89. What is 'X' in the following sequence of reaction?

$$X \xrightarrow{Na \atop \frac{1}{2}H_2} Y \xrightarrow{NaOH \atop CaO} CH_4$$

- 1) Methanol
- 2) Methanoic acid
- 3) Ethanoic acid
- 4) Methanal
- 90. Arrange the following alkenes in the descending order of their reactivity with HBr
 - a) ethene
- b) propene
- c) 2-Butene
- d) 2-methyl-2-Butene

- 1) a>b>c>d
- 2) d>c>b>a
- 3) d>c>a>b
- 4) a > b > d > c

BIOLOGY

- 91. Which of the following statements is wrong w.r.t. rules of nomenclature?
 - 1) The first word denoting the genus starts with a capital letter
 - 2) The specific epithet starts with a small letter
 - 3) Biological names are printed in italics to indicate their latin origin
 - 4) In the biological name Mangifera indica L., 'L' denotes the word 'Latin'
- 92. Amphibia belongs to division
 - 1) Tetrapoda
- 2) Pisces
- 3) Agnatha
- 4) Gnathostomata

- **93.** A suitable vector must have :
 - 1) more than one ori for replication
 - 2) many restriction sites of a restriction endonuclease
 - 3) selectable marker genes for identification
 - 4) all of the alnwe
- 94. In flatworms specialized cells are help in osmoregulation and excretion are
 - 1) Renetti cells

2) Flame cells

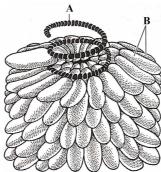
3) Nephriedia

- 4) Cholorogogen cells
- 95. The parasitic fungi on mustard is
 - 1) Albugo
- 2) Rhizopus
- 3) Mucor
- 4) Agaricus
- 96. Which connective tissue support frame work for epithelium
 - 1) Areolar tissue

2) Adipose tissue

3) Dense connective tissue

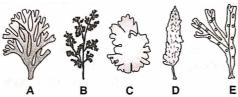
- 4) Specialized connective tissue
- 97. Identify the virus and name the structures A and B



- 1) TMV, A=ssRNA, B=capsid
- 2) TMV, A=dsRNA, B=capsid
- 3) TMV, A=capsid, B=ssRNA
- 4) TMV, A=capsid, B=dsRNA
- 98. In cockroach blood vessels are purely developed and open into
 - 1) Spongocoel
- 2) Spinal neurocoel
- 3) Blastocoel
- 4) Haemocoel
- 99. The artificial system of classification gives equal weightage to vegetative and sexual characters. This is not acceptable as
 - 1) Sexual characters are more easily affected by the environment than vegetative characters
 - 2) Vegetative characters are more easily affected by the environment than sexual characters
 - 3) Both vegetative and sexual characters are equally affected by the environment
 - 4) Neither vegetative nor sexual characters are affected by the environment

100. In frog undigested solid waste moves into the rectum and passes out through

- 2) Cloaca
- 3) Vulva
- 4) Urinogenital opening
- 101. In the diagram given below, some of the algae have been labelled as 'A', 'B', 'C', D and 'E'. These algae respectively identified as



- 1) Dictyota, Polysiphonia, Porphyra, Fucus and Laminaria
- 2) Porphyra, Dictyota, Laminaria, Fucus and Polysiphonia
- 3) Dictyota, Polysiphonia, Porphyra, Laminaria and Fucus
- 4) Fucus, Porphyra, Dictyota, Polysiphonia and Laminaria

102. Identify the incorrect match

Non - Chordata	Chordata
1) Notochord absent	Notochord present
2) Heart is ventral	Heart is dorsal
3) Ventral nerve cord	Dorsal nerve cord
4) Gill slits absent	Pharyngeal gill slits present

103. The margins of sepals or petals overlap one another but not in any particular direction in the flowers of

1) Cassia and gulmohar

2) China rose and cotton

3) Calotropis

4) Calotropis and lady's finger

104. Rennin is

- 1) Proteolytic enzyme 2) Milk protein
- 3) Lipolytic enzyme
- 4) Angiotensinogenase

