1.	Basis of life are			(c) Mixed		(d) None of these				
	(a) nucleic acids	(b) proteins	11.	Pappus helps in dispe	ersal of	( )				
	(c) nucleoproteins	(d) amino acids		(a) Asteraceae		(b) Brassicaceae				
2.	Life span of parrot is			(c) Malvaceae		(d) Solanaceae				
	(a) 140 years	(b) 60 years	12.	In which of the f	following					
	(c) 80 years	(d) 40 years		present?						
3.	Theory of 'saltations' was gi	` · ·		(a) Psilophyta		(b) Ginkgopsida				
	(a) G Mendel	(b) Hugo de Vries		(c) Lycopodiophyta		(d) Bryophyta				
	(c) J B S Haldane	(d) HJ Miller	13	. Match the columns.		( ) 3 1 3				
4.	The animal group which	• •		Column I Column II						
	Galapagos island is			(Vitamins)	(Deficie	ency disease)				
	(a) Insects	(b) Protozoa		A. B, 1	. Infertilit	y				
	(c) Crustacea	(d) Amphibia		B. D 2	. Scurvy					
5.	Protists obtain their food as	` ' '		C. E 3	. Beri-be	ri				
	(a) photosynthesizers only			D. C 4	. Bonefo	rmity				
	(b) chemosynthesizers			Codes						
	(c) heterotrophs only			A B	GM	D				
	(d) Both (a) and (c)				1	2				
6.	Photosynthetic bacteria hav	ve l		(b) 1 2	3	4				
	(a) pigment system I	(b) pigment system II		(c) 4 3	1	2				
	(c) Both (a) and (b)			(d) 2 4	1	3				
	(d) some other kind of pigm	ents, B890	14.	One of the following	is a co	nnecting link between				
7.	Diatoms do not decay easily			protozoans and porife	erans					
	(a) they have siliceous walls			(a) Cliona		(b) Leucosolenia				
	(b) their body is impervious	to water		(c) Oscarella		(d) Proterospongia				
	(c) they are chitinous		15.	The chordate feat	ures s	shared by the non-				
	(d) they are abundant in sal	ine soil		chordates are						
8.	One of these protozoans			(a) bilateral symmetry	/					
	and sericulture	·		(b) triploblastic condi	tion an	nd bilateral symmetry				
	(a) Eimeria	(b) Ceratium		(c) metamerism						
	(c) Nosema	(d) Monocystis		(d) All of the above						
9.	Ergotamine tartarate extrac	eted from Claviceps, is	16.	Which of the follow	•	ons are necessary for				
	used for cure of			assembly of microtube	ules?					
	(a) bodyache	(b) headache		(a) Na+and K+		(b) Ca2+and CT				
	(c) fever			(c) Ca+and Mg2+		(d) Na+and Ca2+				
	(d) severe stomach pain		17.	IfT=40%, C=IO% ther	n G=?i	•				
10.	What type of sorus is preser	nt in Nephrolepis?		(a) 40%		(b) 10%				
	(a) Coenosorus	(b) Simple		(c) 91%		(d) 20%				

18.	Nickel contributes to the formation of one of the		(c) Datura	(d) Caesalpinia						
	following	28.	3. Inflorescence of Liliaceaeis							
	(a) urease (b) dehydrogenase		(a) actinomorphic (b) trimerous							
	(c) rubisco protein (d) nitrate reductase		(c) pentamerous	(d) imperfect						
19.	If a stock has 2n =48 and scion microspore	29.	Bone marrow is absent in							
	mother cell has 2n =24; then root cell and the		(a) reptilia	(b) amphibia						
	microspores will havechromosomes		(c) fishes	(d) birds						
	respectively.	30.	The property of semiperme	` '						
	(a) 12,48 (b) 48,12		(a) cell wall	(b) plasma membrane						
	(c) 24,12 (d) 24, 96		(c) mitochondria only	(d) None of the above						
20.	The percentage of cell surface that is	31.	Translocation of photosynthetic end products in							
	impenetrable for ions is	•	sieve tubes is							
	(a) 1% (b) 99.9%		(a) 3-5 mm/h	(b) 3-5 cm/h						
	(c) 90% (d) 73%		(c) 1-15 cm/h	(d) 60-100 cm/h						
21	A fertilized egg of a plant has 40 chromosomes.	32	Epidermis is specialized for							
۷.,	The number of chromosomes present in the	02.	(a) respiration (b) absorption							
	microspore mother cell is		(c) protection	(d) All of these						
	(a) 20 (b) 40	33	The pH of stomach is 1.6, t	` '						
	(c) 60 (d) 80	00.	digest protein?	nich which chizyinc will						
22	Match the columns.		(a) Trypsin	(b) Pepsin						
۷۷.	Column I Column II		(c) Amylase	(d) Erypsin						
	(D)	21	The normal type of embryo	· / • ·						
	(Scientists) (Discoveries)	34.	(a) 8-celled	(b) 7-celled						
	A. Stephan Hales 1. Importance of light and chlorophy II		(c) 6-celled	(d) 5-celled						
	B. Ingen Housz 2. Presence of chlorophyll in plants C. Von Mohl 3. Product of photosynthesis is starch	25	1 IVI	(u) 5-celled						
	D. Sach fl. Air and light control plant growth	33.	Embryo sac is	(b)microgamotophyto						
Co	de A B C D		(a) megaspore	(b)microgametophyte						
	(a) 4 1 2 3	26	(c) female gametophyte	(d) megasporangium						
	(b) 3 2 1 4	36.	31.	i present in the locius						
	(c) 2 3 4 1		are	/b \ le: [						
	(d) 4 3 2 1		(a) IgD	(b) IgE						
23.	Genotypic and phenotypic ratio 1:2:1 in the	27	(c) IgG	(d) IgM						
	offsprings explain the principle of	31.	For better survival of human Indian population,							
	(a) dominance		which is the most important step?							
	(b)blending inheritance		(a) Afforestation							
	(c) recessiveness		(b) Reduction in population density							
	(d) All of the above		(c) conservation of wild life including tribals							
24.	Satellite of chromosome is	00	(d) Both (a) and (c)							
	(a) rich in RNAand deficient in DNA	38.	Leukaemia is caused by	(1) 0 00						
	(b) rich in DNA and deficient in RNA		(a) Ca40	(b) Sr90						
	(c) rich in protein		(c) caesium	(d) iodine						
	(d) lacks DNA	39.	Ricewine is							
25	Sickle cell anaemia is example of		(a) beer	(b) wine						
_0.	(a) Sex-linked inheritance		(c) cider	(d) sake						
	(b) deficiency disease	40.	). An autoimmune disease is							
	(c) autosomal heritable disease		(a) B-lymphocytes induced							
	(d) infectious disease		(b) haemophillia							
26	Translocase is an enzyme required for		(c) myasthenia gravis							
۷٠.	(a) DNA replication (b) RNAsynthesis		(d) None of the above							
	(c) initiation of protein synthesis		Direction (41-60) In ea	-						
	(d) protein synthesis chain elongation		questions a statement of	_						
27	Feathery stigma belongs to		followed by a correspondin	g statement of Reason						
۷1.	(a) wheat (b) pea									
	(υ) μ <del>σ</del> α									

