulin		
(8)	Which one of the following vitami		
	(A) D (B) K	(C) A	(D) C
(9)	Water content of Blood Plasma is		
	(A) 70% (B) 90%	(C) 65%	(D) 50%

(10)	In which stage the nuclear men	nbrane complete	ely disappears
	during nuclear division?		
	(A) Prophase	(B) Metaphase	
	(C) Anaphase	(D) Telophase	
(11)	Number of chromosomes in dip	loid cell	
	(A) n (B) 3n	(C) $\frac{n}{2}$	(D) 2n
(12)	In which type of cells meiosis of	4	(15) 211
(12)	(A) germ cells		
	(C) somatic cells	(B) stem cells	-11
(1.3)	Which vitamin is called riboflay	(D) epithelial co	
(10)	(A) A (B) B_5	(C) B ₂	(D) C
(14)	In which part of cell, electron tr		
, - ,	(A) cytoplasm	(B) mitochondr	
	(C) nucleus	(D) Golgi body	ıa
(15)	Which of the following vitamins		the
_ '	production of FADH ₂ and NAD	H ₂	
	(A) vitamin E	(B) nicotinamic	le
	(C) vitamin C	(D) vitamin D	
(16)	The protein ossein is produced		
	(A) blood (B) muscles		(D) pancreas
(17)	Energy from food is obtained in	the form of	(-) [
			(D)rRNA
(18)	Process of glycolysis occurs in .		
	(A) Mitochondria	(B) Cytoplasm	
	(C) Angonobia		
1101	(C) Anaerobic	(D) Metaphase	
(19)			nto two
(19)	Pyruvic acid formed in glycolysi molecules of		nto two
(19)	Pyruvic acid formed in glycolysi molecules of	s is converted in	nto two
	Pyruvic acid formed in glycolysi molecules of	s is converted in	ANSWERS
	Pyruvic acid formed in glycolysi molecules of	s is converted in	e in88.(1)
	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes place (B)Plasma men	e in
	Pyruvic acid formed in glycolysi molecules of	s is converted in	e in
(20)	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes place (B)Plasma mem (D) Mitochondr	e in
(20)	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes plac (B)Plasma mem (D) Mitochondr	ce in
(20) ANS (1) 3	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes place (B)Plasma mem (D) Mitochondr (3) third	e in iberane ia l phase
(20) ANS (1) 3 (4) M	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes place (B)Plasma mem (D) Mitochondr (3) third (6) anae	e in
(20) ANS (1) 3 (4) N (7) 1	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes place (B)Plasma men (D) Mitochondr (3) third (6) anae	e in
(20) ANS (1) 3 (4) M (7) H (11)	Pyruvic acid formed in glycolysi molecules of	s is converted in (B)Electron (D) Keratin cycle) takes place (B)Plasma mem (D) Mitochondr (3) third (6) anace (90% (10) Me (6) B ₂ (14) mi	ce in
(20) ANS (1) 3 (4) M (7) M (11) (15)	Pyruvic acid formed in glycolysi molecules of	(B)Electron (D) Keratin cycle) takes place (B)Plasma men (D) Mitochondr (3) third (6) anae (90% (10) Me (3) B ₂ (14) mi (5) bone (17) AT	ce in