105. Observe the floral formula given below

$$\%$$
 $\not\subseteq K_{(5)}C_{1+2+(2)}A_{(9)+1}G_{1}$

Identify the plants which posses the above floral formula

- 1) Lupinus, Pisum
- 2) Solanum, Tabacum 3) Lilium, Aloe
- 4) Brassica, Solanum

- 106. Gross calorific value of carbohydrates is
 - 1) 4.0 k.cal/g
- 2) 4.1 k.cal/g
- 3) 5.65 k.cal/g
- 4) 9.45 k.cal/g

107. Which of the following is conrid^d as molecular glue?

(a) Alkaline phosphatase

2) Resection endonuciease

3) DNA ligase

4) DNA pglymerase

108. Match the column-I and II and choose the correct combination from the option given

Column-I a) IC

Column-II

- 1) EC+IRV
- b) EC
- 2) RV+VC
- c) FRC
- 3) VC-ERV
- d) VC e) TLC
- 4) ERV+RV 5) TV+ERV
- 1) a-3, b-5, c-4, d-1, e-2

2) a-5, b-2, c-3, d-1, e-4

3) a-4, b-3, c-1, d-5, e-2

4) a-3, b-5, c-2, d-4, e-1

109. Cyclosporin-A an immuno-suppressive drug is produced by:

1) Aspergillus niger

2) Monascus purpureus

3) Penicillium notatum

4) Trichoderma polysporum

110. Find out correct match

	PO_2	PCO ₂		
	(In mm Hg)	(In mm Hg)		
Atmospheric air	a	b		
Alveoli	С	40		
Deoxygenated blood	40	d		
Oxygenated blood	e	40		
Tissue	f	45		

- 1) a-104, b-40, c-95, d-45, e-45, f-40
- 2) a-159, b-40, c-104, d-45, e-95, f-40
- 3) a-159, b-45, c-104, d-95, e-40, f-45
- 4) a-159, b-0.3, c-104, d-45, e-95, f-40

111. Which of the following statements are correct for sap wood?

- i) It does not help in water conduction
- ii) It is light coloured
- iii) It is also called alburnum
- iv) Its tracheary elements are filled with tannins, resins, oils, gums aromatic compounds and essential oils
- v) It is hard and durable

1) ii, iii

2) i, ii, iii

3) iv, v

4) iii, iv, v

112. Thrombocytes are cell fragments produced from specialized cells in bone marrow are called

1) Myeloblasts

2) Choanocytes

3) Megakaryocytes

4) Sclerocytes

113. According to the Jacob-Monod (lac operon) model of gene regulation, inducer substances in bacterial cells probably:

- 1) combine with operator regions, activating the associated operons
- 2) combine with structural genes, stimulating them to synthesize messenger RNA
- 3) combine with represser proteins, inactivating them
- 4) combine with promoter regions, activating RNA Polymerase
- 114. Closure of tricuspid and bicuspid valves due to

1) Ventricular pressure decrease

2) Ventricular pressure increase

3) Atrial pressure increase

4) 2 and 3

115. Mitochondria and chloroplast are

- A) Semi-autonomous organelles
- B) Formed by division of pre-existing organelles and they contain DNA but lack protein synthesis machinery

Which of the following options is correct?

1) Both (A) and (B) are correct

2) (B) is true but (A) is false

3) (A) is true but (B) is false

4) Both (A) and (B) are false

116. Conditional reabsorption of Na^+, H_2O takes place in the part of nephron is

1) PCT

2) Henle's loop

3) DCT

4) Collecting duct

117. Consider the following four statements (1-4) and select the options which includes all the correct ones only:

- a) Transforming principle explained by Griffith was later identified as DNA.
- b) Histones are rich in acidic amino acids lysine and arginine.
- c) In RNA, every nucleotide has OH group present at 2-position of ribose.
- d) In a dsDNA the two = chains have antiparallel polarity.

