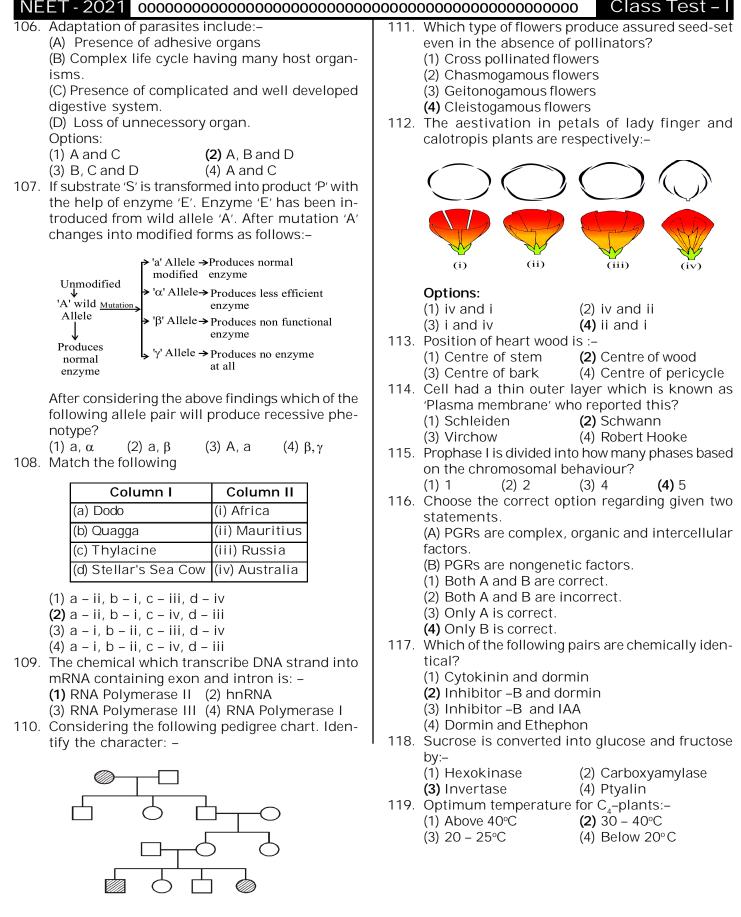
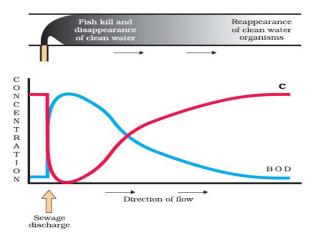
91.	In which of the following plant primary root is	99. Organisms having the potential for interbreed
,	short lived and new roots originate from the base	ing and producing fertile offspring is called:-
	of stem ?	(1) Class (2) Order (3) Genus (4) Species
	(1) Wheat (2) Mango	100. Which of the following is not an invasive alier species in the Indian context?
92.	(3) Rhizophora (4) Banyan tree Which of the following is incorrect match ?	(1) Lantana (2) Cynodon
72.	(1) <i>Albugo</i> – Parasitic fungi on mustard	(3) Parthenium (4) Eichhornia
	(2) <i>Neurospora</i> – Used in genetics work	101.
	(3) Penicillium – Source of antibiotics	Bases
	(4) Ustilago – Rust on wheat	$5' \frac{30}{5'' 150} \frac{90}{16} \frac{16}{36} \frac{36}{21} \frac{21}{10} \frac{9}{10} \frac{33}{30} 33$
93.	Match the following	E I E I E
	Column I Column II	
	(Name of organism) (Chromosome number in meiocyte)	How many amino acids long polypeptide chair
	(A) Garden pea (i) 24 (B) Maize (ii) 48	will be formed ?
	(C) Rice (iii) 14 (D) Potato (iv) 20	(1) 45 (2) 44 (3) 135 (4) 20
		102. What is the percentage of parental phenotype in F ₂ – generation for inheritance of skin colou
	(1) $A - (iii), B - (iv), C - (i), D - (ii).$	in human ?
	 (2) B - (iii), A - (iv), D - (i), C - (ii). (3) A - (iii), B - (iv), D - (i), C - (ii). 	(1) 5.25% (2) 2.25% (3) 3.125% (4) 6.125%
	(4) $C = (iii), D = (iv), A = (i), B = (ii).$	103. What is the true of Forest ecosystem?
94.	Activation of alcohol dehydrogenase and	(1) Primary consumers are least dependent or
	nitrogenase are respectively -	producers.
	(1) Zn, Mn (2) Zn, Mo (3) Mo, Zn (4)Mn, Zn	(2) Primary consumers are more in numbe than producers.
95.	How many of the following purpose carried tran- spiration?	(3) Producers are more than primary consum
	(A) Creates transpiration for absorption of	ers.
	water.	(4) Secondary consumers are the largest and
	(B) Supplies water for photosynthesis.	most powerful.
	(C) Transport minerals in every direction with	104. Select the mismatch:- (1) Hydrarch Succession – Water rich Condition
	a plant.	(2) Xerarch Succession – Xeric Condition
	(D) Cools leaf surface(E) Maintains the shape and structure of the	(3) Pioneer Community – Comes first
	plant	(4) Climax Community – Occur succesively
	(1) Four (2) Five (3) Three (4) Two	
96.	A good producer of butyric acid:-	5' 3'
	(1) Aspergillus (2) Pseudomonas	105.
~ 7	(3) Clostridium (4) Sacchromyces	•(D)
97.	Typical angiosperm anther is :- (1) Dithecous and Monosporangiate	
	(2) Monothecous and Bisporangiate	5' -(C)
	(3) Tetrasporangiate and Dithecous	3'
	(4) Bisporangiate and Dithecous	
98.	Which of the following is incorrect with respect	
	to crop, their variety and resistance to diseases/	3'
	pests?	5' 3'
	Resistance	
	<u>Crop</u> <u>Variety</u> <u>to</u>	Which one is correct for diagram?
	(1) Brassica Pusa Gaurav White rust	(1) A – strand is a leading strand.(2) D – strand is a tempelate strand.
		 (2) D – strand is a temperate strand. (3) B – Okazaki fragments is synthesized first.
	(2) Cowpea Pusa Komal Bacterial blight	(4) C – Okazaki fragments is synthesized first
	(3) Chilli Pusa Sadabahar TMV(4) Okra Pusa Sawani Fruit borer	



