

NEETUG-2018

NEETUG-2018 TEST PAPER WITH ANSWER & SOLUTION

BIOLOGY

		BIOL
ши Т	h xprimntal proc	of for smiconsrvative
	replication of DNA v	was first shown in a
	1 Fungus	2 Bactrium
	3 Plant	4 Virus
! "#	\$%&	
E%	Select the MM !L11~s	tat mnt:
	1 Franklin Stahl c	oind the trm "linkag".
	2 Punntt square v scientist.	was devlopd by a British
	3 Spliceosoms take	e part in translation.
	4 Transduction wa	s discovred by S. Altman.
! "#	\$%&	
LO	ffsts are producd	by
	1 Miotic divisions	2 Mitotic divisions
	3 Parthenocarpy	4 Parthenognsis
! "#	\$%&	
LI W	hich of the following	pairs in # LI]\$%&matched?
	1 Starch synthesis	in pa : Multiple alleles
	2 ABO blood group	ping : Co-dominanc
	3 XO typ søletrn	nination : Grasshoppr
	4 T.H. Morgan	: Linkag
! "#	\$1]&	6
II]	Which of the follow life-tim?	ving flowrs only one in its
	1 Bamboo spcies	2 Jackfruit
	3 Mango	4 Papaya
! "#	\$11&	
LI*	Select the MM !L11~n	natch:
	1 Alec Jeffreys	- Streptococcus
		pnumoniae
	2 Alfred Hrshey	and – TMV

Martha Chas

and F. Stahl

! "# \$&

18

Jacqus Monod

Matthew Mslson – Pisum sativum

Francois Jacob and – Lac opron

```
L1+ Which of the following has provd helpful in
      presrving pollen as fossils?
      1 Pollenkitt
                              2 Cellulosic intin
      3 Oil contnt
                              4 Sporopollenin
! "# $&
L8 Stomatal movmnt is not affetd by
      1 Temprature
                              2 Light
      30 2 concntration
                              4 CO 2 concntration
! "# $ ' &
      The stag during which sparation of the paired
LILI
      homologous chromosoms begins is
      1 Pachytn
                              2 Diplotn
      3 Diakinsis
                              4 Zygotn
! "# $%&
[1] -- The two functional groups charactristic of sugars
      1 hydroxyl and mthyl
        carbonyl and mthyl
      3 carbonyl and phosphat
         carbonyl and hydroxyl
LI-LI Which of the following is $LI]ta product of light
      reaction of photosynthesis?
      1 ATP
                              2 NADH
      3 NADPH
                              4 Oxygn
! "# $%&
LI-% Stomata in grass leaf are
      1 Dumb-bell shapd
                              2 Kidny shapd
      3 Rectangular
                              4 Barrel shapd
! "# $I]&
E1- Which among the following is $LI]ta prokaryot?
      1 Saccharomycs
                              2 Mycobacterium
      3 Nostoc
                              4 Oscillatoria
! "# $I1&
E1- Which of the following is tru for nucleolus?
      1Largr nucleoli are presnt in dividing clls.
         It is a m mbran-bound structure.
         It takes part in spindle formation.
         It is a site for active ribosomal RNA synthesis.
```

! "# \$&



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CODE - PP

105 The Golgi complex participats in

- 1 Fatty acid breakdown
- 2 Formation of scretory vsicles
- 3 Respiration in bactria
- 4 Activation of amino acid

Ans 2

1 In stratosphere which of the following elemnt acts as a catalyst in degradation of ozon a releas of molecular oxygn?

> 1 Carbon 2 Cl 3 F 4 Oxygn

Ans 2

107 Which of the following is a scondary pollutant

Ans 4

108 Niche is

- 1 all the biological factors in the organism nvironmnt
- 2 the physical spac where an organism live
- 3 the rang of tmprature that the organism n ds to live
- 4 the functional role played by the organism where it lives

Ans 4

- 109 Natality refrs to
 - 1 Dath rat
 - 2 Birth rat
 - 3 Number of individuals leaving the habitat
 - 4 Number of individuals intring a habitat

Ans 2

110 What typ of cological pyramid would obtaind with the following data ?

Secondary consumr : 120 g Primary consumr : 60 g Primary producr : 10 g

- 1 Invrtd pyramid of biomass
- 2 Pyramid of nrgy
- 3 Upright pyramid of numbers
- 4 Upright pyramid of biomass