1) Statements (b), (c) and (d)

2) Statements (a) and (b)

3) Statements (b) and (d)

4) Statements (a), (c) and (d)

- 118. Dialysing unit (artificial kidney) contains fluid which is almost same as plasma except that it has
 - 1) High glucose
- 2) High urea
- 3) No urea
- 4) High uric acid
- 119. A segment of dsDNA has 120 adenine and 120 cytosine bases. The total number of nucleotides present in the segment is
 - 1) 120

- 2) 480
- 3) 60

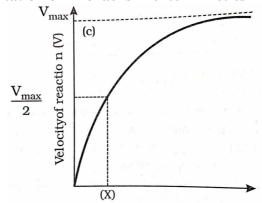
4) 240

- 120. Following statements related to contractile proteins
 - I) Actin is a polymer of monomeric G-actins
 - II) Meromyosin has globular head with short arm and tail
 - III) Myosin is monomeric protein with meromyosins
 - 1) I, II are correct

2) II, III are correct

3) I, III are correct

- 4) I, II, III are correct
- 121. In the graphical representation of Michaelis-Menten kinetics X represents



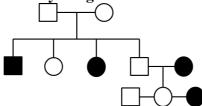
- 1) Concentration of active mass of the substrate at which the rate of reaction is $\frac{1}{2}V_{\max}$
- 2) Concentration of enzyme substrate complex at which the rate of reaction is $\frac{1}{2}V_{\text{max}}$
- 3) Concentration of product at which the rate of reaction is $V_{\rm max}$
- 4) Concentration of enzyme at which the rate of reaction is $\frac{1}{2}V_{\rm max}$
- 122. Identify the odd one w.r.t for skeletal system
 - 1) Patella ventrally covers knee
 - 2) Pubic symphysis ventrally by fibrous cartilage
 - $3) \ Scapula-Dorsally \ triangular \ flat \ bone$
 - 4) Ribs ventrally attached to thoracic vertebrae
- **123.** Test cross does not involve :
 - (A) crossing between two genotypes with dominant trait.
 - (B) crossing between two genotypes with recessive trait.
 - (C) crossing the F_1 hybrid with double recessive genotype.
 - (D) crossing between two F_1 hybrids.
 - 1) A, B and D
- 2) A, B, C and D
- 3) B, C and D
- 4) A, B and C
- 124. Sterile female with abnormally in XO condition found in
 - 1) Turner's syndrome

2) Marfan's syndrome

3) Klinefelter's syndrome

- 4) Cri-du-chat syndrome
- 125. Terminalisation starts during
 - 1) Diplotene
- 2) Pachytene
- 3) Leptotene
- 4) Zygotene

126. Study the given pedigree and identify the given trait



- 1) Autosomal dominant 2) X-linked dominant 3) Autosomal recessive 4) X-linked recessive
- 127. Inter flowering period, is' the period between two successive flowering phases. This inter flowering period is present in which of the following?
 - 1) Wheat and rice
 - 3) Mango and apple
- 128. Heterogametic male is found in all except 1) Mammals
 - 2) Drosophila
- 3) Birds

4) Radish and carrot

4) Grasshopper

- 129. Which one is possible for a fully turgid cell?
 - 1) DPD=10 atm, OP=15 atm, TP=5 atm
 - 3) DPD=5 atm, OP=7 atm, TP= 2 atm
- 2) DPD=0.2 atm, OP=0.7 atm, TP=0.5 atm
- 4) DPD=0.0 atm, OP=15 atm, TP=15 atm

2) Strobilanthus and Bambusa species

- 130. In DNA finger printing, gel-electrophoresis is used for
 - 1) Separation of DNA fragment
 - 3) Detection of hybridized DNA segment
- 2) Digestion of DNA fragment
- 4) Transfer of DNA fragments