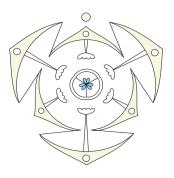
- (1) X linked dominant
- (2) Autosomal dominant
- (3) Autosomal recessive
- (4) X linked recessive

Class Test – 120. What is true for value 'C' in the given diagram? 129. Red tides are formed by:-(2) Giardia



- (1) There is a sharp decline in its value downstream from the point of sewge discharge.
- (2) It leads to rapid fish mortality.
- (3) It is highest in polluted water.
- (4) The value of DO increases.
- 121. Kyoto protocol was aimed to:-
 - (1) To reduce the emission greenhouse gases
 - (2) Limit the production of ODS
 - (3) Protect ozone layer
 - (4) Conserve biodiversity
- 122. Relationship between species richness and area was determined by:-
 - (1) Alexander Von Humboldt
 - (2) David Tilman
 - (3) Paul Ehrlich
 - (4) Edward Wilson
- 123. Which of the following is not present in Gymnosperms and Monocot respectively?
 - (1) Xylem fibres and phloem fibres
 - (2) Tracheids and Sieve tubes
 - (3) Xylem fibres and Phloem parenchyma
 - (4) Phloem fibres and xylem parenchyma
- 124. In Hb^A (Normal haemoglobin) peptide (β chain) the first and sixth amino acids are respectively. (1) Valine and Glutamic acid
 - (2) Glutamic acid and Valine
 - (3) Valine at both places
 - (4) Proline and glutamic acid
- 125. The coconut water from tender coconut is:-
 - (1) Made up of thousands of cells
 - (2) Free nuclear endosperm
 - (3) Completely consumed by embryo
 - (4) Cellular endosperm
- 126. Sporotic meiosis occurs in :-
- (3) Rose (1) Sequoia (2) Pinus (4) Adiantum 127. Branched stems possessing gymnosperm is:-
- (1) Cycas (2) Rose (4) Cedrus (3) Okra 128. Pyrenoids present in :-
 - (1) Peroxysome (2) Leucoplast
 - (3) Chloroplast

- (1) Red algae
 - (3) Gonyaulax (4) Desmids
- 130. Potato spindle tuber disease is related with:-
 - (1) Infectious Protein
 - (2) Infectious DNA
 - (3) Infectious Nucleoprotein
 - (4) Infectious RNA
- 131. Fat soluble substance is:-(1) Sugar (2) Anthocyanins (3) Proteins (4) Xanthophylls
- 132. Centrioles form:-
 - (1) The basal body of cilia or flagella in bacterial cells.
 - (2) The basal body of cilia or flagella in animal cells.
 - (3) The basal body of trichomes in plant cells.
 - (4) All are incorrect.
- 133. Choose the correct option for given diagram



