1. 2.	Heart sound "DUB" is (a) valve (c) semilunar valve  Ornithine cycle is fou (a) liver (c) heart	caused due to closing of (b) tricuspid valve (d) none of these  nd in (b) kidney (d) muscles	10.	Correct sequence in cell type is (a) $G_1,G_2,M.S$ (b) $G_1,S,G_2,M$ (c) $G_1,M,S,G_1$ (d) $S,M,G_1,G_2$ Vestigeal organ in human being is (a) incisor (b) canines (c) molar (d) premolar					
3.	Goitre is a patholog with: (a) glucagon (c) progesterone	(b) thyroxine (d) testosterone	12.	Aerobic respiration is related with  (a) mitochondria  (b) plasma membrane  (c) golgi bodies					
4.	(a) Dodo (c) Sphenodon	een reptiles and birds is:  (b) <i>Dimetrodon</i> (d) <i>Archaeopteryx</i>	13.	(d) endoplasmic reticulum  The connection between two cells is (a) plasmadesmata (b) microfilaments (c) sieve tube (d) none of these					
5.	Which one of the foll (a) all enzymes are pr (b) all proteins are en (c) some enzymes are (d) all fats are enzyme	oteins zymes e proteins	14.	Natural pearl is (a) a mollusc (b) an annelid (c) an arthropod (d) an echinodermate					
6.	The site of fertilization in mammals is (a) ovary (b) abdominal (c) uterus (d) fallopian tube			Salient feature of Arthropoda is  (a) aquatic and free living  (b) chitinous exesrction and jointed appendeges					
7.	Natural parthenogen (a) housefly (c) <i>Drosopiula</i>	esis is found in? (b) honey bee (d) all of these	16	(c) both 'a' and 'b' (d) none of these					
8.	Sex hormones can wo (a) insulin (c) pituitary	ork without the help of (b) placenta (d) gonadotropins	16.	Miller and Urey performed an experiment to prove the origin of life. They took gases $NN_3$ and $H_2$ along with (a) $N_2$ and $H_2O$ (b) $H_2O$ and $CH_4$ (c) $CH_4$ and $N_2$ (d) $CO_2$ and $NH_3$					
9.	Mammals excrete (a) urea (c) ammonia	(b) uric acid (d) all of these	17.	Spermatogenesis is induced by (a) FSH (b) ACTH (c) ICSH (d) ATH					

18.	Which one of the effective in <i>Ascaris</i> inf (a) chloroquin (b) <i>Cinchona</i>		nost		<ul><li>(b) highly efficient aerobic oxidation of fats</li><li>(c) anaerobic oxidation of carbohydrates</li><li>(d) all of these</li></ul>						
	(c) Colchicum			28.	Ervthrocytes of adu	It rabbit and other					
	(d) oil of <i>Chenopodium</i>	1		mammals are formed in							
	(,				(a) liver	(b) spleen					
19.	Which one of the	following is chem	nical		(c) kidney	(d) red bone marrow					
	transmitter for neuro				( )	( m)					
