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- 1. A gene of operon which synthesizes a repressor protein is :
 - (a) promoter gene (b) structural gene
 - (c) operator gene (d) regulator gene
- Match the excretory organs listed under 2. column-I with the animals given under column-II. Choose the answer which gives the correct combination of alphabets of the two columns :

inplinetto or the trio e	Jidilito .
Column-I	Column-II
(Excretory organs)	(Animals)
A. Nephridia	p. Hydra
B. Malpighian tubules	q. Leech
C. Protonephridia	r. Shark
D. Kidneys	s. Flatworms
	t. Cockroach
(a) $A - q, B - t, C - s, I$	⊃ – r
(b) $A - s, B - q, C - p,$	D-t
(c) $A - t, B - q, C - s, I$	⊃ – r
(d) $A - q, B - s, C - t, 1$	D – p
Comopund saccular g	lands are :
(a) intestinal glands	1
(b) salivary glands	
(c) gastric glands	
(d) endocrine glands	
The law of limiting fa	ctor was proposed
by:	ictor was proposed
) D. Arnon
	l) R. Emerson
	556
Aerosome is a part of	
(a) foetus (b) Graafian follicle
(c) human ovum (c	l) human sperm
An example of Pactor	r offoct is :

3.

4.

5.

- An example of Pasteur effect is : 6.
 - (a) Penicillium (b) Pinnularia
 - (c) Saccharomyces (d) Nostoc

- 7. One of the following is called Sewall Wright effect :
 - (a) genetic drift (b) isolation (c) gene pool (d) gene flow
- 8. Match the types of cells listed under column-I with the secretions given under column-II. Choose the answer which gives the correct combination of alphabets of the two columns :

Column-I	Column-II
(Types of cells)	(Secretions)
A. Beta cells	p. Lysozyme
B. Mast cells	q. Mucus
C. Paneth cells	r. Histamine
D. Acinar cells	s. Insulin
	t. Pancreatic enzymes
(a) $A - s, B - q, C$	- p, D - t
(b) $A - t, B - q, C$	- r, D - s
(c) $A - s, B - r, C$	– p, D – t
(d) $A - q, B - r, C$	- p, D - t
TATE I CH CI	leasting to a second animal

- Which of the following is a mechanical 9. barrier used in birth control ?
 - (a) Tubectomy (b) Dalcon shield
 - (d) Diaphragm (c) vasectomy
- The gases used in the spark-discharge 10. apparatus were :
 - (a) H₂, CH₄ and NH₃
 - (b) CO, NH₃ and CH₄
 - (c) O₂, CO₂ and NH₃

 - (d) NH₃, CH₄ and O_2 The "power house" of cell is :
 - (a) mitochondria (b) lysosome
 - (d) ribosome
- (d) golgi complex

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11.

- The young one of cockroach is called : 12.
 - (a) caterpillar (b) nymph
 - (c) fingerling (d) maggot
- The yellow coloured milk secreted by 13. cattle soon after the birth of a calf is called :
 - (b) chyle (a) chyme
 - (d) colostrum (c) cholesterol
- 14. A bicollateral vascular bundle has the following arrangement of tissues :
 - (a) outer phloem \rightarrow outer xylem \rightarrow middle cambium \rightarrow inner xylem \rightarrow inner phloem
 - (b) outer cambium \rightarrow outer phloem \rightarrow middle xylem \rightarrow inner phloem \rightarrow inner cambium
 - (c) outer phloem \rightarrow outer cambium \rightarrow middle xylem \rightarrow inner cambium \rightarrow inner phloem

- (d) outer xylem \rightarrow outer cambium \rightarrow middle phloem \rightarrow inner cambium \rightarrow inner xylem
- 15. Match the branches of Biology given under column-I with the field of study listed under column-II; choose the the correct answer which gives combination of alphabets of the two columns :

Column-I	Column-II
(Branch of Biology)	(Field of Study)
A. Malacology	p. Reptiles
B. Pomology	q. Fungi
C. Mycology	r. Fruits
D. Ornithology	s. Molluscs
0.	t. Birds
(a) $A - s, B - r, C - q$	D – t
(b) $A - s, B - r, C - p$, D – t
(c) $A - p, B - r, C - q$	
(d) $A - t, B - s, C - q$	
Choose the cat fish fr	
(a) Cirrhina mrigala (0
(c) Labeo rohita	-
Identify the plasmid	
· ·	b) Hind II
	(d) pBR 322

16.