Ans 1

111 World Ozon Day is clebratd on

15 Jun 221 April 316 Septmber 422 April

Ans 3

112 Which of the following is commonly usd as a vctor for introducing a DNA fragmnt in human lymphocyts?

1 Retrovirus 2 Ti plasmid 3 **phag** 4 pBR 322

Ans 1

113 In India, the organisation responsible for assssing the safty of introducing gntically modified organisms for public us is

- 1 Indian Council of Mdical Resarch ICMR
- 2 Council for Scientific and Industrial Resarch CSIR
- 3 Resarch Committ on Gntic Manipulation RCGM
- 4 Gntic nginring Appraisal Committ GAC

Ans 4

114 A 'nw variety of rice was patntd by a foreign company though such varieties hav ben presnt in India for a long tim. This is relatd to

> 1 Co-667 2 Sharbati Sonora 3 Lerma Rojo 4 Basmati

Ans 4

115 Select the Match:

1 Ribozym - Nucleic acid 2 F₂× Recssive parent - Dihybrid cross 3 T.H. Morgan - Transduction 4 G. Mndel - Transformation

Ans 1

116 Us of bioresourcs by multinational companies and organisations without authorisation from the concrnd country and its poople is called

1 Bio-infring mnt 2 Biopiracy 3 Biodegradation 4 Bioxploitation

Ans 2

117 The correct order of stps in Polymras Chain Reaction PCR is

1 xtnsion Dnaturation Annaling

2 Annaling Extnsion Dnaturation

3 Dnaturation Extnsion Annaling

4 Dnaturation Annaling Extrision

Ans 4

118 Secondary xylem and phlom in dicot stm are producd by

1 Apical mristms 2 Vascular cambium 3 Phellogn 4 Axillary mrist m



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119 Pnumatophores occur in	126 Match the items given in Column I with thos in		
1 Halophyts	Column II and slect the coect option given		
2 Fre-floating hydrophyts	below:-		
3 Carnivorous plants	Column-I Column-II		
4 Submrgd hydrophyts	a Hrbarium i. It is a plac having a		
Ans 1	collection of presrvd		
120 Swt potato is a modified	plants and animals.		
1 St m 2 Advntitious root	b Ky ii. A list that numrats		
3 Tap root 4 Rhizom	mthodically all the		
Ans 2	spcies found in an area		
121 Which of the following statmnt is coect ?	with brief description		
1 Ovules are not nclosd by ovary wall in	aiding identification.		
gymnosprms	c Musum iii.Is a plac where		
2 Selaginella is heterosporous while Salvinia is	dried and pressd plant		
homosporous	speimns mountd on		
3 Horstails are gymnosprms	shets are kept.		
4 St ms are usually unbranched in both Cycas	d Catalogu iv. A booklet containing		
and <i>Cedrus</i>	a list of charactrs and		
Ans 1	their altrnats which		
122 Select the wrong stat mnt:	are helpful in		
1 Cell wall is presnt in m mbers of Fungi and	identification of various		
Planta	taxa.		
2 Mushrooms belong to Basidiomycts	a b c d		
3 Psudopodia are locomotory and fding	l i iv iii ii		
structures in Sporozoans	2 iii ii i iv		
4 Mitochondria are the powrhous of the cll	3 ii iv iii i		
in all kingdoms xcpt Monra	4 iii iv i ii		
Ans 3	Ans 4		
123 Casparian strips occur in	127 Wingd pollen grains are presnt in		
1 pidermis 2 Pricycle	1 Mustard 2 Cycas		
3 Cortx 4 ndodermis	3 Mango 4 Pinus		
Ans 4	Ans 4		
124 Plants having little or no scondary growth ar 1 Grasss	128 Aftr karyogamy followd by miosis, spores ar		
	producd xognously in		
2 Dciduous angiosprms3 Conifers	1 Nurospora 2 Alternaria		
	3 Agaricus 4 Saccharomycs		
4 Cycads	Ans 3		
Ans 1	129 What is the role of NAD in cllular respiration?		
125 Which on is wrongly matched?	1 It functions as an nzyms		
1 Uniflagllat gamts - Polysiphonia	2It functions as an lectron carrier		
2 Biflagllat zoospores - Brown alga	3 It is a nucleotide sourc for ATP synthesis		
3 Gmma cups - Marchantia	4It is the final lectron acceptor for anarobic		
4 Unicellular organism - <i>Chlorella</i>	respiration		
Ans 1 20	Ans 2		



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130 Oxygnis	\$L"producd	during photosynthesis	by
-------------	-------------	-----------------------	----