Life Processes In Living Organisms Part - II

(1)	div	vides by simple l	oinary fission.	
	(A) Paramoecium			(D) Hydra
(2)	repro			
	(A) Paramoecium	(B) Amoeba	(C) Euglena	(D) Hydra
(3)	Hydra reproduces	s by		
	(A) binary fission		(B) budding (D) multiple fi	
n e n	(C) fragmentation	()X = 1	(D) multiple fi	ssion
(4)	Which of the follo	wing is a mode	of asexual rep	roduction?
	(A) Multiple fissio	n	(B) Spore form	nation
	(C) Budding	n	(D) All of thes	е
(5)	For binary fission	, amoeba requir	es	. parent cells.
	(A) three	(B) two	(C) one	(D) zero
(6)	Yeast reproduces	by		
	(A) budding(C) spore formation		(B) binary fiss	sion
	(C) spore formation	on	(D) multiple fi	ission
(7)	r	eproduces from	the buds on the	he leaf margin.
			0220 00000 022 0	
	(A) Lotus	(B) Hibiscus	(C) Bryophylli	um (D) Papaya
(8)	(A) Lotus	(B) Hibiscus s present at the	(C) Bryophylli tip of the style	um (D) Papaya
	(A) Lotus is (A) Stigma	(B) Hibiscus s present at the (B) Anther	(C) Bryophylli tip of the style (C) Ovary	um (D) Papaya e. (D) Ovule
	(A) Lotus (A) Stigma	(B) Hibiscus s present at the (B) Anther is formed in ea	(C) Bryophylli tip of the style (C) Ovary ach ovule by n	um (D) Papaya e. (D) Ovule neiosis.
	(A) Lotus is (A) Stigma	(B) Hibiscus s present at the (B) Anther is formed in ea	(C) Bryophylli tip of the style (C) Ovary ach ovule by n	um (D) Papaya e. (D) Ovule neiosis.
(9)	(A) Lotus (A) Stigma	(B) Hibiscus s present at the (B) Anther is formed in ea (B) Seeds	(C) Bryophyll tip of the style (C) Ovary ach ovule by n (C) Embryo sa	um (D) Papaya e. (D) Ovule neiosis. ac (D) Fruit
(9)	(A) Lotusis (A) Stigma (A) Pollen grains	(B) Hibiscus s present at the (B) Anther is formed in ea (B) Seeds at the cost of the	(C) Bryophyllitip of the style (C) Ovary ach ovule by n (C) Embryo sa te food stored	um (D) Papaya e. (D) Ovule neiosis. ac (D) Fruit in
(9) (10	(A) Lotusis (A) Stigma (A) Pollen grains (A) Zygote develops	(B) Hibiscus s present at the (B) Anther is formed in ea (B) Seeds at the cost of the (B) pollen grain he hormone	(C) Bryophyllitip of the style (C) Ovary ach ovule by n (C) Embryo sa the food stored (C) fruit	um (D) Papaya e. (D) Ovule neiosis. ac (D) Fruit in
(9) (10	(A) Lotusis (A) Stigma (A) Pollen grains (A) Zygote develops (A) endosperm	(B) Hibiscus s present at the (B) Anther is formed in ea (B) Seeds at the cost of the (B) pollen grain he hormone	(C) Bryophyllitip of the style (C) Ovary ach ovule by n (C) Embryo sa ie food stored (C) fruit (B) FSH	um (D) Papaya c. (D) Ovule neiosis. ac (D) Fruit in (D) ovary

(12) At the time of birth, there are i	mmature oocytes in
the ovary of female foetus.	
(A) 2 - 4 hundred	(B) 5 - 6 hundred
(C) 2 - 4 million	(D) 8 - 10 million
(13) Menopause occurs at the age o	f
(A) 18 - 20 years	(B) 45 - 50 years
(C) 20 - 30 years	(D) 18 years
(14) Menstrual cycle occurs at an ir	nterval of every
(A) 8 - 10 days	(B) 15 - 20 days
(C) 28 - 30 days	(D) 6 - 7 days
(15) In humans, sperm production	
	(C)Euglena (D)Stigma
(16) In humans, chromosome	
(A) X-chromosome	(B) Y- chromosome
(C) Z- chromosome	(D) W- chromosome
(17) In male and female reproductive	
gland is same.	
(A) Sebaceous	(B) accessory
(C) Sublingual	(D) Rivini's
(18) type of reproduction occu	
(A) sexual (B) Asexual	(C) Both (D)Can't Say
(2) 1.00.000	(b) Edil t Say
	gamen and about the control of the
	The Sumipose Could be
	helte mid sings (U)
and the properties have been stated	D(Able) by June 1000 and (A)
	10AAEE
ANSWERS:	
	(0) 1 11:
(1) Amoeba (2) Euglena	(3) budding
(4) all of these (5) one	(6) budding
(7) Bryophyllum (8) Stigma	(9) Embryo sac
(10) endosperm (11) testostero	
(13) 45 - 50 years (14) 28 - 30 da	
(16) Y-chromosome (17) accessory	(18) Asexual
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Environmental Management