17.

Match the types of bacteria listed in 18. column-I with their activity given in column-II. Choose the correct

combination of alphabets of the two columns :

	columns.
	Column-I Column-II
	(Types of bacteria) (Activity)
	A. Streptomyces p. Food poisoning
	B. <i>Rhizobium</i> q. Source of
	antibiotics
	C. Nitrosomonas r. Nitrogen fixation
	D. Acetobacter s. Nitrification
	t. Vinegar synthesis
	(a) $A - q, B - r, C - p, D = t$
	(b) $A - q, B - r, C - s, D - t$
	(c) $A - s, B - t, C - p, D - r$
	(d) $A - t, B - p, C - r, D - s$
19.	ATP was discovered by :
	(a) Blackman (b) Bowman
	(c) Lipmann (d) Karl Lohman
20	
20.	DNA finger printing technique was first
	developed by :
	(a) Jeffreys, Wilson and Thien
	(b) Boysen and Jensen
	(c) Schleiden and Schwann
	(d) Edward and Steptoe
21.	Synthesis of testosterone by Leydig cells
	is stimulated by :
	(a) LTH (b) TSH
	(c) FSH (d) ICSH
22.	Which of the following statements is
	right?
	(a) Fronds are found in bryophytes
	(b) Multiciliate sperms are found in
	angiosperms
	(c) Diatoms produce basidiospores
	(d) Heterocysts are found in <i>Nostoc</i>
23.	The biogenetic law was proposed by :
	(a) F. Redi (b) Richter
	(c) Weismann (d) Haeckel
24.	Nodes of Ranvier are found in :
	(a) axon (b) sperm
	(c) muscle fibre (d) neuron
25.	
23.	Which of the following animals is
	protected in Kaziranga sanctuary in
	Assam?
	(a) Indian elephant
	(b) Indian rhinoceros
	(c) Indian lion
	(c) Indian lion (d) Indian bison

- The first antibiotic was discovered by : 26. (a) A. Flemming (b) W. Flemming
 - (c) R. Koch (d) Louis Pasteur
- A four chambered heart is not found in : 27.
 - (a) mammals (b) birds
 - (c) snake (d) crocodile
- 28. Balance theory of sex determination was proposed by :
 - (a) Calvin B. Bridges
 - (b) Strasburger
 - (c) T.H. Morgan
 - (d) Waldever.
- Elongation of a genetically dwarf plant is 29. possible by application of :
 - (a) cytokinin (b) ethylene
 - (c) abscisic acid (d) gibberellins
- 30. The primary visual area is located in : (a) temporal lobe (b) occipital lobe
 - (c) frontal lobe (d) parietal lobe
- 31. Respiratory quotient (RQ.) is represented by:

(a)
$$\frac{N_2}{O_2}$$
 (b) $\frac{CO_2}{O_2}$
(c) $\frac{O_2}{CO_2}$ (d) $\frac{C}{N}$

- Bacterial photosynthesis involves : 32. (a) both PS-I and PS-II
 - (b) either PS-I or PS-II
 - (c) PS-I only
 - (d) PS-II only
- 33. One of the following is not the types of blood groups or blood factors :
 - (a) Lewis and Duffy
 - (b) Buffs and Kips
 - (c) ABO and Rh
 - (d) Rh and MN
- 34. Gynaecomastia is the symptom of :
 - (a) Down syndrome
 - (b) SARS
 - (c) Turner's syndrome
 - (d) Klinefelter's syndrome
- 35. The term ecology was coined by :
 - (a) Reiter (b) Tansley
 - (c) E. Munch (d) Odum