- 131. Select the incorrect match
 - 1) Free living bacteria Azotobacter
 - 3) Symbiotic prokaryote Frankia
- 2) Symbiotic cyanobacteria *Nostoc*
- 4) Symbiotic cyanobacteria Azolla
- 132. Which of the following genes is defective in patient suffering from SCID
 - 1) Tyrosinase
 - 3) Homogentsic oxidase

- 2) Adinosine deaminase
- 4) Galactosidase

133. Match the column

Column-I

- A) Alcohol dehydrogenase
- B) Opening and closing of stomata
- C) PEP-case and RuBisCO
- D) stabilization of protein structure
- 1) A-i, B-iv, C-ii, D-iii
- 3) A-iii, B-ii, C-iv, D-i

Column-II

- i) Magnesium
- ii) Potassium
- iii) Sulphur
- iv) Zinc
- 2) A-i, B-ii, C-iii, D-iv
- 4) A-iv, B-ii, C-i, D-iii
- 134. Which of the following cells will undergo the second meiotic division
 - 1) Primary spermatocytes
 - 3) Secondary spermatocytes

- 2) Spermatids
- 4) Spermatogonia
- 135. To synthesize one molecule of glucose the requirements of CO₂: ATP: NADPH + H⁺ in C₃ plants and C₄ plants are

	C ₃ Plant	C ₄ Plant
	$CO_2:ATP:$	$CO_2:ATP:$
	$NADPH + H^{+}$	$NADPH + H^{+}$
1)	6:30:12	6:18:12
2)	1:5:2	1:3:2
3)	6:18:12	6:30:12
4)	1:3:2	1:5:2

- 136. Formating of animals within the same breed but having no common ancestors on either side of their pedigree upto 4-6 generations is called
 - 1) Cross breeding

2) In breeding

3) Out crossing

- 4) Interspecific hybridisation
- 137. The primary acceptor of CO₂ in C₃ cycle and C₄ cycle are respectively
 - 1) RuBP and PEP
- 2) PEP and RuBP
- 3) 3-PGA and PEP
- 4) RuBP and 3-PGA

- 138. Identify the incorrect for homologous organs
 - 1) Heart of vertebrates

- 2) Fore limbs of vertebrates
- 3) Brain of vertebrates
- 4) Potato and sweet potato
- 139. Select the wrong match w.r.t respiratory quotient (R.Q):
 - 1) Proteins = 0.9
- 2) Carbohydrates = 1
- 3) Tripalmitin = 4
- 4) Organic acid = >1
- 140. Scala tymphani, scala media and scala vestibule contains respectively
 - 1) Perilymph, Endolymph, Perilymph
- 2) Perilymph, Perilymph, Endolymph
- 3) Endolymph, Perilymph, Perilymph
- 4) Endolymph, Perilymph, Endolymph
- 141. Match the following columns

Column-I

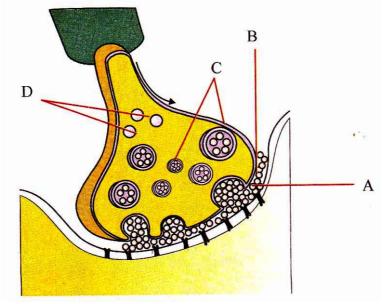
Column-II

- A) 2, 4 D
- i) Herring sperm DNA
- B) ABA
- ii) Bolting
- C) Ethylene
- iii) Stomatal closure
- D) GAe) Cytokinins
- iv) Weed-free lawnsv) Ripening of fruits
- 1) A-iv, B-iii, C-v, D-ii, E-i

2) A-v, B-iii, C-iv, D-ii, E-i

3) A-v, B-i, C-iv, D-iii, E-ii

- 4) A-v, B-iii, C-ii, D-i, E-iv
- 142. A diagram showing axon terminal and synapse is given. Identify correctly at least two of A to D.