	(a) glycine	(b) GABA		29.	Pseudocoel is a cavity f	ound in					
	(c) adrenalin	(d) acetylcholine			(a) Hydra	(b) Ascaris					
	,	, , , , ,			(c) housefly	(d) sponge					
20.	During hibernation, fro	og's respiration is			(0) 3501180						
	(a) cutaneous	(b) pulmonary		30.	Sarcolemma is a membrane found over						
	(c) buccopharyngeal	(d) pharyngeal			(a) heart	(b) cardiac muscle					
					(c) muscle fibre	(d) nerve fibre					
21.	Blood carries CO <sub>2</sub> main	nly in which form?									
	(a) Hb.CO <sub>2</sub>			31.	Heparin						
	(b) NaHCO₃				(a) is antiserum	(b) helps in clotting					
	(c) carbonic acid				(c) helps in secretion	(d) is anticoagulant					
	(d) Hb.CO <sub>2</sub> and carbon	monoxide									
				32.	Trichocyst and nemato	cysts are meant for					
22.	Which one of the fo	ollowing is necessaiy	/ to		(a) defense	(b) nutrition					
	start clotting of blood	?			(c) respiration	(d) excretion					
	(a) heparin										
	(b) serotonin			33.		ition of nutrients both					
	(c) thromboplastin and			functions are performe	ed by						
	(d) fibrinogen and pro	thrombin			(a) blastocoels						
			. \		(b) coelom	_					
23.	During oxidative photosic of ATR	osphorylation, the		(c) spongocoel							
	gain of ATP is	/h\ 20			(d) gastrovascular cavit	.y					
	(a) 40 (c) 34	(b) 38 (d) 30		34.	In mammals the dige	estion of starch starts					
	(C) 34	(u) 30		34.	from	estion of startif starts					
24.	Which of the following	nairs is correct?			(a) mouth	(b) stomach					
24.	(a) annelida-polychaet				(c) oesophagus	(d) duodenum					
	(b) arthropoda-crustae				(c) ocsopriagas	(a) adodenam					
	(c) mollusca-cephalop		In which of the following, Nissl's granules are								
	(d) protozoa-Hydra			35.	found?	<b>0</b> ,					
	(27)				(a) liver cells	(b) nerve cells					
25.	Nerve impulse	initiates with	the		(c) intestinal cells	(d)uriniferous tubules					
	movements of										
	(a) K <sup>+</sup>	(b) Na <sup>+</sup>		36.	In sponges, food is stor	ed in					
	(c) Ca <sup>+</sup>	(d) Mg <sup>+</sup>			(a) porocytes	(b) choanocytes					
					(c) amoebocytes	(d) thesocytes					
26.	Spindle fibres of a mi	totic cells are made	Up								
	of		<b>37.</b>	Largest egg is of							
	(a) actin	(b) myosin			(a) PPLO						
	(c) collagen	(d) tubutin			(b) Ostrich						
					(c) Hydra						
27.	The migrating birds re	•			(d) Periplanata Americ	ana					
	(a) anaerobic oxidation	n of proteins									

anneiida and arthropods? (a) basal nerve cord  49. Sympathetic nervo	(c) 14 days (d) 30 days						
	Sympathetic nervous system induces						
· ·	(a) heartbeat						
	(b) secretion of semen						
	(c) secretion of saliva						
	(d) secretion of saliva  (d) secretion of digestive juices						
<b>39.</b> When bath-sponges dries up, which of the	(a) secretion of digestive juices						
	Organ of Corti is found in						
(a) spicules (b) tentacles (a) heart	(b) kidneys						
(c) spongin fibres (d) none of these (c) inner ear	(d) nasal chamber						
40. Digestion of cellulose in non-ruminants takes 51. Apical dominance i	Apical dominance is caused by						
place in (a) I AA	(b) I BA						
(a) caecum (b) colon (c) 2,4-D	(d) 2,4,5-T						
(c) small intestine (d) large intestine	(, -, -, -						
	n germination, produces						
41. DNA is found in (a) protonema	(b) antheridia						
(a) nucleus only (c) archegonia	(d) vegetative body						
(b) cytoplasm only	(a) regetative body						
(c) nucleus and cytoplasm 53. Plasmids are							
(d) none of these (a) viral RNA in hos	t cells						
	(b) viral DNA in host cells						
(b) viidi bivi iii iios	(c) extra non-genetic element						
42. Cellular respiration occurs in (c) extra non-genet	tic element						
42. Cellular respiration occurs in (c) extra non-genet (a) nucleus (b) ribosomes (d) extrachromosomes							
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria (c) extra non-genet	tic element mal material of E.coli						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain,	tic element						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in	tic element mal material of E.coli						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) extra non-genet (d) extrachromosom (d) extrachromosom (in) (a) producer	tic element mal material of E.coli maximum energy is stored						