- Gren sulphur bactria
- 2 Nostoc
- 3 Cycas
- 4 Chara

Ans 1

131 Pollen grains can be stored for svral years in liquid nitrogn having a tmprature of

1 −120°C

 $2-80^{\circ}C$

3 -196°C

4 −160°C

Ans 3

132 In which of the following forms is iron absorbed by plants?

- 1 Frric
- 2 Frrous
- 3 Fre lemnt
- 4 Both frric and frrous

Ans 1

133 Double frtilization is

- 1 Fusion of two male gamts of a pollen tube with two diffrent ggs
- 2 Fusion of on male gamt with two polar nuclei
- 3 Fusion of two male gamts with on gg
- 4 Syngamy and triple fusio

Ans 4

134 Which of the following lemnts is responsible for maintaining turgor in clls ?

1 Magnsium

2 Sodium

3 Potassium

4 Calcium

Ans 3

135 Which on of the following plants shows a vry clos relationship with a spcies of moth, where nonof the two can complet its life cycle without the other?

1 Hydrilla

2 Yucca

3 Banana

A Viole

Ans 2

136 Hormons scretd by the placenta to maintain pregnancy ar

- 1 hCG hPL, progstogns prolactin
- 2 hCG hPL, strogns relaxin oxytocin
- 3 hCG hPL, progstogns strogns
- 4 hCG progstogns estrogns glucocorticoids

Ans 3

137 The contracptive 'SAHLI'

- blocks strogn recptors in th utrus prevnting ggs from gtting implantd.
- 2 increass the concn tration of strogn and prevnts ovulation in fmales
- 3 is an IUD.
- 4 is a post-coital contracptive.

Ans

- 138 The diffrenc betwn sprmiognsis and sprmiation is
 - 1 In sprmiognsis sprmatids are formd, while in sprmiation sprmatozoa are formd.
 - 2 In sprmiognsis sprmatozoa are formd, while in sprmiation sprmatids are formd.
 - 3 In sprmiognsis sprmatozoa from Sertoli clls are releasd into the cavity of s miniferous tubules while in sprmiation sprmatozoa are formd.
 - 4 In sprmiognsis sprmatozoa are formd, while in sprmiation sprmatozoa are releasd from Sertoli clls into the cavity of s miniferous tubules

Ans 4

139 The amnion of mammalian mbryo is derived from

- 1 ctoderm and msoderm
- 2 ndoderm and msoderm
- 3 msoderm and trophoblast
- 4 ctoderm and ndoderm

Ans 1

140 In a growing population of a country

- 1 pre-reproductive individuals are more than the reproductive individuals.
- 1 reproductive individuals are less than the postreproductive individuals.
- 3 reproductive and pre-reproductive individuals are qual in number.
- 4 pre-reproductive individuals are less than the reproductive individuals.

Ans 1

141 All of th following ar included in 'Ex-situ consrvation' *xcept*

1 Wildlife safari parks 2 Sacred grovs

3 Botanical gardens 4 Sed banks

Ans 2

142 Which part of poppy plant is usd to obtain the drug. "Smack" ?

1 Flowrs 2 Latx 3 Roots 4 Leavs

Ans 2

143 Match the items given in Column I with thos in Column II and slect the III !LI~option given below:

a. utrophication i. UV-B radiation
b. Sanitary landfill ii. Dforestation
c. Snow blindnss iii. Nutrient nrichmnt

d. Jhum cultivation iv. Wast disposal

	а	b	C	d
1	ii	i	iii	iv
2	i	iii	iv	iih
3	iii	iv	i	ii
4	i	ii	iv	iii

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144 Which on of the following population intraction	ns
is widely usd in mdical scienc for the production	on
of antibiotics?	

1 Commusalism 3 Parasitism 2 Mutualism 4 Amnsalism

Ans 4

145 Which of the following vnts dos *\$nt*occur in rough ndoplasmic reticulum?

- 1 Protin folding
- 2 Protin glycosylation
- 3 Cleavag of signal pptide
- 4 Phospholipid synthesis

Ans 4

146 Which of thes statunts is \$rn!r~?

- 1 nzyms of TCA cycle ar prsnt in mitochondrial matrix.
- 2 Glycolysis occurs in cytosol.
- 3 Glycolysis oprats as long as it is supplied with NAD that can pick up hydrogn atoms.
- 4 Oxidative phosphorylation takes plac in outr mitochondrial mmbran.