(1)	The second secon	oiodiversity spots ar		
	(a) 30	(b) 34	(c) 35	(d) 40
(2)		e following belongs t	to Rate species?	
	(a) Tiger		(b) Lion	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	(c) Red pand		(d) Lion tailed	
(3)		versity day is celebr		
	(a) 22 nd May		(b) 5 th June	
	(c) 21st Marc		(d) 22 nd April	
(4)		e following is not an	organic compor	ent of
	ecosystem?			•
	(a) Proteins		(b) Oxygen	
	(c) Carbohyo		(d) fats	
(5)		Conservation Act wa		
	(a) 1980			(d) 1963
(6)		.has been establish		effective
	(a) (100)	tion of environment	related laws.	
		onservation Act		
		protection Act	/ /	
		nental conservation	Act	*
	(d) Indian Fo	orest Act	25.4	
		JUMMAII		5
		and the same of th		
A TA	CWEDG.		•	
	ISWERS:	(O) Dod Do 1-	(2) 00nd M	(4)
	34	(2) Red Panda	(3) 22 nd May	. ,
(5)	1980	(6) Environmental	conservation Act	•

Towards Green Energy

				Section 1
		ic induction was		
	(a) Edison	aday towers	(b) Newton	
	(c) Michael Far	aday	(d) Archimedies	3
(2)	There are	towers	in the thermal p	ower station.
	(a) One	(b) Two	(c) Three	(d) Four
(3)		of coal		
		(b) O ₂		
(4)		ssion of uranium		
		(b) Two		
(5)		the dam posses		
		(b) potential		
(6)	The electric end	ergy obtained from	n solar photovol	taic cell is of
	type.			1.089
	(a) DC	(b) AC vork during	(c) static	(d) magnetic
(7)	Solar cell can v	vork during	only.	
		(b) morning		
(8)	Each nuclear f	ission of uranium	nucleus release	
	energy.		CHECK OF STRAIN	
		(b) 236 MeV		
(9)		with capacity righ		l
		mmercially availa		
	(a) 1 kW, 7000	kW MW	(b) 10 kW, 700	kW
(10		cell can have an e	•	
		(b) 10%		
(1)		electric power p		
	(a) 1990	(b) 1900	(c) 1600	(d) 1960

(12) The natural gas	based power p	olant in Maharas	htra is at
(a) Koyana (13) It took millions of (a) chemical (14) The photovoltaic electrical energy	of years for the (b) solid cells convert	(c) gaseous	(d) fossil.
(a) mechanical		(c) chemical	(d) sound
		inns s	
		On4E	
ANSWERS: (1) Michael faraday (5) potential (9) 1kW, 7000Kw (13) fossil	(2) Two (6) DC (10)15% (14) solar.	(3) CO2 (7) daytime (11) 1960	(4) Three (8) 200 MeV (12) Anjanvel

