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Which of the following is abbreviated as ZIFT? (B) Zygote Intra Fallopian Transfer (A) Zygote Intra Fallopian Tube (D) Zygote Inter Fallopian Transfer (C) Zygote Inter Fallopian Tube An example for hormone releasing IUD is (D) Multiload 375x (C) Implant & (A) Lippes loop (B) LNG - 20 MTPs are considered relatively safe during (B) Second trimester (A) 180 days of pregnancy (D) 24 weeks of pregnancy (C) First trimester Which of the following statements is correct? (A) Sickle cell anaemia is a quantitative problem. (B) Thalassemia is a qualitative problem. (C) Female carrier for haemophilia may transmit the disease to sons. (D) Change in whole set of chromosomes is called aneuploidy. 'Gene-mapping' technology was developed by (A) Sturtvent (E) Mendel (B) Tschermak Find the correct statement. (1) Generally a gene regulates a trait, but sometimes one gene has effect on multiple traits. (2) The trait AB-blood group of man is regulated by one dominant allele and another recessive allele. Hence it is co-dominant. (A) Both Statements (1) and (2) are correct. (B) Statement (1) is correct. (C) Both the Statements are wrong. (D) Statement (2) is correct. From the following table, select the option that correctly characterizes various phases of menstrual cycle: Follicular phase Menstruation phase Luteal phase L.H. Surge Regeneration of (A) Menses endometrium Regression of corpus luteum Ovulation Matured follicle High level of progesterone Developing corpus Regeneration of endometrium luteum Follicle maturation Developing corpus luteum Menses