- just below it. Of the statements mark the correct answer as
- (a) If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion.
- (b) If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.
- 41. Assertion In alcoholic drink, the alcohol is converted into glucose in liver. Reason Liver cells are able to produce glucose from alcohol by back fermentations.
- 42. Assertion Wrapping food with newspaper can be dangerous.
  Reason It is rich in cadmium which is toxic to health.
- 43. Assertion Tertiary consumers are green plants.

  Reason Microconsumers break down the dead protoplasm into simpler ones. They are last in the sequence of a food chain.
- 44. Assertion In a Graafian follicle, the primary oocyte and the follicle cells may be considered sibling cells.

Reason Both are derived from oogonia.

modified leaves to avoid transpiration.

- 45. Assertion Old ladies are prone to osteoporesis.

  Reason Oestrogen also maintain calcium balance in the bones and blood.
- 46. Assertion Phylloclades are adaptation for xerophytic habitats.
  Reason Ruscus, Casuarina have reduced or
- 47. Assertion In the hydrophytes, the xylem is not differentiated into different types of cells. Reason Xylem provides support and helps in the conduction of water which are not very important in hydrophytes.
- 48. Assertion Gene expression is a molecular mechanism by which a gene expresses a phenotype.
  Reason Structural genes are controlled by control genes.

- 49. Assertion Neurohypophysis is situated in the cells of stomach.
  - Reason Neurohypophysis releases vasopressin and oxytocin.
- Assertion Cataract is the condition on which lens become completely opaque.
   Reason In this condition, a person can see only near objects.
- 51. Assertion Sinus venosus is a thin-walled sac with little muscular tissue in primitive heart. Reason It receives venous blood through the hepatic veins.
- 52. Assertion B-cells (Beta cells) account for about 80% of the total number of islet cells. Reason They secrete a hormone called thyroxine.
- 53. Assertion Munutropa grows in pine forests with the roots of pines. Reason Saprophytes obtain their nutrition from dead organic matter.
- 54. Assertion Outermost layer of the bone is a fibrous connective tissue. Reason Matrix of bone is composed of protein ossein.
- 55. Assertion Perennials live for many years.

  Reason Their life cycle do not end with seed production.
- 56. Assertion 'Reindeer moss' is used by reindeer, caribou and other animals as fodder.

Reason Reindeer moss is found in rainforests.

- 57. Assertion TMV is a rod-shaped virus.

  Reason It is made up of protein coat and RNA.
- 58. Assertion Japanese prepare a popular vegetable 'Kombu' prepared from Laminaria. Reason Laminaria is a fungus.
- 59. Assertion Mesophytes show well developed root system.

Reason Mesophytes depend on moderate supply of water which they draw from their root.

60. Assertion Lichens are the plants growing perched on other plants. Reason Lichens unitedly make association with algae and fungi and show mutualism.

## Answer- Kev

1. a	2.	е	3.	b	4.	d	5.	d	6.	d	7.	a	8.	е	9.	b	10. e	
11. a	12.	b	13.	а	14.	d	15.	d	16.	С	17.	b	18.	а	19.	b	20. b	
21. b	22.	а	23.	b	24.	а	25.	С	26.	d	27.	а	28.	b	29.	d	30. b	
31. d	32.	d	33.	b	34.	b	35.	С	36.	С	37.	d	38.	b	39.	d	40. c	
41. e	42.	а	43.	d	44.	а	45.	а	46.	а	47.	а	48.	С	49.	d	50. c	
51. a	52.	С	53.	b	54.	b	55.	а	56.	С	57.	а	58.	С	59.	а	60. d	