6. Animal Classification

	Telegra (public)
*(1) Which special cells are present (Porifera)?	in the body of sponges
(a) Collar cells	(b) Cnidoblasts
(c) Germ cells	(d) Ectodermal cells
*(2) Which of the following animals	'body shows bilateral
symmetry?	
(a) Star fish	(b) Jelly fish
(c) Earthworm	(d) Sponge
*(3) Which of the following animals	can regenerate it's broken
body part?	
(a) Cockroach	(b) Frog
(c) Sparrow	(d) Star fish
*(4) Bat is included in which class?	
	(c) Mammalia (d) Aves
(5) The first person to perform clas	sification of animals was
(a) Theophrastus	(b) Linnaeus
(c) Aristotle	(d) Meyer
(6) Pharyngeal gill-slits are absent	in
(a) Non-chordates	(b) Chordates
(c) Vertebrates	(d) Craniates.
(7) In multicellular organisms, the	body organization is called
organization.	
(a) Protoplasmic	(b) Cellular grade
(c) Tissue grade	(d) Organ system
(8) Amoeba is a ani	
(a) Symmetrical	(b) Bilaterally symmetrical
(c) Radially symmetrical	(d) Asymmetrical
(9) Radial symmetry is observed in	
(a) Amoeba (b) Octopus	(c) Starfish (d) Fish

(10) The animals wit	h three germ laye	ers a	re called .	
(a) Diploblastic				
(c) Triplet	*	d) T	riploblasti	c ·
(11) The mammal wh	nich lays eggs is			
(a) Platypus	(b) Bat	(c) W	hale	(d) Bear
(12) s	hows bilateral sy	mm	etry.	
	(b) Starfish			(d) Jellyfish
(13) In annelida	, help	in lo	comotion.	
	(b) Cilia			
(14) The warm blood				
(a) Poikilotherm			lomeother	ms
(c) Ambitherms			arasitic	
(15) In			- 1	
(a) Amphibia		(b) A		
(c) Reptilia		` '	Iammalia	
(16) The animals wh				are called
(a) Acoelomate		The second second	coelomate	
(c) Pseudocoelor			ucoeloma	te
(17) The				
(a) Molluscs (c) Annelids		2000	coelenterat chinodern	
(18) In				.15
(a) Frog		(b) E		
(c) Snake			arrot	
(19) There are appro				ecies of
animals found		••••	innions op	ccico oi
(a) Six		(b) S	even	
(c) Sixteen			eventeen	•
The second of th	ali ani. mi	11/43		
	CCANO			
ANSWERS:	(O) Forthyrorm		(3) Starf	ish
(1) Collar cells	(2) Earthworm			chordates
(4) Mammalia	(5) Aristotle (8) Asymmetric	a 1	(9) Starf	
(7) Cellular grade	(11) Platypus	aı	(12) Fis	
(10) Triploblastic	(14) homeother	ms	(15) Am	
(13) Setae	(17) Echinoder		(18) Fro	
(16) Acoelomate (19) Seven	(17) Dellillodel		()	
(I) OCACII				

Introduction to Microbiology

(1) Milk is at the begin	ning to destroy unwanted			
microbes.				
(a) heated	(b) cooled			
(c) pasteurized	(d) powdered			
(2) Very hard	formed after ripening for			
12 - 18 months.				
(a) mozzarella	(b) cheddar			
(c) parmesan	(d) cottage			
(3) Most appropriate method of disp	(3) Most appropriate method of disposal of dry waste is			
(a) sanitary landfill	(b) composting			
(c) incineration	(d) recycling			
(4) bacteria present in Roo	t nodules of leguminous			
plants help in nitrogen fixation.				
(a) Rhizobium	(b) Azotobacter			
(c) Geobacter	(d) Pseudomo			
(5) Substance prepared by using year	(5) Substance prepared by using yeast is			
(a) bread (b) honey				
(6) Yeast reproduces by meth	nod of asexual reproduction.			
(a) spores	(b) budding			
(c) binary fission	(d) vegetative reproduction			
The state of the s	DAMEE			
Gozla: 10°				
Ion hard albeggin (k)				
ANSWERS:	de la company			
(1) pasteurized (2) parmesan	(3) recycling			
(4) Rhizobium (5) bread	(6) budding			