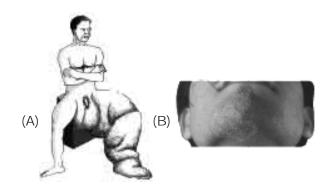
- (1) Androecium Polyandrous
- (2) Gynoecium Syncarpous, Superior ovary
- (3) Example Petunia, Ashwagandha
- (4) Raceme Inflorescence
- 134. Choose the correct match
 - (1) Muscidae Mango
 - (2) Anacardiaceae Tomato
 - (3) Poales Wheat
 - (4) Primata Snake
- 135. World summit on Sustainable Development (2002) was held in:-(1) Argentina
 - (2) Brazil
 - (4) South Africa
- (3) Sweden 136. Apoenzyme is :
 - (1) Always a Protein
 - (2) Often a metal
 - (3) Always an inorganic compound
 - (4) often a vitamin
- 137. Which of the following factor(s) does not affact enzyme activity?
 - (A) Temperature (B) pH
 - (C) Enzyme concentration
 - (D) Product concentation
 - (E) Substrate concentration
 - (F) Activation energy (1) Only C

(3) only D

- (2) both C and D
 - (4) Only F

(4) Chromoplast

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138. Which of the following groups consists of polysaccharides only?	(1) Liver fibrosis, liver cirrhosis, fatty liver,
(1) Sucrose, glucose and Fructose (2) Maltose, lactose and Fructose	hypoglycemia (2) Hypoglycemia, fatty liver, liver cirrhosis, liver fibrosis
(3) Glycogen, sucrose and maltose	(3) Fatty liver, hypoglycemia, liver fibrosis, liver
(4) Glycogen, cellulose and starch	cirrhosis
139. Restriction endonuclease cut the DNA molecule	(4) Fatty liver, liver cirrhosis, liver fibrosis,
at which site ?	hypoglycemia
(1) Sugar – phosphate back bone(2) Between two base pairs	147. Which of the following pairs, is corrtly matched
(3) Between sugar and Base	(1) Hinge joint – Between vertebrae
(4) Between phosphate and base	(2) Gliding joint – Between zygapophyses of the
140. Match the following columns :	successive vertebrae
Column – I Column – II	(3) Cartilaginous joint – Skull bones
(a) Golden rice (i) Eli lily	(4) Fibrous joint – Between phalanges
(b) PCR (ii) Herbert boyer	148. Read the following statements :
(c) Insulin (iii) kary mullis	(I) Heroin, is obtained by acetyl ion of Morphine
(d) Recombin (iv) Peter Bayer	(II) Cocaine is obtained from the latex of Papaver
(1) a - iv, b - iii, c - i, d - ii	somniferum
(2) a – iv, b – iii, c – ii, d – i	(III) Dopamine is excitatory neurotransmitter
(3) a - iii, b - iv, c - i, d - ii	(IV) Morphine is an effective sedative and Pain
(4) a - iii, b - iv, c - ii, d - i	killer.
141. Which of the following junctions help to stop	Choose the not incorrect statements :
substances from leaking across a tissue ?	(1) I and II (2) II and III
(1) Adhering junction (2) Gap junction	(3) III and IV (4) I and IV
(3) Tight Junction (4) Both (1) and (2)	149. People shown in the pictures are affected by
142. The given figure is actin filaments. Identify A,B	certain diseases. Identify the correct options
and C	about the these diseases



(1) A – caused by Wuchereria boncrofti and w. malayi, B – caused by Epidermophyton and Microsporum

(2) A - Elephantiasis, B - Ringworm

(3) B – Caused by fungi , A – caused by Nematode (4) All of the above

150. Side – effect of use of anabolic steroids in female include –

(i) Masculinisation (ii) Premature baldness

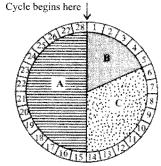
- (iii) Breast enlargement (iv) Deepening of voice(v) Abnormal menstrual cycle
- (vi) Depression
- (1) i, ii, iv, v and vi (2) i, ii, v and vi
- (3) i, iv, v and vi (4) i, iii, iv, v and vi
- 151. Jaundice is a disorder of
 - (1) Skin and eyes
 - (2) Digestive system
 - (3) Excretory system
 - (4) Respiratory sysem

- gene transfer in Plants : (1) Agrobacterium tumefaciens
 - (2) Gene gun method
 - (3) Biolistic method
 - (4) Electroporation
- 144. Which of the two parts in cockroach are fundamentaly similar in function ?