- 36. Bamboo and grasses elongate by the activity of :
 - (a) secondary meristem
 - (b) lateral meristem
 - (c) apical meristem
 - (d) intercalary meristem
- 37. The example for trimerous, unisexual flower is :
 - (b) Hibiscus (a) Cocos nucifera
 - (c) Tamarind (d) Pea
- 38. The term species was coined by :
 - (a) Aristotle (b) Engler
 - (c) John Ray (d) Linnaeus
- 39. Match the Biological molecules listed under column-I with their biological functions given under column-II. Choose the answer which gives correct combination of alphabets of the two columns.
 - Column -I Column-II (Biological (Functions) molecules) A. Starch p. Protein synthesis
 - B. Haemoglobin q. Sex hormone
 - C. RNA r. Storage product
 - D. Steroid s. Transport of gases
 - (a) A s, B r, C p, D q
 - (b) A r, B s, C q, D p
 - (c) A r, B p, C s, D q
 - (d) A r, B s, C p, D q
- 40. One of the following is a disease of poultry:
 - (a) foot and mouth disease
 - (b) pebrine disease
 - (c) anthrax
 - (d) ranikhet disease
- 41. Coacervates were experimentally produced by :
 - (b) Jacob and Monod
 - (c) Fischer and Huxley
 - (d) Sidney Fox and Oparin
- The scientific name of zebu is : 42.
 - (a) Bos indicus (b) Bombyx mori
 - (c) Bubalus bubalus (d) Gallus domesticus

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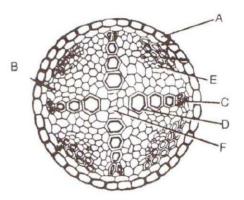
- - (a) Urey and Miller

- 43. Motor cells are found in :
 - (a) monocot leaf
 - (b) upper epidermis of monocot leaf
 - (c) brain
 - (d) spinal cord
- 44. These belong to the category of primary consumers :
 - (a) snakes and frogs
 - (b) water insects
 - (c) eagle and snakes
 - (d) insects and cattle
- 45. Bhopal gas tragedy of 1984 was caused by the leakage of gas :
 - (a) methyl isocyanate
 - (b) 2,4-dichlorophenoxy acetic acid
 - (c) ammonia
 - (d) hydrogen cyanide
- 46. Volkman's canals occur in :
 - (a) internal ear (b) liver
 - (c) cartilage (d) bone
- 47. The lacteals are found in :
 - (a) salivary gland (b) villi
 - (c) spleen (d) mammary gland
- 48. Match the theories given in column-I with the names of scientists listed in column-II. Choose the answer which gives the correct combination of the alphabets.

	Column-I		Column-II
	(Names of		(Name of
	theories)		scientists)
А.	Relay pump	p.	Stocking
	theory		
В.	Transpiration	q.	Sir J.C. Bose
	cohesion theory		
C.	Mass flow	r.	Godlewski
D.	Pulsation theory	s.	Dixon and Jolly
		t.	Ernst Munch
(a)) A – r, B – s, C – t	, D	- q
(b)	A - s, B - r, C - p	o, D	P−q
(C)	A - r, B - q, C - t	, D	- q
(d	A = a B = b C =	t T) - r

