

QUESTION PAPER TO NEET 2017 - (7-5-2017) - Code P - Biology

46.	Which of the following in sewage treatment rem (1) Tertiary treatment (2) Secondary treatmen	t (3) Primary treatment (4) Sludge treatment	
47.	Which one of the following is related to Ex-situ(1) Wildlife Safari parks(3) Amazon rainforest	conservation of threatened animals and plants?(2) Biodiversity hot spots(4) Himalayan region	
48.	Phosphoenol pyruvate (PEP) is the primary CO	₂ acceptor in:	
	(1) C_3 plants (2) C_4 plants	(3) C_2 plants (4) C_3 and C_4 plants	
49.	 Which one of the following statements is not va (1) They are harmful to human health (2) They alter rainfall and monsoon patterns (3) They cause increased agricultural productive (4) They have negative impact on agricultural based on a statement of the statement of t	lid for aerosols? rity and	
50.	In case of poriferans, the spongocoel is lined wite (1) ostia (2) oscula	:h flagellated cells called:(3) choanocytes(4) mesenchymal cell	lls
51.	Which cells of 'Crypts of Lieberkuhn' secrete at (1) Argentaffin cells (2) Paneth cells	ntibacterial lysozyme?(3) Zymogen cells(4) Kupffer cells	
52.	Lungs are made up of air-filled sacs, the alveoli. because of:	They do not collapse even after forceful expirat	ion,
	 (1) Residual Volume (3) Tidal Volume 	(2) Inspiratory Reserve Volume(4) Expiratory Reserve Volume	
53.	Viroids differ from viruses in having:(1) DNA molecules with protein coat(3) RNA molecules with protein coat	(2) DNA molecules without protein coat(4) RNA molecules without protein coat	
54.	Which of the following are not polymeric?(1) Nucleic acids(2) Proteins	(3) Polysaccharides (4) Lipids	
55.	Select the mismatch:(1) Pinus-(2) Cycas-(3) Salvinia-(4) Equistum-		
56.	A gene whose expression helps to identify trans (1) Selectable marker (2) Vector	formed cell is known as: (3) Plasmid (4) Structural gene	
57.	A decrease in blood pressure/volume will not ca(1) Renin(3) Aldosterone	use the release of: (2) Atrial Natriuretic Factor (4) ADH	

58.	In Bougainvillea thorns are the modifications of:				
	(1) Stipules (2) Adventitious root	(3)	Stem	(4)	Leaf
50		1			
39.	An important characteristic that Hemichordates s (1) , absonge of poteshord	(2)	with Chordates is:		rd
	(1) absence of hotochord (3) pharway with gill slits	(2) (4)	nharvny without gi	ill clit	e e
	(5) pharynx with gin sins	(ד)	pharynx without gi	in sin	5
60.	Which of the following facilitates opening of stor	mata	al aperture?		
	(1) Contraction of outer wall of guard cells				
	(2) Decrease in turgidity of guard cells				
	(3) Radial orientation of cellulose microfibrils in	n the	e cell wall of guard c	ells	11
	(4) Longitudinal orientation of cellulose microfi	Ibrils	s in the cell wall of g	guard	cells
61	Which of the following statements is CORRECT	'?			
01.	(1) The ascending limb of loop of Henle is impe	erme	able to water.		
	(2) The descending limb of loop of Henle is imp	berm	eable to water.		
	(3) The ascending limb of loop of Henle is perm	neab	le to water.		
	(4) The descending limb of loop of Henle is per-	mea	ble to electrolytes.		
62	Which of the following are found in extreme soli	naa	anditions?		
02.	(1) Archaebacteria (2) Eubacteria	(3)	Cvanobacteria	(4)	Mycobacteria
		(5)	Cyunobuctoriu	()	101yeooueteriu
63.	The morphological nature of the edible part of co	ocon	ut is:		
	(1) Perisperm (2) Cotyledon	(3)	Endosperm	(4)	Pericarp
()			1		
64.	Identify the WRONG statement in context of hea	irtwo	000:		
	(1) Organic compounds are deposited in it (2) It is highly durable				
	(2) It is inginy durable (3) It conducts water and minerals efficiently				
	(4) It comprises dead elements with highly ligni	ified	walls		
65.	If there are 999 bases in an RNA that codes for a	prof	tein with 333 amino	acids	, and the base at
	position 901 is deleted such that the length of the	8 KN	A becomes 998 base	es, no	w many codons will
	(1) 1 (2) 11	(3)	33	(4)	333
		(5)	55	(1)	555
66.	The region of Biosphere Reserve which is legally	y pro	tected and where no	hum	an activity is allowed
	is known as:				
	(1) Core zone (2) Buffer zone	(3)	Transition zone	(4)	Restoration zone
67	A dioecious flowering plant prevents both:				
07.	(1) Autogamy and xenogamy	(2)	Autogamy and geit	tonog	amv
	(3) Geitonogamy and xenogamy	(4)	Cleistogamy and x	enoga	amy
			C ,	U	5
68.	Which statement is WRONG for Krebs' cycle?				
	(1) There are three points in the cycle where NA	AD^+	is reduced to NADI	H + H	+
	(2) There is one point in the cycle where FAD^+	is re	duced to FADH ₂		
	(3) During conversion of succinyl CoA to succin	nic a	icid, a molecule of C	GTP is	s synthesised
	(4) The cycle starts with condensation of acetyl	grou	up (acetyl CoA) with	n pyru	vic acid to yield citric
	acid				
69	Which among these is the CORRECT combination	on o	f aquatic mammals?		
07.	(1) Seals, Dolphins, Sharks	(2)	Dolphins, Seals. Tr	rygon	
	(2) W^{-1} D 11 C 1	$\dot{\alpha}$		1	