- 1) A-receptor, C-synaptic vasicles
- 2) B-synaptic connection, D-K⁺
- 3) A-neuro transmitter, B-synaptic cleft
- 4) C-neurotransmitter, B-Ca⁺²

- 143. Natural auxins are
 - 1) IAA
- 2) IBA
- 3) Both (1) and (2)
- 4) 2,4-D
- 144. Statement-I: In neurons, the action potential is generated by influx of sodium ions Statement-II: Efflux of potassium ions causes depolarisation
 - 1) Statement-I and Statement-II are correct
 - 2) Statement-I is correct and Statement-II is incorrect
 - 3) Statement-I is incorrect and Statement-II is correct
 - 4) Statement-I and Statement-II are incorrect
- 145. A few statements with regard to sexual reproduction are given below
 - i) Sexual reproduction does not always require two individuals
 - ii) Sexual reproduction generally involves gametic fusion
 - iii) Meiosis never occurs during sexual reproduction
 - iv) External fertilization is a rule during sexual reproduction

Choose the correct statements from the options below

- 1) i and iv
- 2) i and ii
- 3) ii and iii
- 4) i and iv

- 146. The centres for hunger, thirst, satiety and temperature control are present in
 - 1) Epithalamus

2) Hypothalamus

3) Thalamus

- 4) Mid brain
- 147. The male gametes of rice plant have 12 chromosomes in their nucleus. The chromosome number in the female gamete, zygote and the cells of the seeding will be respectively
 - 1) 12, 24, 12

2) 24, 12, 12

3) 12, 24, 24

- 4) 24, 12, 24
- 148. Which of the following is secreted by anterior pituitary which promotes releases of adrenal cortex hormones?
 - 1) MSH
- 2) ACTH
- 3) Prolactin
- 4) LH

- 149. Which is wrongly matched
 - 1) Agave Bubils

2) Penicillium – Conidia

3) Water Hyacinth – Runner

- 4) Bryophyllum Leaf buds
- 150. A-diseases which is due to hyperthyroidism, characterized by enlargement of thyroid gland, protrusion of eye ball, increases BMR and weight loss is called
 - 1) Exophthalmic goitre 2) Simple goitre
- 3) Grave's disease
- 4) Both 1 and 3

- **151.** Which is right sequence of hydrosere?
 - 1) Phytoplankton —» Rooted submerged plants —» Rooted floating plants —» Reed swamp
 - 2) Phytoplankton —» Rooted floating plants —» Rooted submerged plants —» Reed swamp
 - 3) Phytoplankton —» Reed swamp —» Rooted submerged plants —» Rooted floating plants
 - 4) Reed swamp -» Phytoplankton —» Rooted submerged plants —» Floating plants
- 152. Seminal plasma is not contributed by
 - 1) Prostate gland

2) Seminal vesicle

3) Bulboure thal gland

- 4) Bartholin gland
- 153. Which of the following bryophyte was used in trans-shipment as packing material?
 - 1) Marchantia

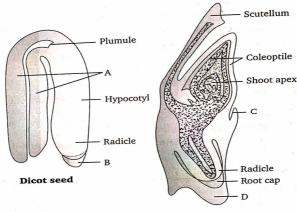
2) Sphagnum

3) Funaria

4) Polytrichum

- 154. Menrache is the state when
 - 1) First parturition takes place

- 2) First hymen break occurs
- 3) First ejaculation of semen takes place
- 4) First menstrual cycle occurs
- 155. Identify the structures marked as A, B, C, D in the diagrams of dicot and monocot seeds given below



- 1) A=Cotyledons, B=Epiblast, C=Root cap, D=Coleoptile
- 2) A=Cotyledons, B= Root cap, C= Epiblast, D= Coleorrhiza
- 3) A= Epiblast, B=Coleorrhiza, C= Coleoptile, D= Cotyledons
- 4) A=Cotyledons, B= Coleorrhiza, C=Root cap, D= Epiblast