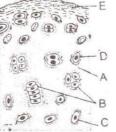
- (d) A q, B p, C t, D r
 49. The World Environment Day is celebrated on :
 - (a) 5th May (b) 6th August
 - (c) 5th June (d) 6th June
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- 50. One of the following is called pitcher plant :
 - (a) Nepenthes (b) Aristolochia
 - (c) Drosera (d) Utricularia
- 51. Choroid plexus is a network of :
 (a) capillaries
 (b) muscle fibres .
 - (c) nerves (d) lymph vessels
- 52. Chiropteriphily means :
 - (a) pollination by snails
 - (b) pollination by bats
 - (c) pollination by wind
 - (d) pollination by insects
- 53. In the diagram of T.S. of stele of dicot root, the different parts have been indicated by alphabets choose the answer in which these alphabets correctly match with the parts they indicate :

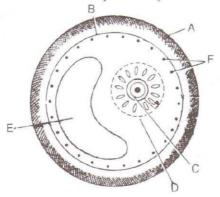


- (a) A Endodermis, B Conjuctive tissue, C – Metaxylem,
 - D Protoxylem, E Phloem, F Pith
- (b) A Endodermis, B Pith,
 - C Protoxylem, D Metaxylem,
 - E Phloem, F Conjuctive tissue
- (c) A Pericycle, B Conjuctive tissue, C – Metaxylem, D – Protoxylem, E – Phloem, F – Pith
- (d) A Endodermis, B Conjuctive tissue, C – Protoxylem, D – Metaxylem, E – Phloem, F – Pith
- 54. In the diagram of section of hyaline cartilage, the different parts have been indicated by alphabets; choose the answer in which these alphabets correctly match with the parts they indicate :





- (a) A Perichondrium; B Chondrocyte; C-Lacuna, D-Capsular matrix, E - Chondrin
- (b) A Capsular matrix, B – Chondrocyte, C - Lacuna, D - Perichondrium, E - Chondrin
- (c) A Chondrin, B – Chondrocyte, C-Lacuna, D-Capsular matrix, E – Perichondrium
- (d) A Chondrin, B – Lacuna, C – Chondrocyte, D – Capsular matrix, E - Perichondrium
- In the diagram of section of Graafian 55. follicle, different parts are indicated by alphabets; choose the answer in which these alphabets have been correctly matched with the parts they indicate :



- (a) A Theca externa, B Theca interna, C-Ovum, D=Cumulus oophorus, E – Antrum, F – Membrana granulosa
- (b) A Membrana granulosa, B = Thecaexterna, C-Ovum, D-Cumulus oophorus, E - Antrum, F - Theca interna

- (c) A Membrana granulosa, B Theca interna C-Ovum D-Cumulus E-Antrum, F – Theca oophorus, externa
- (d) A Theca externa, B Theca interna, C – Ovum, D – Membrana granulosa, E – Antrum, F – Cumulus oophorus
- 56. Murein is not found in the cell wall of : (b) Eubacteria (a) Nostoc
 - (c) Cyanobacteria (d) Diatoms
- Largest gametophyte is found in : 57.
 - (a) Angiosperm (b) Polytrichum
 - (c) Nephrolepis (d) Cycas
- Match the names of diseases listed under 58. column-I with the meanings given under column-II; choose the answer which gives the correct combination of alphabets of the two columns :

Column-I	Column-II
(Names of disease)	(Meanings)
A. Jaundice	p. Allergic inflammation of nose
B. Stenosis C. Rhinitis D. Paralysis	q. Loss of motor functions r. Heart valve defect s. Increase in bile pigment
	in the blood t. Septal defect of heart
(a) $A - q_{,B} -$	-
(b) A - s B -	p C = q D = r

(b) A - s, B - p, C - q, D - r

- (c) A s, B r, C p, D q
- (d) A s, B t, C p, D q
- 59. Ganong's respiroscope is used to demonstrate :
 - (a) production of carbon dioxide during aerobic respiration
 - (b) production of heat during aerobic respiration
 - (c) evolution of oxygen during photosynthesis
 - (d) evolution of carbon dioxide during fermentation
- 60. Balbiani rings are found in :
 - (a) all chromosomes
 - (b) Lampbrush chromosome
 - (c) dicot stems
 - (d) polytene chromosomes



Answer – Key

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