70. The hepatic portal vein drains blood to liver from:							
	(1) Heart	(2) Ston	nach	(3)	Kidneys	(4)	Intestine
71.	71. Functional megaspore in an angiosperm develops into.						
	(1) Ovule	(2) Ende	osperm	(3)	Embryo sac	(4)	Embryo
72.	Mycorrhizae are	the example of:					
	(1) Fungistasis	(2) Ame	ensalism	(3)	Antibiosis	(4)	Mutualism
73.	Transplantation of immune-respo	of tissues/organs nse is responsib	fails often due le for such reje	to no ctions	on-acceptance by t s?	the patie	ent's body. Which type
	(1) Autominidate (3) Hormonal in	nmune response	;	(2) (4)	Physiological in	imune r	esponse
74.	Adult human RB explanation for th (a) They do not (b) They are sor (c) They do not (d) All their inte (1) Only (d)	Cs are enucleated nis feature? need to reprodu natic cells metabolize ernal space is av	e. Which of the ace ailable for oxyg	follo gen tr	wing statements(s ansport	s) is/are	(b) and (c)
	(1) Only (u)	(2) Only	(a)	(3)	(a), (c) and (d)	(+)	(0) and (0)
75.	Alexander Von H (1) Ecological B (3) Species area	Iumbolt describ Biodiversity relationships	ed for the first t	(2) (4)	Laws of limiting Population Grov	; factor vth equa	tion
76.	Attractants and re (1) Anemophily	ewards are requ (2) Ento	ired for: mophily	(3)	Hydrophily	(4)	Cleistogamy
77.	Which one of the (1) Apoenzyme (3) Coenzyme =	following state = Holoenzyme Apoenzyme +	ments is CORR + Coenzyme Holoenzyme	CECT (2) (4)	with reference to Holoenzyme = A Holoenzyme = C	enzyme Apoenzy Coenzyn	es? 7me + Coenzyme ne + Co-factor
78.	An example of co (1) Chlorella	olonial alga is: (2) Volv	70X	(3)	Ulothrix	(4)	Spirogyra
79.	A disease caused (1) Down's Syn (3) Turner's Sur	by an autosoma drome ndrome	al primary non-(disjur (2) (4)	nction is: Klinefelter's Syn Sickle Cell Aner	ndrome nia	
80.	 DNA fragments a (1) Positively ch (2) Negatively ch (3) Neutral (4) Either positively 	nre: harged harged vely or negative	ely charged dep	endin	g their size		
81.	The pivot joint be (1) fibrous joint	etween atlas and (2) carti	l axis is a type o laginous joint	of: (3)	synovial joint	(4)	saddle joint
82.	Asymptote in a lo (1) The value of (3) K > N	ogistic growth c	urve is obtained zero	d whe (2) (4)	n: K = N K < N		

- 83. Myelin sheath is produced by:
 - (1) Schwann Cells and Oligodendrocytes
 - (3) Oligodendrocytes and Osteoclasts
- (2) Astrocytes and Schwann Cells
- (4) Osteoclasts and Astrocytes
- 84. The process of separation and purification of expressed protein before marketing is called:
 - (1) Upstream processing