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42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket  Who discovered that malaria is transmitted by mosquitoes?  (c) extra non-genet (d) extrachromosom (d) extrachromosom (d) extrachromosom (a) producer (a) producer (b) primary consum (c) secondary consum (d) decomposer	tic element mal material of E.coli maximum energy is stored ner umer						
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42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket  Who discovered that malaria is transmitted by mosquitoes? (a) Grassi (b) Laveron (c) Lancisi (c) extra non-genet (d) extrachromosom (d) extrachromosom (d) extrachromosom (d) extrachromosom (a) producer (b) primary consum (c) secondary consum (d) decomposer (d) decomposer	tic element mal material of E.coli maximum energy is stored ner umer						
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42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (c) secondary consum (c) secondary consum (d) decomposer  44. Who discovered that malaria is transmitted by mosquitoes? (a) Grassi (b) Laveron (c) Lancisi (d) Ronald Ross (a) vernalization (b) stratification (b) stratification (c) devernalization (d) photophosphore (a) actin (b) myosin (c) ATP (d) actomyosin  56. Bordered pits are get and dicots (c) gymnosperms	tic element mal material of E.coli maximum energy is stored ner umer seeds is called rylation generally found in						
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42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (c) secondary consum (d) decomposer by mosquitoes? (a) Grassi (b) Laveron (c) Lancisi (d) Ronald Ross (a) vernalization (b) stratification (c) devernalization (d) photophosphore (a) actin (b) myosin (c) ATP (d) actomyosin (a) annelids (b) mollusca (c) arthropods (d) extra non-genete (d) extra non-genete (d) extra chromosom (a) producer (b) primary consum (c) secondary consum (d) decomposer (e) secondary consum (c) secondary consum (d) decomposer (e) devernalization (f) stratification (f) photophosphore (g) gymnosperms (g) gymnosp	tic element mal material of E.coli maximum energy is stored ner umer seeds is called rylation generally found in (b) monocots						
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42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, (a) saddle joint (b) hinge joint (a) producer (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (c) secondary consum (c) secondary consum (c) secondary consum (c) Lancisi (d) Ronald Ross (a) vernalization (b) stratification  45. Which one of the following is a source of energy for muscle contraction (a) actin (b) myosin (c) ATP (d) actomyosin  46. Tube feet are locomotary organs found in (a) annelids (b) mollusca (c) arthropods (d) echinoderms  57. One gene-one enz by  47. Anti-A and Anti-B antibodies are not found in (a) Mendel (b) If	tic element mal material of E.coli  maximum energy is stored  ner umer  seeds is called  rylation  generally found in (b) monocots (d) bryophytes  ryme hypothesis' was given  Darwin						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (c) secondary consum (d) decomposer (d) decomposer (e) Lancisi (f) Ronald Ross (h) Laveron (f) Lancisi (g) Ronald Ross (h) Stratification (h) stratification (h) stratification (h) primary consum (h) stratification (h) stratification (h) stratification (h) primary consum (h) decomposer	tic element mal material of E.coli  maximum energy is stored  ner umer  seeds is called  rylation  generally found in (b) monocots (d) bryophytes  syme hypothesis' was given						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (c) secondary consum (c) secondary consum (d) decomposer (e) Lancisi (f) Laveron (g) Lancisi (g) Ronald Ross (h) Laveron (h) stratification (h) stratification (h) stratification (h) stratification (h) stratification (h) myosin (c) ATP (d) actomyosin (e) ATP (f) actomyosin (f) gymnosperms (g) Mendel (g) Mendel (g) Robert Hook (g)	tic element mal material of E.coli  maximum energy is stored  ner umer  seeds is called  ylation  generally found in (b) monocots (d) bryophytes  yme hypothesis' was given  Darwin d) Beadle and Tatum						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (c) secondary consum (c) secondary consum (d) decomposer (e) Lancisi (f) Laveron (g) Lancisi (g) Ronald Ross (h) Laveron (h) stratification (h) stratification (h) stratification (h) stratification (h) stratification (h) myosin (c) ATP (d) actomyosin (e) ATP (f) actomyosin (f) gymnosperms (g) Mendel (g) Mendel (g) Robert Hook (g)	tic element mal material of E.coli  maximum energy is stored  ner umer  seeds is called  rylation  generally found in (b) monocots (d) bryophytes  ryme hypothesis' was given  Darwin						