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	nomozygous dominant parent and a homozygous shows Mendelian inheritance pattern)
(A) Dominant parent trait appears in F ₁ ge and F ₂ generations.	neration and recessive parent trait appears in p
(B) Dominant parent trait appears in F ₁ ge	neration and recessive parent trait appears in F
generation. (C) Dominant parent trait appears in F₂ gen F₁ generation. ∠	eration and recessive parent trait appears only in
	& F ₂ generations, recessive parent trait appears
in only F ₂ generation.	
14. Histone proteins are positively charged beca	use they are rich in basic amino acid residues
(A) Arginine and Phenylalanine	(B) Arginine and Alanine
(C) Arginine and Proline	(D) Arginine and Lysine
45. Eukarvotic genes are managistronia but they	
Eukaryotic genes are monocistronic but they (A) Exons are interrupted by Introns.	
(C) Introns are interrupted with Mutons.	(B) they contain Exons only. (D) they contain Introns only.
16 The Lac-Operon model was elucidated by	
16 The Lac-Operon model was elucidated by (A) Hershey and Chase	de transition de la constantina della constantin
(C) Jacob and Crick	(B) Watson and Crick (D) Francois Jacob and Jaques Monad
17. Which of these is NOT an example for Adap	tive radiation ?
(A) Placental mammals	(B) Darwin's finches
(C) Long-necked Giraffe	(D) Australian marsupials
In a population of 800 rabbits showing Frecessive individuals was 0.16. What is the final (A) 0.84 (B) 0.4	100 0 0 0
(A) 0.64 (B) 0.4	(C) 0.36 (D) 0.48
19. In male heterogametic type of sex determina	tion
(A) Male parent produces dissimilar gamete	s. $0.0 + 9^2 = 0$
(B) Male parent produces similar gametes.	D2 + 89/7
(C) Males do not produce gametes.	$p^{2} + 8q^{2} + q^{2} = 0$ Hes. $800 + 8x800x03540363$
(D) Female parent produces dissimilar game	ites. 800 7 8
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0.16×40.16 Space For Ro	The Th
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1/20	Identify the symptoms of pneumonia.		
92	(A) Constinution Abdanial		
	(A) Constipation, Abdominal pain, cramp	s, blood clots	Property like
	(B) Difficulty in breathing, fever, chills, c	ough, headache	
	(C) High fever, weakness, stomach pain, I	loss of appetite	
	(D) Nasal congestion and discharge, coug	h, sore throat, headache	
(21	The variety of Oken Page Committee		ing insact pasts ?
1	The variety of Okra, <u>Pusa Sawani</u> is resista		ing meer hears :
	(A) Shoot & Fruit borer (C) Cereal leaf beetle	(B) Aphids	
	(c) cereal lear beene	(D) Jassids	
22.	With respect to Inbreeding, which among	de Callendar la set toro 2	
	With respect to Inbreeding, which among to (A) It helps in elimination of less desirable	ne following is not true t	
	(B) Inbreeding decreases homozygosity.	e genes.	
	(C) It helps to evolve a pure line in an ani	COST CONTRACTOR	
	(D) It helps in accumulation of superior ge	mai.	
	(=) It helps in accumulation of superior ge	enes.	
23.	Identify from the following a main of the	1111 11 6 -1	otice of size devotes additi
	Identify from the following a pair of better India.	yielding semi dwari vari	ettes of rice developed in
	(A) Jaya and Kalyan Sona	(B) Jaya and Ratna	
	(C) Kalyan Sona and Sonalika	(D) Sonalika and Ra	tna
		(D) Donanka and Ra	MIG
24.	In MoET technique fertilized eggs are tr following stage?		
	(A) 8-32 celled stage (B) 2-4 celled stag	e (C) 16-32 celled stag	ge (D) 8-16 celled stage
(25.)	Roquefort cheese is ripened by		
	(A) Virus (B) Bacterium	(C) Yeast 🗸	(D) Fungi
26.	Four students were assigned a science proj	ect to find out the pollution	on levels of lakes in their
	surrounding. After analysing the quality of		
	follows:		
	Which among the following water samples	is highly polluted?	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		(C) 0.16 mg/L	(B) 0.06 mg/L
			4
27.	The toxic substance 'haemozoin' responsit the following diseases?	ole for high fever and chi	ill, is released in which of
		(C) Typhoid	(D) Pneumonia
	(A) Malaria (B) Dengue	(C) Typhold	(Jo) i neumoma
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28. Which of these is NOT a method to make host cells 'competent' to take up DN (A) Biolistics (B) Micro-injection (C) Use of disarmed pathogen vectors (D) Elution	IA?
And Misses injection	
DY Flution	
29. Select the correct states of	
Select the correct statement from the following:	de of sene of
(A) The first step in PCR is heating which is used to separate both the stran	ids of gene of
Genetic engineering works only on animals and not yet successfully used	on plants.
(L(C) DNA from one organism will not band to DNA from other organism.	
(D) There are no risk factors associated with r-DNA technology.	
associated with r-DNA technology.	
30. Choose the incorrect statement with reference to Kangaroo rat.	
(A) uses minimal water to remove excretory products.	
(B) found in North American desert.	
J(C) eliminates dilute urine.	
(L(D) meets its water requirements through internal fat oxidation.	
and the oxidation	
31. Generally, bears avoid winter by undergoing	
(A) Agetivation (D) Di	ernation
32. Match Column-II with Column-II. Select the option with correct combination.	
Column-II Column-II	
Standing state p. Mass of living material at a given time.	
2. Pioneer species q. Amount of nutrients in the soil at a given time.	
Detritivores r. Species that invade a bare area.	
4. Standing crop s. Breakdown detritus into smaller particles.	
(A) 1-q, 2-r, 3-s, 4-p	
(B) 1-q, 2-r, 3-p, 4-sx	
(C) 1-p, 2-s, 3-r, 4-qt×	
(D) 1-p, 2-r, 3-s, 4-q	
33. PCR is used for	
(A) DNA digestion (B) DNA isolation	
(C) DNA amplification (D) DNA ligation	
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34.	The toxic heavy metals from various in a density	ndustries which cause w	ater pollution, normally has	ve
	(A) more than 7.5 g/cm ³	Of man dram &	alom ³	
	(C) more than 12.5 g/cm ³	(B) more than 5 (D) more than 1		
35.	Identify the correct option showing the to the total global warming.		different green house gas	es
	(A) CFC-6%, CO ₂ -60%, Methane-20%	6. N.O-14%		
	(B) CFC-14%, CO ₂ -60%, Methane-20	% N O 604		
-	(C) CFC-14%, CO ₂ -60%, Methane-6%	70, N ₂ O-0%.		
	(D) CEC 20% CO. CO.	o, N ₂ O-20%.		
	(D) CFC-20%, CO ₂ -60%, Methane-14	%, N ₂ O-6%.		
36.	A flower has 10 stamens each having bi	ilobed dithecous anther, grains would be produce	If each microsporangium had by the flower?	15
	(A) 800 (B) 200	(C) 1600	(D) 400	
37.	During transcription the DNA strand wi	ith $3' \rightarrow 5'$ polarity of th	e structural gene always ac	ts
	(A) Enzyme DNA dependent RNA pol directions.	lymerase always catalys	e polymerisation in both th	e L
1	B) Enzyme DNA dependent RNA p 5' → 3' direction.	polymerase always cata	lyse the polymerisation i	n
	(C) Nucleotides of DNA strand with 5'	→ 3' are transferred to n	nRNA. L	