(2) Downstream processing

(3) Bioprocessing

- (2) Downstream processing(4) Postproduction processing
- 85. GnRH, a hypothalamic hormone, needed in reproduction, acts on:
 - (1) anterior pituitary gland and stimulates secretion of LH and oxytocin.
 - (2) anterior pituitary gland and stimulates secretion of LH and FSH.
 - (3) posterior pituitary gland and stimulates secretion of oxytocin and FSH.
 - (4) posterior pituitary gland and stimulates secretion of LH and relaxin.
- 86. Hypersecretion of Growth Hormone in adults does not cause further increase in height, because
 - (1) Growth Hormone becomes inactive in adults.
 - (2) Epiphyseal plates close after adolescence.
 - (3) Bones loose their sensitivity of Growth Hormone in adults.
 - (4) Muscle fibres do not grow in size after birth
- 87. Which ecosystem has the maximum biomass?
 - (1) Forest ecosystem (2) Grassland ecosystem (3) Pond ecosystem (4) Lake ecosystem
- 88. Fruit and leaf drop at early stages can be prevented by the application of:
 (1) Cytokinins
 (2) Ethylene
 (3) Auxins
 (4) Gibberellic acid
- 89. The final proof for DNA as the genetic material came from the experiments of:(1) Griffith (2) Hershey and Chase
 - (1) Griffith
 (2) Hershey and Chase
 (3) Avery, Mcleod and McCarty
 (4) Hargobind Khorana
- 90.Which of the following represents order of 'Horse'?
(1) Equidae(2) Perissodactyla(3) Caballus(4) Ferus
- 91. Out of 'X' pairs of ribs in humans only 'Y' pairs are true ribs, Select the option that CORRECTLY represents values of X and Y and provides their explanation:
 - (1) X = 12, Y = 7 True ribs are attached dorsally to vertebral column and ventrally to the sternum.
 - (2) X = 12, Y = 5 True ribs are attached dorsally to vertebral column and sternum on the two ends.
 - (3) X = 24, Y = 12 True ribs are dorsally attached to vertebral column but are free on ventral side.
 - (4) X = 24, Y = 12 True ribs are dorsally attached to vertebral column but are free on ventral side.
- 92. Match the following sexually transmitted diseases (Column-I) with their causative agent (Column –II) and select the CORRECT option.
 - Column I Column II
 - (a) Gonorrhea (i) HIV
 - (b) Syphilis (ii) Neisseria
 - (c) Genital Warts (iii) Treponema
 - (d) AIDS (iv) Human Papilloma-Virus
 - (a) (b) (c) (d)
 - (1) (ii) (iii) (iv) (i)
 - (2) (iii) (iv) (i) (ii)

- (3) (iv) (ii) (iii) (i)
- (4) (iv) (iii) (ii) (i)
- 93. Thalassemia and sickle cell anemia are caused due to a problem in globin molecules synthesis. Select the CORRECT statement.
 - (1) Both are due to a qualitative defect in globin chain synthesis.
 - (2) Both are due to a quantitative defect in globin chain synthesis.
 - (3) Thalassemia is due to less synthesis of globin molecules.
 - (4) Sickle cell anemia is due to a quantitative problem of globin molecules
- 94. Which of the following is made up of dead cells?
 - (1) Xylem parenchyma (2) Collenchyma
 - (3) Phellem (4) Phloem
- 95. A baby boy aged two years is admitted to play school and passes through a dental check-up. The dentist observed that the boy had twenty teeth. Which teeth were absent?
 - (1) Incisors (2) Canines (3) Pre-molars (4) Molars
- 96. Which of the following cell organelles is responsible for extracting energy from carbohydrates to form ATP?
 - (1) Lysosome (2) Ribosome (3) Chloroplast (4) Mitochondrion
- 97. Capacitation occurs in:
 - (1) Rete testis
 - (3) Vas deferens