(1) A – Tropomyosin, B – Troponin, C – F – actin
(2) A – Troponin, B – Myosin, C – F – Tropomyosin
(3) A – Troponin, B – Tropomyosin, C – F – Myosin
(4) A – Troponin, B – Tropomyosin, C – F – actin
143. Which of the following is not a direct method of

- (1) Anal style and labrum
- (2) Maxillae and anal cerci
- (3) Maxillae and legs
- (4) Mandibles and gizzard
- 145. Function of long bones in adult mammals is to provide :
 - (1) Support only
 - (2) Support and produce RBCs only
 - (3) Support and produce WBCs only
 - (4) Support and produce RBCs and WBCs
- 146. Long term use of alcohol by any person leads to following abnormalities in order :

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152. Read the following statements.	157. Consider the following four statements A, B, C
A. Thiamine deficiency results in beri – beri	and D and state whether they are true (T) or false
causing neuritis, muscle degeneration and	(F)
anorexia	(A) An excessive loss of fluid from body stimulates
B. Microcytic anaemia is due to iron deficiency	the osmoreceptors which stimulates hypothalamus
C. All digestive enzymes belong to hydrolase	to release antidiuretic hormone (ADH) or
class	vasopression from the neurophypophysis
D. Pepsin converts proteins into proteoses and	(B) Rennin converts angiotensinogen to
peptones	angiotensin I
Choose the correct option.	(C) Aldosterone causes reabsorption of Na ⁺ ion
(1) All are correct	and water from proximal parts of the tubule
(2) Only B, C & D are correct	(D) Water reabsorption is minimum at proximal convoluted tubule.
(3) Only A, C and D are correct (4) Only A & D are correct	A B C D
153. Gross caloric value of carbohydrates, proteins	(1)T F F F
and fats is	(2) T T F F
(1) 4.1 kcal/g, 5.65 kcal/g and 9.45 kcal/g	(3) F F F T
respectively	(4) T F T F
(2) 5.65 kcal/g, 4.1 kcal/g and 9.45 kcal/g	158. A special sensitive region called juxta glomerular
respectively	apparatus (JGA) is formed by certain cells of
(3) 5.0 kcal/g, 4.68 kcal/g and 9.0 kcal/g	(A) Distal convoluted tubule
respectively	(B) Afferent arteriole
(4) 4.0 kcal/g, 6.7 kcal/g and 8.0 kcal/g	(C) Efferent arteriole
respectively	(1) A, B & C (2) A only
154. Total volume of air a person can expire after a	(3) A & B (4) B & C
normal inspiration ?	159. The female external genitalia include
(1) $TV + ERV$ (2) $TV \text{ only}$	(i) Ovary (ii) Mammary gland
(3) TV + IRV (4) TV + IRV + ERV 155. Following is a diagrammatic presentation of a	(iii) Mons pubis (iv) Clitoris
standard ECG.	(v) Labia majora (1) (i) and (ii) (2) (ii) and (iii)
	(1) (i) and (ii) (2) (ii) and (iii) (3) (iii), (iv) and (v) (4) (ii), (iii) and (v)
R	160. The given figure shows the schematic
⊳ /\ т	representation of a menstrual cycle in human
t_q/s	females. Identify the three phases (A, B, C) of
(1) P – wave represents repolarisation of atria	menstrual cycle.
(2) ORS complex represents depolarisation of left	
ventricle only	Cycle begins here
(2) The end of T were marke the end of	



A	В	С
1. Proliferative phase	Menstrual phase	Secretory phase
2. Menstrual phase	Proliferative phase	Secretory phase
 Secretory phase 	Menstrual phase	Proliferative phase
4. Menstrual phase	Secretory phase	Proliferative phase

	WBC	Percentage	Function
(1)	Eosinophils	2 – 3 %	Resist infections and also associated with allergic reactions
(2)	Neutrophils	60-65 %	Phagocytic cells
(3)	Basophils	0.5 – 1%	Secrete histamine, serotonin and heparin
(4)	Monocytes	6 - 8%	Produce antibodies

(3) The end of T - wave marks the end of

(4) By counting QRS complexes, one can determine

How many of the given statements is /are correct?

156. Which of the following is incorrect match w.r.t. type of WBC, its percentage of total WBC count

(2) Two

(4) One

ventricular systole

and its function?