Enzyme DNA dependent RNA polymerase always catalyse the polymerisation in 3' -> 5' direction.

38. According to David Tilman's long term ecosystem experiments, the total biomass in plots with more species shows,

- (A) Average variation from year-to-year.
- (B) Less variation from year-to-year.
- (C) No variation from year-to-year.
- (D) High variation from year-to-year.

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- 39. Identify the incorrect statement regarding the flow of energy between various components of the food chain.
 - (A) Green plants capture about 10% of the solar energy that falls on leaves.
 - (B) The amount of energy available at each trophic level is 10% of previous trophic level.
 - (C) Each trophic level loses some energy as heat to the environment.
 - (D) Energy flow is unidirectional.
- 40. Find out the correct match.

	Disease	Pathogen	Main organ affected
	Filariasis	Common round worm	Small intestine
18	Ringworm	Fungus	Skin
(C)	Dysentery	Protozoa	Liver 📈
(D)	Typhoid	Bacteria	Lungs 📈

41. Match the following columns and choose the correct option:

Column-I

- 1. Haemophilus influenzae
- 2. Entamoeba histolytica
- 3. Plasmodium falciparum
- 4. Wuchereria bancrofti
 - 1 2 3
- 1 2 3
- (B) o r s r
- (C) r p q s
- OF spq

Column-II

- . Malignant malaria
- q. Elephantiasis
- r. Pneumonia
- s. Amoebiasis

- 42. From the following tools / techniques of genetic engineering, identify those which are required for cloning a bacterial gene in animal cells and choose the correct option:
 - I. Endonuclease
 - III. A. tumefaciens
 - V. Gene gun :-
 - VII. Cellulase
 - (A) I, III, IV, V, VII
 - (C) II, III, IV, VI, VII, VIII

- II. Ligase ___
- IV. Microinjection-
- VI. Lysozyme
- VIII. Electrophoresis 📈
 - (B) II, III, V, VII, VIII
 - (D) T, IL, IV, VI, VIII

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43	Match the colum Column 1. Bryophyt 2. Gymnosp 3. Algae 4. Pteridoph 1 2 (A) q p (B) s r (C) q s (D) r p	a perm	p. Pin q. Ac r. Sp	ose the correct opt olumn-II (Example nus liantum hagnum tocarpus	ion from the following	
44.	Flame cells press (A) Respiration (B) Osmoregula (C) Respiration (D) Osmoregula	and Excretion tion and Circu and Osmorego	lation 🗸	nelminthes are spec	cialized to perform,	
45.	Identify the flora (A)	₊₃ , G ₍₃₎	7-74	g to potato family. (B) ϕ , $K_{(5)}$, $\hat{C}_{(5)}$ (D) ϕ , K_{10} , C_{10}		
46.	When the vascul bundle is called, (A) Endarch	ar cambium i		ween the xylem a	nd phloem, then the to	vascular
47.	The function of T (A) Transportation (B) Grinding of S (C) Increasing the C (D) Grinding of S	on soil particles e effective are	a of absorpti	on in the intestine		
48.	Select the correctl (A) Homo, sapi (B) Triticum, ac	ens :	Poales Sapindale			