Ans 4

147 Many ribosoms may associat with a single mRNA to form multiple copies of a polypptide simultanously. Such strings of ribosoms are trmd as

- 1 Polysom
- 2 Polyhedral bodies
- 3 Plastidom
- 4 Nucleosom

Ans 1

148 Select the \$rn!r" match:

- Lampbrush Diplotn bivalents chromosoms
- 2 Allosoms Sex chromosoms
- 3 Submtacntric L-shapd chromososms chromosoms
- 4 Polytn Oocyts of amphibians chromosoms

Ans 4

149 Nissl bodies are mainly composd of

- 1 Protins and lipids
- 2 DNA and RNA
- 3 Nucleic acids and SER
- 4 Fre ribosoms and RER

Ans 4

150 Which of the following trms describe huma dentition?

- 1 Thecodont Diphyodont Homodont
- 2 Thecodont Diphyodont Htrodont
- 3 Pleurodont Monophyodont Homodont
- 4 Pleurodont Diphyodont Htrodont

Ans 2

151 Match the items given in Column I with thos in Column II and slect the rn!r'' option given below:

a. Glycosuria

Column II

- Accumulation of uric acid in joints
- b. Gout
- Mass of crystallised salts within the kidny
- c. Renal calculi
- iii. Inflammation in glomruli
- d. Glomrular nphritis
- iv. Presnc of glucos in urin

	a	b	C	d
1	iii	ii	iv	i
2	i	ii	iii	iv
3	ii	iii	i	iv
4	iv	i	ii	iii

Ans 4

152 Match the items given in Column I with thos Column II and slect the **rn!r"** option given below:

Column I Column II

Function Part of Excretory Syst m

a. Ultrafiltration i. Hnle's loop

b. Concntration ii. Uretr

of urin c. Transport of

iii. Urinary bladder

urin
. Storag of urin

iv. Malpighian corpuscle

v. Proximal convolutd tubule

	а	b	C	d
1	iv	V	ii	iii
2	iv	i	ii	iii
3	v	iv	i	ii
4	v	iv	i	iii

Ans 2

153 The similarity of bon structure in the forelimbs of many vrtbrats is an xample of

1 Homology

2 Analogy

3 Convrgnt volution 4 Adaptive radiation

Ans 1

154 Which of the following is *\$n"* at autoimmun diseas?

1 Psoriasis

2 Rheumatoid arthritis

3 Alzheimr's diseas

4 Vitiligo

Ans 3

155 Among the following sts of xamples for divergnt volution slect the *\$rn!r"* option:

- 1 Forelimbs of man bat and chetah
- 2 Hart of bat man and chetah
- 3 Brain of bat man and chetah
- 4 ye of octopus bat and man



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156	Which of the following charactristics represnt			
	'Inheritanc of blood groups' in humans?			

- a. Dominanc
- b. Co-dominanc
- c. Multiple dominanc
- d. Incomplet dominanc
 - . Polygnic inheritanc

1 b, c and 2 a b and c 3 b, d and 4 a c and

Ans 2

157 In which diseas dos mosquito transmitted pathogn caus chronic inflammation of lymphatic vssls?

1 lephantiasis 2 Ascariasis 3 Ringworm diseas 4 Amobiasis

Ans 1

158 Convrsion of milk to curd improve its nutritional* value by increasing the amount of

1 Vitamin D 2 Vitamin A 3 Vitamin B 12 4 Vitamin

Ans 3

159 Which of the following is an amino acid derived hormon?

1 pinphrin 2 cdyson 3 stradiol 4 striol

Ans 1

160 Which of the following structures or regions is *incoectly* paired with its function?

1 Mdulla oblongata : controls respiration and

cardiovascular reflexs.

2 Limbic systm : consists of fibre tracts that

intrconnct diffrent regions of brain; controls

movmnt.

3 Hypothalamus : production of releasing

hormons and regulation of t mprature hungr

and thirst.

4 Corpus callosum : band of fibers conncting

left and right crebral

hemispheres.

Ans 2

161 Which of the following hormons can play a significant role in ostoporesis?

- 1 Aldostron and Prolactin
- 2 Progstron and Aldostron
- 3 strogand Parathyroid hormon
- 4 Parathyroid hormon and Prolactin

Ans 3

162 The transparent lens in the human ye is held in its plac by

- 1 ligamnts attached to the ciliary body
- 2 ligamnts attached to the iris
- 3 smooth muscles attached to the iris
- 4 smooth muscles attached to the ciliary body

Ans 1

163 Which of the following animals dos *not*undergo mtamorphosis?

1 arthworm 2 Tunicat 3 Moth 4 Starfish

Ans 1

164 Idntify th vrtbrat group of animals charactrized by crop and gizzard in its digestive sytst m.

1 Amphibia 2 Reptilia 3 Avs 4 Ostichthyes

Ans 3

165 Which of the following organisms are known as chief producrs in the ocans?

1 Dinoflagllats 2 Diatoms 3 Cyanobactria 4 uglenoids

Ans 2

166 Which on of thes animals is **not** a homotherm?

1 Macropus2 Chelon3 Camelus4 Psittacula

Ans 2

167 Ciliats diffr from all other protozoans in

- 1 using flaglla for locomotion
- 2 having a contractile vacuole for removing xcss watr
- 3 using psudopodia for capturing prey
- having two typs of nuclei