151	1 / ·	.1. 41	C 11	•							
156.	6. Match the following I) IUD's A) Lippes loop										
	,					-					
	II) Vasectomy B) Males				4:						
	III) Saheli C) Oral contrace IV) Vaults D) Physical barri				_						
	17)	v auns A		C		sicai darrie	er.				
	1)	A I	B III		D IV						
	2)	III			I v I						
	3)	I	II		IV						
	3) 4)	I	IV	III	I V II						
157					anelle.		(b) C	omposed of	rihanuelai	c acid and p	rotoin
137.		Engine		_	anene.			-		eir subunit	
		_			related v	vith which		_		structures?	ussociation.
		ucleol		iics aiv		chondria) Ribosome		4) Nucleus	
158.				ufferir	,			*		,	then it can be
		ted by			8					r,	
	1) G	•			2) IUF		3) AI		4) ZIFT	
159.			v uni	que ga	,	ıld be pro		<i>'</i>	e independ	ent assortm	ent by an
						aBBCcDd		8	•		•
	1) 8			Ü	2) 4) 2		4) 16	
160.	In w	hich 1	more	indivi	duals acq	uire mean	chara	cter value i	n		
	1) St	tabilis	ing se	election	1		2) Directiona	al selection		
	3) D	isrupt	ive se	lection	1		4) Centrifugal selection				
161.	How	y man	y typ	es of g	enotypes	and pheno	types	respectively	are possi	ble in the Al	3O-blood
					an beings		• •		•		
	1) 4,	6			2) 6, 4		3) 3, 2		4) 2, 3	
162.	Whi	ch on	e is n	ost w	idely used	for remov	val of o	ver 99% pa	articulate i	matter prese	ent in the
	exha	ust fr	om a	thern	ıal power	plant		_		_	
	1) So	crubbe	er		_	_	2) Catalystic converter				
	3) E	lectros	static	precip	itator		4) Green mufflering				
163.					ng is incor	rect?					
					O		nds, be	come green	and synthe	esis food.	
	. ,	-				•		posite in su	•		
				_			-	s always sol			
	. ,			-				absent in D	•	d Primrose.	
							-			or and place	nta are
					ovules.		- 5 - 5		- J	F	
		and C			2) B on	lv	3) A, C and I)	4) E only	
164.	,			ncreas	*	•				· •	Oat successive
		Statement-I: Increase in the concentration of toxicant in the living organisms 0at successive trophic levels is called biomagnification									
	-	Statement-II: Biomagnification is well known for DDT and mercury									
		1) Statement-I and Statement-II are correct									
2) Statement-I is correct and Statement-II are incorrect											
	3) Statement-I is incorrect and Statement-II is correct										
						are incorre		1001			
165	,							ycle of Pteri	donhyta is:		
_55.		ameto			2) spore) gametes	-opiijuu is.	4) spores	
166	, ,							, •	al narke e	· •	voological
100.	How many are associated with ex-situ conservation national parks, seed banks, zoological parks, wild life sanctuary, wild life safari parks, sacred groove botanical gardens										
	1) 4 2) 5 3) 6 4) 3							,			
	1) +				4) 3		3	, 0		T) 3	

167. Match the following columns:

Column-I

- A) $\phi \times 174$ DNA
- B) λ phage DNA
- C) E.coli DNA
- D) Haploid content of human DNA
- 1) A-iv, B-iii, C-ii, D-i
- 3) A-ii, B-iii, C-iv, D-i

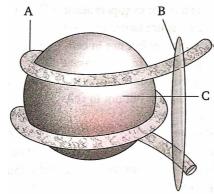
Column-II

- i) $3.3 \times 10^9 bp$
- ii) $4.6 \times 10^6 bp$
- iii) 48502 bp
- iv) 5386 bases
- 2) A-i, B-ii, C-iii, D-iv
- 4) A-i, B-iv, C-ii, D-iii

168. A stable community shows

- 1) Should not show too-much variation in productive from year to year
- 2) Should not be resilient to occasional disturbances
- 3) Should not be resistant to alien species invasion
- 4) Increased diversity contribute to lesser productivity