- (2) Epididymis
- (4) Female Reproductive tract
- 98. The association of histone H1 with a nucleosome indicates
 - (1) Transcription is occurring
 - (2) DNA replication is occurring
 - (3) The DNA is condensed into a Chromatin fibre.
 - (4) The DNA double helix is exposed
- 99. With reference to factors affecting the rate of photosynthesis, which of the following statements is not CORRECT?
 - (1) Light saturation for CO_2 fixation occurs at 10% of full sunlight
 - (2) Increasing atmospheric CO_2 concentration up to 0.05% can enhance CO_2 fixation rate
 - (3) C_3 plants respond to higher temperatures with enhanced photosynthesis while C_4 plants have much lower temperature optimum
 - (4) Tomato is a greenhouse crop which can be grown in CO_2 -enriched atmosphere for higher yield
- 100. Homozygous purelines in cattle can be obtained by:
 - (1) mating of related individuals of same breed.
 - (2) mating of unrelated individuals of same breed.
 - (3) mating of individuals of different breed.
 - (4) mating of individuals of different species.
- 101. Which of the following options gives the CORRECT sequence of events during mitosis?
 - (1) condensation \rightarrow nuclear membrane disassembly \rightarrow crossing over \rightarrow segregation \rightarrow telophase
 - (2) condensation → nuclear membrane disassembly → arrangement at equator → centromere division → segregation → telophase
 - (3) condensation \rightarrow crossing over \rightarrow nuclear membrane disassembly \rightarrow segregation \rightarrow telophase
 - (4) condensation \rightarrow arrangement equator \rightarrow centromere division \rightarrow segregation \rightarrow telophase

- 102. Select the CORRECT route for the passage of sperms in male frogs:
 - (1) Testes \rightarrow Bidder's canal \rightarrow Kidney \rightarrow Vasa efferentia \rightarrow Urinogential duct \rightarrow Cloaca
 - (2) Testes \rightarrow Vasa efferentia \rightarrow Kidney \rightarrow Seminal Vesicle \rightarrow Urinogenital duct \rightarrow Cloaca
 - (3) Testes \rightarrow Vasa efferentia \rightarrow Bidder's canal \rightarrow Urinogenital duct \rightarrow Cloaca
 - (4) Testes \rightarrow Vasa efferentia \rightarrow Kidney \rightarrow Bidder's canal \rightarrow Urinogenital duct \rightarrow Cloaca

103.	Spliceosomes are not f	ound in cells of:		
	(1) Plants	(2) Fungi	(3) Animals	(4) Bacteria

- 104.Which one from those given below is the period for Mendel's hybridization experiments?(1)1856-1863(2)1840-1850(3)1857-1869(4)1870-1877
- 105. The DNA fragments separated on an agarose gel can be visualized after staining with:
 (1) Bromophenol blue(2) Acetocarmine
 (3) Aniline blue
 (4) Ethidium bromide
- 106. The function of copper ions in copper releasing IUD's is:
 - (1) They suppress sperms motility and fertilizing capacity of sperms.
 - (2) They inhibit gametogenesis.
 - (3) They make uterus unsuitable for implantation
 - (4) They inhibit ovulation.
- 107. Presence of plants arranged into well defined vertical layers depending on their height can be seen best in:
 - (1) Tropical Savannah
 - (3) Grassland

- (2) Tropical Rain Forest
- (4) Temperate Forest
- 108. Which of the following CORRECTLY matched for the product produced by them?
 - (1) Acetobacter aceti : Antibiotics (2) Methanobacterium : Lactic acid
 - (3) *Penicillium notatum* : Acetic acid (4) *Sacchromyces cerevisiae* : Ethanol

109. What is the criterion for DNA fragments movement on agarose gel during gel electrophoresis?

- (1) The larger the fragment size, the farther it moves
- (2) The smaller the fragment size, the farther it moves
- (3) Positively charged fragments move to farther end
- (4) Negatively charged fragments do not move
- 110. Zygotic meiosis is characteristic of: (1) Marchantia (2) Fucus
 - (3) Funaria

(4) *Chlamydomonas*

- 111. Life cycle of Ectocarpus and Fucus respectively are:(1) Haplontic, Diplontic(2) Diplontic, Haplodiplontic
 - (1) Haplodiplontic, Diplontic (2) Diplontic, Haplodiplontic (3) Haplodiplontic, Diplontic (4) Haplodiplontic, Haplontic
- 112. Which among the following are the smallest living cells, known without a definite cell wall, pathogenic to plants as well as animals and can survive without oxygen?
 (1) Bacillus
 (2) Pseudomonas
 (3) Mycoplasma
 (4) Nostoc

113.Root hairs develop from the region of:
(1) Maturation(2) Elongation(3) Root cap(4) Meristematic activity