Ans 4

168 Which of the following fatures is usd to identify a male cockroach from a fmale cockroach?

- 1 Presnc of a boat shapd strnum on the 9 th abdominal sgmnt
- 2 Presnc of caudal styles
- 3 Forewings with darker tgmina
- 4 Presnc of anal crci

Ans 2

Which of the following options correctly represnts the lung conditions in asthma and mphysma respectively?

- Inflammation of bronchioles; Dcreasd respiratory surfac
- 2 Increasd number of bronchioles; Increasd respiratory surfac
- 3 Increasd respiratory surfac; Inflammation of bronchioles
- 4 Dcreasd respiratory surfac; Inflammation of bronchioles

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170	Match the items given in Column I with thos in
	Column II and slect the coectoption given
	below:

Column I		$_{I}$	Column II		
a.	Tricuspid	valv	i. Btwn left atrium		
			and left vntricle		
b.	Bicuspid	valv	ii. Btw ri ight		
			vntricle and		
			pulmonary artry		
c.	Semiluna	r valv	iii. Btwri g ht atrium		
			and right vntricle		
	a	b	С		
1	iii	i	ii		
2	i	iii	ii		
3	i	ii	iii		
4	ii	i	iii		

Ans 1

171 Match the items given Column I with thos in Column II and slect the coectoption given below:

"	Column I	Column II
a.	Tidal volum	i. 2500-3000 mL
b.	Inspiratory Resrv	ii. 1100-1200 mL
	volum	
c.	xpiratory Resrv	iii. 500-550 mL
	volum	

d. Residual volum			iv. 100	iv. 1000-1100 mL		
	a	b	С	d		
1	iii	ii	i	iv		
2	iii	i	iv	ii		
3	i	iv	ii	iii		
4	iv	iii	ii	i		

Ans 2

172 AGGTATCGCAT is a square from the coding strand of a gn. What will be the corresponding s quinc of the transcribed mRNA?

1 AGGUAUCGCAU 2 UGGTUTCGCAT

3 ACCUAUGCGAU 4 UCCAUAGCGUA

Ans 1

173 According to Hugo de Vries the mchanism of volution is:-

- 1 Multiple stp mutations
- 2 Saltation
- 3 Phenotypic variations
- 4 Minor mutations

Ans 2

174 Match the items given in Column I with thos in Column II and slect the coectoption given below:-

		Column I Proliferative Phas		Column II	
	a.			i. Breakdown of	
				ndomtrial lining	
	b.	Secretory Phas Mnstruation		ii. Follicular Phas iii. Lutal Phas	
	c.				
			b	c	
	1	iii	ii	i	
	2	i	iii	ii	
	3	ii	iii	i	
	4	iii	i	ii	
nc	3				

Ans 3

175 A woman has an X-linked condition on on of her X chromosoms. This chromosom can be inherited by:-

1 Only daughtrs

Column I

- 2 Only sons
- 3 Only grandchildren
- 4 Both sons and daughtrs

Ans 4

176 All of th following are part of an opron *xcept*:

1 an oprator	2 structural gns		
3 an nhancr	4 a promotr		

Ans 3

177 Which of the following gastric clls indirectly help in rythropoiesis ?

1 Chief clls	2 Mucous clls
3 Goblet clls	4 Parietal clls

Ans 4

178 Match the items given in Column I with thos in Column II and slect the *coect*option given below:-

Column II

	Coun	1111	Commit II
a.	Fibrinogn		 Osmotic balanc
b.	Globulin		ii. Blood clotting
c.	Albumin		iii. Dfnc mchanism
		b	c
1	iii	ii	i
2	i	ii	iii
3	i	iii	ii
4	ii	iii	i

Ans 4

179 Calcium is important in skeletal muscle contraction becaus it:-

- 1 binds to troponin to remov the masking of active sites on actin for myosin.
- 2 activats the myosin ATPas by binding to it.
- 3 detaches the myosin head from the actin filamnt.
- 4 prevnts the formation of bonds betw n the myosin cross bridgs and the actin filamnt.

Ans 1

180 Which of th following is an occupational respiratory disorder ?:

1 Anthracis	2 Silicosis
3 Botulism	4 mphysma