42. Cellular respiration occurs in (a) nucleus (b) ribosomes (c) golgi body (d) mitochondria  54. During food chain, in (a) saddle joint (b) hinge joint (a) producer (c) fibrous joint (d) ball and socket (b) primary consum (c) secondary consum (d) decomposer (e) Lancisi (d) Ronald Ross (a) vernalization (b) stratification  45. Which one of the following is a source of (c) devernalization (d) photophosphor (a) actin (b) myosin (c) ATP (d) actomyosin (d) energy for muscle contraction (a) actin (b) myosin (c) ATP (d) actomyosin (e) annelids (b) mollusca (c) arthropods (d) echinoderms (c) gymnosperms  47. Anti-A and Anti-B antibodies are not found in which of the following blood group? (c) Robert Hook (c) Robert Hook (c) (c) AB (b) O (c) A (d) B (c) Robert Hook (c)	tic element mal material of E.coli  maximum energy is stored  ner umer  seeds is called  ylation  generally found in (b) monocots (d) bryophytes  yme hypothesis' was given  Darwin d) Beadle and Tatum						

59.		lowing is a monocarpic		(c) essential	(d) all of these					
	plant?	/L\ C'	74	Separation of linked genes is called						
	(a) Pear (c) Mango	(b) Citrus (d) Bambusa	71.	(a) linkage	(b) segregation					
	(c) Mango	(a) Bambasa		(c) crossing over	(d) genetic mutation					
60.	Megasporophyll of Cyc	cas is equivalent to		(c) crossing over	(a) genetic matation					
	(a) stamen	(b) sepal	72.	Anti-viral substance is						
	(c) petal	(d) carpel		(a) bacteria	(b) antibody					
				(c) antigen	(d) interferon					
<i>61</i> .	The term leptome is us	sed for								
	(a) xylem	(b) phloem	73.	The enzyme which is u						
	(c) endodermis	(d) pericycle		(a) DNA ase	(b) aldol ase					
62.	The formation of fruits	s without fertilization is		(c) RNA polymerase	(d) DNA polymerase					
62.	called	s without Tertilization is	74.	C <sub>4</sub> -cyclc is found in						
	(a) polyspory	(b) parthenogenesis	/4.	(a) fir	(b) mango					
	(c) polyembryony	(d) parthenocarpy		(c) sugarcane	(d) none of these					
	(-) []	(,		(1)						
63.	An alga which is rich in	proteins is	<b>75.</b>	RuBP is found in						
	(a) <i>Ulothrix</i>	(b) Spirogyra		(a) ETS	(b) Calvin cycle					
	(c) Nostoc	(d) Chlorella		(c) C <sub>4</sub> plants	(d) Krebs cycle					
				./						
64.	Vivipary is seen in	(la) managa ku ta a	76.	Incipient nucleus is for						
	<ul><li>(a) mangroves</li><li>(c) hydrophytes</li></ul>	(b) xerophytes (d) mesophytes		(a) myxophyceae (c) rhodophyceae	<ul><li>(b) phaeophyceae</li><li>(d) chlorophyceae</li></ul>					
	(c) hydrophytes	(d) mesophytes		(c) modopnyceae	(u) chiorophyceae					
	<b>65.</b> Which one of	of the following is a	Last electron receptor in respiration is							
	gymnosperm		77.	(a) CO <sub>2</sub>	(b) O <sub>2</sub>					
	(a) Mango	(b) Walnut		(c) H <sub>2</sub>	(d) NADH					
	(c) Funaria	(d) Chilgoza								
			78.	Diadelphous condition						
66.	Mycorrhiza helps in			(a) rosaceae	(b) papilionaceae					
	(a) respiration (b) water absorption			(c) leguminosae	(d) cucurbitaceae					
	(c) nutrient absorption		79.	Which of the following	algae is parasitic?					
	(d) phosphate absorpt			(a) Nostoc	(b) Rhodomenia					
				(c) Cephaleuros	(d) Polysiphonia					
67.	Bracts enclosing a d	cluster of flowers are								
	known as		80.	Glycolysis occurs in						
	(a) bracteate	(b) involucre		(a) grana	(b) stroma					
	(c) petaloid	(d) polysepalous		(c) cytosol	(d) mitochondria					
68.	In Funaria the number	r of peristomial teeth is	81.	Nucleosides have						
00.	(a) 6	(b) 10	01.	(a) purine + pyrimidine						
	(c) 16	(d) 32		(b) purine + pyrimidine (b) purine or pyrimidine + sugar						
			(c) purine + sugar + phosphate							
69.	The lateral roots origin	nate from		(d) purine + pyrimidine	e + phosphate					
	(a) exodermis	(b) endodermis								
	(c) pericycle	(d) vascular bundles	82.	Cladodes are found in						
				(a) Asparagus	(b) Opuntia					
70.	Role of calyx and corol			(c) Parkmsonia	(d) Psidium guajava					
	(a) promotory	(b) ineffective								

83.	R.Q. (respiratory quotient) is less than 1 in											
	(a) fat	(b) glucose	93.	Ribosomes are part	icles about 200Å units in							
	(c) fructose	(d) organic acid		diameter consisting of protein and RNA. The								
				percentage of protei	n and RNA respectively is:							