169. Identify A, B and C of nucleosome:



- 1) A=Histone core, B=DNA, C=H1
- 2) A=DNA, B=Histone octamer, C=H1
- 3) A=DNA, B=H1, C=Histone octamer
- 4) A=DNA, B= Histone core, C=H1

170. Which of the following climatic factors inhibit decomposition of detritus

- A) Low temperature
- B) Warm condition
- C) Aerobic condition
- D) Anaerobic condition

1) A C

- 2) A D
- 3) A B
- 4) A B C D

171. If Meselson and Stahl's experiment is continued for four generations in bacteria, the ratio of $15_N/15_N:15_N/14_N:14_N/14_N$ containing DNA in the fourth generation would be

- 2) 1:4:0
- 3)0:1:3
- 4)0:1:7

172. Third trophic level in an ecosystem are

- 1) Primary producer
- 2) Primary consumer 3) Primary carnivore
- 4) Secondary carnivore

173. A semi-dwarf variety of wheat is

- 1) Sonalika
- 2) IR-8
- 3) Triticum
- 4) Jaya

174. Which of the following is a set of bacterial disease?

- 1) Cholera, Typhoid and Mumps
- 2) Diphtheria, Leprosy and Plague
- 3) Malaria, Mumps and Poliomyelitis
- 4) Tetanus, Tuberculosis and Measles
- 175. Phycocolloids are the substances which having capacity to hold water are mainly obtain from:
 - 1) Chlorophyceae
- 2) Cyanophyceae
- 3) Rhodophyceae
- 4) All of these

176. Which one is a correct match?

1) Bhang – Analgesic

2) Cocaine – Opiate narcutics

3) Marphine - Hallucinogen

4) Barbiturate – Sleeping pill

177. Which of the following palindromic sequence is recognized by *Eco* RI?

- $_{1)}$ 3'CTT AAG $_{5'}$
- $_{2)}{\overset{3'}{\cap}}\mathsf{GGGCCC}_{5'}$
- $_{3)}$ $_{3'}$ TCA TGA $_{5'}$

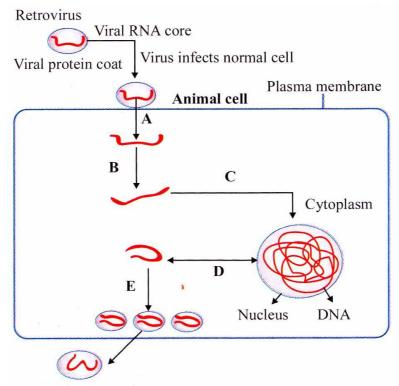
178. Identify the incorrect one

- 1) Physical barrier mucus membrane, skin
- 2) Physiological barrier- sweat, sebum, tear
- 3) Cytokine barrier inter, leukins, interforns
- 4) Cellular barriers T-cells, B-cells, Antibodies

179. Which of the following is correct?

- 1) A nematode *Meloiegyne incognitia* infects the roots of tobacco plants and causes a great reduction in yield
- 2) Nematode infection can be prevented in tobacco plants by RNAi technology
- 3) RNA interference takes place in all eukaryotic organisms as a method of cellular defense
- 4) All of the above

180. The figure given below shown made of action if AIDS virus. Identify steps A, B, C, D and E labelled in it



- 1) A-new viral DNA, B- viral RNA introduced into cell, C-viral DNA incorporated into host genome, D-viral DNA, E-new viruses produced
- 2) A- viral DNA incorporated into host genome, B-viral DNA, C- new viral RNA, D- viral RNA introduced, E-new viruses produced
- 3) A- viral RNA introduced, B-viral DNA, C-viral DNA incorporated into host genome, D-new viral RNA, E-new viruses produced
- 4) A- new DNA introduced, B-viral RNA, C-viral RNA incorporated into host genome, D-new viral DNA, E-new viruses produced