Cell Biology and Biotechnology

(1)	(1) Stem cell preserved in sterile vials are kept in liquid nitrogen					
	at to		(b) -125°C to -150°C			
	(c) 135°C to	190°C	(d) 133°C to 18	37°C		
(2)	Transplanta	tion human organ ac	ct came into for	ce in the year		
		// // 20/ (4)		744		
	(a) 2014	(b) 2011	(c) 2009	(d) 1994		
(3)		of India had establis		al		
` '		gy Board in				
	The state of the s	(b) 1982		(d) 1999		
(4)	Indian Agriculture Research institute is at					
, ,	(a) Solapur	(b) Bengalaru	(c) Delhi	(d) Pune		
(5)	(5) In Nil-Kranti Mission - 2016 program, government is offering					
` '	subsidies of		meded (d)//	Way and		
	(a) 15% - 20%		(b) 50% - 100%			
(c) 75% - 77		%	(d) 35% - 50%			
(6)	Adulsa is tal	ken is cure		ler soul in T		
, ,	(a) cough	(b) fever	(c) dysentery	(d) vomiting		
(7)	Pesticides ar	e infact a type of				
	(a) fertilizer	/JUU4U	(b) poison			
	(c) manner		(d) organic pro	duct		
(8) In soil-less farming i.e. hydroponics chemical						
fertilizer are used.						
	(a) solid	(b) liquid	(c) gaseous	(d) plasma		

(9) National pome (a) Solapur (c) Nagpur		(b) Pune (d) New Delhi		
(10) DNA fingerpr (a) formal sci (c) social scie	(b) natural sci	ful in science. b) natural science d) forensic science		
(11) Interferon is a group of small sized protein molecule used treatment of disease. (a) cancer (b) diabetes (c) anemia (d) viral				
(12) Cattle feeding viral disease	g on transgenic rinderpest.	does no	ot contract a	
(a) potato (13) Human Insu	(b) onion lin gene now is be			
(a) horse	(b) cat	(c) bacteria	(d) virus	
	96640	8015	5	
(7) poison (8	0°C , (2) 1994) 50% - 100%) liquid (9) Solap 2) tomato	(3) 1982 (6) cough our (10) fores (13) bact	n nsic science	

Social Health

- (1) Which of following mentioned factors are important for good social health?
 - (a) strong personality
 - (b) having large number of friends
 - (c) trust in others
 - (d) all of the above
- (2) All of the following are accepted stress management techniques except
 - (a) avoiding problem
 - (b) effective time management
 - (c) relaxation
 - (d) exercise

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ANSWERS:

- (1) all of the above
- (2) avoiding problem

Disaster Management

	*				
(1)	Wild animal attack is	type of disaster	r.		
	(a) Atmosphere	(b) Migration			
	(c) Geological	(d) Biological			
(2)	The chairman of village level committee is				
	(a) Sarpanch	(b) Chief Ministe	er		
	(c) Collector	(d) Prime Minist	ter		
(3)	Tsunami is a type of	disaster.	_		
	(a) Biological (b) Man-made	(c) Geological	(d) Plants		
(4)	(4) The important link between measures after disaster and				
	national development comes und	er			
•	(a) Preparation	(b) Restoration			
	(c) Resurgence	(d) Impact of dis	saster		
(5)	The disaster management act pas	ssed in our coun	try in		
		(c) 1998			
(6)	In 2014 there had been a huge	in the vi	llage Malin.		
	(a) Cyclone	(b) Volcano eruj	ption		
	(c) Landslide	(d) Bomb blast	*		
(7)	Disasters definitely affect the	of the na	ation.		
	(a) Economy	(b) Geography			
	(c) Health	(d) Pollution			
(8)	The disaster management schem		anged with		
	respect to of the	disaster.			
	(a) Nature (b) Culture				
(9)	In Maharashtra is in action		eserve Force.		
	(a) WHO (b) NDRF	(c) NCC	(d) MCC		