84.	Blue-green algae has	5		(a) 60% and 40%	(b) 40% and 60%							
	(a) chlorophyll b	(b) xanthophyll		(c) 80% and 20%	(d) 50% and 50%							
	(c) phycocyanin	(d) fucoxanthin										
			94.	Which of the follow	ing process takes place in							
85.	Connecting link bety	ween glycolysis and Krebs		mitochondria?								
	cycle is			(a) photolysis								
	(a) PGA	(b) ketone		(b) photophosphoryl	ation							
	(c) aldehyde	(d) acetyl-Co A		(c) carboxylation								
				(d) oxidative phosph	orylation							
86.	Which of the follow	ving fibres is not a plant										
	product?		95.	Fluid mosaic mode	I of cell membrane was							
	(a) flax	(b) cotton		given by								
	(c) hemp	(d) silk		(a) Beadle and Tatun	n							
				(b) Singer and Nicols	on							
87.	Which one of	the following is not		(c) Watson and Crick								
	commercially produc	ced by yeast?		(d) Robertson and Miller								
	(a) enzyme	(b) vitamin										
	(c) hormone	(d) riboflavin	96.	Late blight of potato	is caused by							
				(a) Rhizopus								
88.	Alcoholic fermentat	tion takes <mark>place in the</mark>		(b) Ustilago								
	presence of			(c) Altemnria solani								
	(a) maltase	(b) zvmnse		(d) Phytopthorn infestens								
	(c) amylase	(d) invertase										
			97.	Cell membrane is co								
89.		ollowing does not grow in		(a) protein	(b) phospholipid							
	artificial media?			(c) carbohydrate	(d) lipid and potein							
	(a) TMV	(b) bacteria										
	(c) yeast	(d) Rhizopus	98.	Binomial nomenclati								
				(a) Darwin	(b) Lamarck							
90.		e, which causes disease is		(c) Linnaeus	(d) Theophrastus							
	(a) virion	(b) viroid	00									
	(c) prion	(d) mycoplasma	99.	Genetic material of v	rus is							
04	Dlankarlana in famo	-12-		(a) RNA								
91.	Phytochrome is foun	ia in		(b) DNA								
	(a) algae			(c) carbohydrate	٨							
	(b) flowering plants			(d) either RNA or DN	А							
	(c) fungi (d)vascular cryptoga	mc	100	Suicidal bags are								
	(u)vascular cryptoga	ms	100.	Suicidal bags are (a) lysosomes	(b) golgi bodies							
92.	Replication of DNA to	akos placo durina		(c) ribosomes (d) chloroplast								
34.	(a) S-phase	(b) prophase		(c) Hbosoffies	(u) cilioropiast							
	(c) metnphase	(d) anaphase										
	(c) memphase	(a) anaphase										

## Answer – Key

1.	С	2.	а	3.	b	4.	d	5.	а	6.	d	7.	b	8.	a	9.	a	10.	b
11.	С	12.	a,b	13.	а	14.	a	15.	b	16.	b	17.	а	18.	d	19.	d	20.	а
21.	b	22.	С	23.	С	24.	С	25.	b	26.	d	27.	b	28.	d	29.	b	30.	С
31.	d	32.	а	33.	d	34.	a	35.	b	36.	d	37.	b	38.	b	39.	С	40.	d
41.	С	42.	d	43.	b	44.	d	45.	С	46.	d	47.	а	48.	С	49.	a	50.	С
51.	a	52.	a	53.	d	54.	a	55.	a	56.	С	57.	d	58.	a	59.	d	60.	d
61.	b	62.	d	63.	d	64.	a	65.	d	66.	С	67.	b	68.	d	69.	С	70.	b
71.	С	72.	d	73.	d	74.	С	75.	b	76.	a	77.	b	78.	b	79.	С	80.	С
81.	b	82.	а	83.	a	84.	С	85.	d	86.	d	87.	С	88.	b	89.	а	90.	b
91.	b	92.	a	93.	d	94.	d	95.	b	96.	d	97.	d	98.	С	99.	d	100.	a