(1) Four(3) Three

the breathing rate of a person

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161. Which of the following statements are correct	(1) (ii) and (iii) both (2) (ii), (iii) and (iv) both
?	(3) (iii) and (iv) both (4) only (iv)
(i) MTP was legalised in 1972	167. How many statements are correct?
(ii) Inability to conceive or produce children	(i) Dendrites contains Nissl's granules
even after two years of unprotected sexual	(ii)Dendrites transmit impulse towards the cell
cohabitation is called infertility	body
(iii) Surgical method of contraception prevents	(iii) The proximal end of axon is branched
gamete fusion	(iv) Synaptic knob possess synaptic vesicles
(iv) MTPs are relatively safe up to 12 weeks of	containing neurotransmitters.
pregnancy	(1) One (2) Two
(1) (i), (ii) and (iv) (2) (ii), (iii) and (iv)	(3) Three (4) All of these
(3) (iii) and (iv) (4) (i) and (iii)	168. 25. Given mechanism of hormonal action for
162. Consider the following statements and select	which types of hormones A and B represents :
the option stating which ones are true (T) and	
which ones are false (F).	Hormone
(i) There are many side effects of tubectomy and	Receptor
vasectomy	CALCER CONTRACTOR
(ii) Purpose of tubectomy is to prevent egg	Response 1
formation	
(iii) Contraceptive oral pills help in birth control	A
by preventing ovulation	I server a U i U i server seguratione
(iv) Genital warts is sexually transmitted disease	
caused by herps virus.	
(v) In India, there is rapid decline in infant	◆ Physiological responses (e.g., ovarian growth)
mortality rate and MMR.	
(i) (ii) (iii) (iv) (v)	(1) Proteineaus hormone – A – Generation of
	second messenger, B – Biochemical responses
(2) F F F T T (3) T T F F	(2) Proteineaus hormone – A – Cyclic AMP or
	calcium, B – Biochemical responses
	(3) Steroid hormone – A –Generation of second
163. Oral contraceptive are prescribed in females to check	messenger, B – Biochemical responses
(1) Ovulation (2) Fertilization	(4) (1) and (2) both are correct
(3) Implantation	169. Match the columns :
(4) Entry of sperms in vagina	Column I Column – II
	(Hormones) (Target glands)
164. Select the mismatched pair :	(A) Hypothalamic hormones (i) Adrenal
(1) Lamarck – Species are not immutable(2) Allopatric – Separate by space	(B) Thyrotropin (TSH) (ii) Gonads
(3) Darwin finches – Like Galapagos	(C) Corticotropin (ACTH) (iii) Pituitary
(4) Hugo de Vries – Evolution is discontinuous	gland
165. Which of the following statements is incorrect?	(D) Gonadotropins (LH, FSH) (iv) Pineal
(1) Jawless fish probably evolved around 480 mya	(E) Melanotropin (MSH) (v) Thyroid
(2) Tyrannosaurus rex was the biggest dinosour,	(1) (A) - (i), (B) - (ii), (C) - (iii), (D) - (iv), (E) - (v)
about 20 feet in height and had huge fearsome	(2) (A) – (iii), (B) – (v), (C) – (i), (D) – (iv), (E) – (ii)
dagger – like teeth	(3) (A) – (iii), (B) – (v), (C) – (i), (D) – (ii), (E) – (iv)
(3) About 15 mya, primates called Dryopithecus	(4) (A) – (ii), (B) – (iii), (C) – (i), (D) – (v), (E) – (iv)
and Ramapithecus existed	170. Adrenal cortex can be divided into 3 layers,
(4) Australopithecus with a brain size of 1400 cc	called (i) (inner layer),(ii)
lived in East and Central Asia between 1,00,000	(midle layer) and (iii) (outer layer)
and 40, 000 years back.	(1) (i) – Zona glomerulosa, (ii) – Zona
166. Select the incorrect statement :	fasciculata, (iii) – Zona reticularis
	(2) (i) –Zona reticularis, (ii) – Zona fasciculata,
(i) Outer ear consists of pinna and external	(iii) – Zona glomerulosa
auditory meatus (ii) Auditory meatus extends inwards to	(3) (i) – Zona fasciculata, (ii) – Zona
(ii) Auditory meatus extends inwards to	reticularis, (iii) – Zona glomerulosa
tympanic membrane (iii) Meatus posses sweat glands and fine hairs	(4) (i) – Zona fasciculata, (ii) – Zona
(iv) Tympanic membrane composed of	glomerulosa, (iii) – Zona reticularis

(iii) Meatus posses sweat glands and fine hairs(iv) Tympanic membrane composed of connective tissue covered with skin from

inside and mucus membrane outside