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Diptera

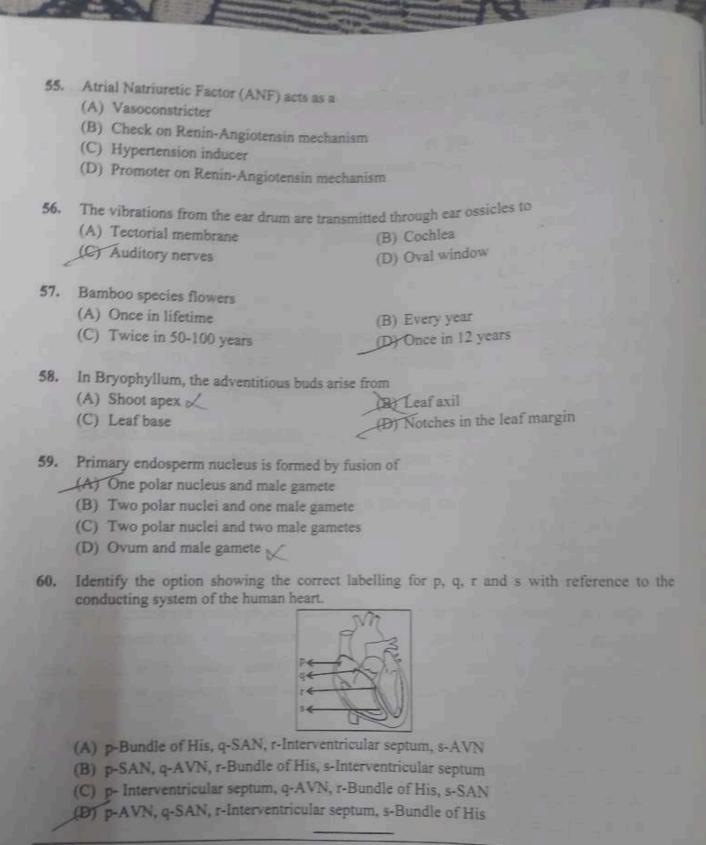
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Musa, domestica



	49. Match List-I and List-II with respect to proteins and their functions and select the
51	
VA	
1	Callagen p. Fights infectious ag-
	2 Trypsin q. Hormone
	Insulin r. Enzyme Antibody s. Intercellular ground substance
	- A - X - M - M - M - M - M - M - M - M - M
	(A) 1-s, 2-r, 3-q, 4-p
	(B) 1-q, 2-r, 3-q, 4-s
	(C) 1-s, 2-p, 3-r, 4-p
	(D) 1-s, 2-q, 3-r, 4-p
	50. The complex formed by a pair of synapsed homologous chromosomes is called,
	(A) Bivalent (B) Pentavalent (C) Univalent (D) Triad
	51. Match column-I with column-II. Select the option with correct combination.
	Column-II Column-II
	1. Hypertonic p. Two molecules move in the same direction across the membran
	Capillarity q. External solution is more concentrated than cell sap.
	Symport r. Water loss in the form of droplets.
	Guttation s. Ability of water to rise in thin tubes.
	(A) 1-q, 2-p, 3-s, 4-r
	(B) 1-q, 2-s, 3-r, 4-p
	(D) 1-q, 2-s, 3-p, 4-s
	(D) 1-4, 2-1, 3-p, 4-s
	52. Toxicity of which micronutrient in durant is decay to a
	(A) Manageness (D) 7
	(B) Zinc (C) Boron (D) Molybden
	63. Considering the stroke volume of an add a
/	Considering the stroke volume of an adult healthy human being is 70 mL, identical content in one hour from the following:
	(A) 302.4 Lit/hour (B) 504.0 Lit/hour (C) 50.40 Lit/hour (D) 30.24 Lit/h
	54 Francis a
	54. Function of contractile vacuole in Amoeba is
	Tamoleguiation and more
	(C) Digestion and excretion (B) Excretion and osmoregulation (D) Digestion and respiration
	D/CE
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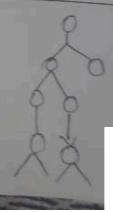




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