114. Flowers which have single ovule in the ovary and are packed into inflorescence are usually pollinated by:

(1) Water (2) Bee (3) Wind (4) Bat

115.	Receptor sites for neurotransmitters are present of (1) membranes of synaptic vesicles(3) tips of axons	on: (2) (4)	pre-synaptic membrane post-synaptic membrane
116.	Plants which produce characteristic pneumatoph(1) Mesophytes(2) Halophytes	ores (3)	and show vivipary belong to: Psammophytes (4) Hydrophytes
117.	DNA replication in bacterial occurs:(1) During S phase(3) Prior to fission	(2) (4)	Within nucleolus Just before transcription
118.	The genotypes of a Husband and Wife are I ^A I ^B a Among the blood types of their children, how mapossible?	nd I any c	^A i. different genotypes and phenotypes are
	 3 genotypes; 3 phenotypes 4 genotypes; 3 phenotypes 	(2) (4)	3 genotypes; 4 phenotypes 4 genotypes; 4 phenotypes
119.	Which of the following compounds provides stic(1) Cell wall(2) Nuclear membrane	cky c (3)	haracter to the bacterial cell? Plasma membrane (4) Glycocalyx
120.	Which of the following RNAs should be most at(1) r-RNA(2) t-RNA	ounda (3)	ant in animal cell? m-RNA (4) mi-RNA
121.	 Anaphase Promoting Complex (APC) is a protein mitosis of animal cells. If APC is defective in a loccur? (1) Chromosomes will not condense (2) Chromosomes will be fragmented (3) Chromosomes will not segregate** (4) Recombination of chromosome arms will on 	n deg numa	gradation machinery necessary for proper an cell, which of the following is expected to
122.	Among the following characters, which one was pea?	not	considered by Mendel in his experiments on
	 (1) Stem-Tall or Dwarf (3) Seed-Green of Yellow 	(2) (4)	Trichomes- Glandular or non-glandular Pod-Inflated or Constricted
123.	Select the mismatch:(1) Frankia-(2) Rhodospirillum-(3) Anabaena-(4) Rhizobium-(5) Anabaena-(6) Anabaena-(7) Alfalfa		
124.	Double fertilization is exhibited by: (1) Gymnosperms (2) Algae	(3)	Fungi (4) Angiosperms
125.	In case of a couple where the male is having a vessitable for fertilization?	ery lo	ow sperm count, which technique will be Gamete intracytoplasmic fallonian transfor
	(3) Artificial Insemination	(2) (4)	Intracytoplasmic sperm injection
126.	A temporary endocrine gland in the human body (1) Pineal gland (2) Corpus cardiacum	r is: (3)	Corpus luteum (4) Corpus allatum

- 127. The vascular cambium normally gives rise to:
 - (1) Phelloderm (2) Primary phloem

(3) Secondary xylem (4) Periderm

- 128. During DNA replication, Okazaki fragments are used to elongate:
 - (1) The leading strand towards replication fork.
 - (2) The laggings strand towards replication fork.
 - (3) The leading strand away from replication fork.
 - (4) The lagging strand away from the replication fork.

129. Artificial selection to obtain cows yielding higher milk output represents:

- (1) stabilizing selection as it stabilizes this character in the population.
- (2) directional as it pushes the mean of the character in one direction
- (3) disruptive as it splits the population into two, one yielding higher output and the other lower output
- (4) stabilizing followed by disruptive as it stabilized the population to produce higher yielding cows.
- 130. Which of the following option best represented the enzyme composition of pancreatic juice?
 - (1) amylase, peptidase, trypsinogen, rennin
 - (2) amylase, pepsin, trypsinogen, maltase
 - (3) peptidase, amylase, pepsin, rennin
 - (4) lipase, amylase, trypsinogen, procarboxypeptidase
- 131. Coconut fruit is a:
 - (1) Drupe (2) Berry (3) Nut (4) Capsule
- 132. The water potential of pure water is:
 - (1) Zero(2) Less than zero(3) More than zero but less than one(4) More than one
- 133. Frog's heart when taken out of the body continues to beat for sometime.
 - Select the best option from the following statements.
 - (a) Frog is a poikilotherm.
 (b) Frog does not have any coronary circulation.
 (c) Heart is "myogenic" in nature
 (d) Heart is Autoexcitable.
 - (1) Only (c) (2) Only (d) (3) (a) and (b) (4) (c) and (d)
- 134. Good vision depends on adequate intake of carotene rich food. Select the best option from the following statements.
 - (a) Vitamin A derivatives are formed from carotene.
 - (b) The photo pigments are embedded in the membrane discs of the inner segment.
 - (c) Retinal is a derivative of Vitamin A.
 - (d) Retinal is a light absorbing part of all the visual photo pigments. Opitons:
 - (1) (a) and (b) (2) (a), (c) and (d) (3) (a) and (c) (4) (b), (c) and (d)
- 135.MALT constitutes aboutpercent of the lymphoid tissue in human body.(1) 50%(2) 20%(3) 70%(4) 10%