(PAPER WTH ANSWERKEY) SET - 'Z'

NEET - 2017 (07.05.2017)

BIOLOGY

- 1. The vascular cambium normally gives rise to:
- Ans. (1) Secondary xylem
- 2. Which of the following is made up of dead cells?
- Ans. (1) Phellem
- **3.** Double fertilization is exhibited by :
- Ans. (2) Angiosperms
- **4.** With reference to _______ is not correct's
- Ans. (1) C_3 plants respond to higher temperatures with enhanced photosynthesis while C_4 plants have much lower temperature optimum
- **5.** Which statement is wrong for Krebs' cycle?
- Ans. (2) The cycle starts with condensation of acetyl group (Acetyl COA) with pyruvic acid to yield citric acid
- **6.** Coconut fruit is a :
- Ans. (3) Drupe
- 7. The morphological nature of the edible part of coconut is:
- Ans. (1) Endosperm
- **8.** Identify the wrong statement in context of heartwood:
- Ans. (1) It conducts water and minerals efficiently
- **9.** The final proof for DNA as the genetic material came from the experiments of :
- Ans. (4) Hershey and Chase
- **10.** Which one of the following is related to Ex-situ conservation of threatened animals and plants?
- Ans. (3) Wildlife Safari parks
- 11. During DNA replication, Okazaki fragments are used to elongate:
- Ans. (2) The lagging strand away from the replication fork.
- **12.** Which of the following statements is correct?
- Ans. (3) The ascending limb of loop of Hen impermeable of water.
- 13. Plants which produce characteristic pneumatophores and show vivipary belong to:
- Ans. (4) Halophytes



14.	Zygoti	ic meiosis is characteristic of:	
Ans.	(3)	Marchantia	
15.	Which	among the following are the smallestwithout oxygen?	
Ans.	(1)	Mycoplasma	
16.	A baby	y boy aged twowere absent?	
Ans.	(1)	Pre-molars	
17.	Capac	pacitation occurs in :	
Ans.	(2)	Female Reproductive tract	
18.	The ge	enotypes ofare possible?	
Ans.	(1)	4 genotypes; 3 phenotypes	
19.	MALT constitutes about percent of the lymphoid tissue in human body.		
Ans.	(3)	50%	
20.	Homo	zygous purelines in cattle can be obtained by:	
Ans.	(3)	mating of related individuals of same breed	
21.	The fir	ne function of copper ions in copper releasing IUD's is:	
Ans.	(3)	They suppress sperm motility and fertilizing capacity of sperms.	
22.	Which	one of the following statements is not valid for aerosols?	
Ans.	(1)	They cause increased agricultural productivity	
23.	. ,		
Ans.	(4)	g the following characters,on pea? Trichomes-Glandular or non-glandular	
	. ,		
24. Ans.	(3)	ase caused by an autosomal primary non-disjunction is: Down's Syndrome	
25. Ans.	Select (2)	the correct route for the passage of sperms in male frogs: Testes \rightarrow vasa efferntia \rightarrow Kidney Bidder's canal \rightarrow Urinogenital duct Cloaca	
26.		of the following cell	
Ans.	(2)	Mitochondrion	
27.		the following	
Ans.	(3)	(ii) (iii) (iv) (i)	
28.		Y' pairs of	
Ans.	(3)		
29.	Which	ecosystem has the maximum biomass?	
Δnc	(3)	Forest ecosystem	

30. Ans.	Viroid (2)	s differ from viruses in having: RNA molecules without protein coat
31. Ans.	Select (4)	the mismatch: Rhodospirillum - Mycorrhiza
32. Ans.	Good (3)	vision depends on
33. Ans.	Frog's (2)	heart when taken
34. Ans.	If there (1)	e are 999 bases in
35. Ans.	Artific (4)	Directional as it pushes the mean of the character in one direction
36. Ans.	The he (2)	epatic portal vein drains blood to liver from: Intestine
37. Ans.	The w (3)	ater potential of pure water is: Zero
38. Ans.	A tem (1)	porary endocrine gland in the human body: Corpus luteum
39. Ans.	Present (4)	Tropical Rain Forest seen best in:
40. Ans.	Mycon (2)	rrhizae are the example of: Mutualism
41. Ans.	Thalas (3)	Both are due to a qualitative defect in globilised chain synthesis.
42. Ans.	Which (2)	of the following are not polymeric? Lipids
43. Ans.	The re (3)	gion of Biosphere
44. Ans.	Which (3)	of the following RNAs should be most abundant in animal cell? r-RNA
45. Ans.	What 1 (4)	is the criterion for

46.		e of poriferans, the spongocoel is lined with flagellated cells called:	
Ans.	(1)	choanocytes	
47. Ans.	DNA replication in bacteria occurs: (1) Prior to fission		
48. Ans.	. ,	are made up ofbecause of Residual Volume	
49. Ans.	An im (1)	ventral tubular nerve cord Chordates is:	
50. Ans.	Asymp (4)	btote in a logistic growth curve is obtained when: $\mathbf{K} = \mathbf{N}$	
51. Ans.	The as (1)	sociation of histone H1 with a nucleosome indicates: The DNA is condensed into a Chromatin Fibre.	
52. Ans.	Fruit a	nd leaf drop at early stages can be previous by the application of: Auxins	
53. Ans.	Which (4)	of the following represents order of 'Ho Perissodactyla	
54. Ans.	Which (3)	of the following are found in extreme same conditions? Archaebacteria	
55. Ans.	Alexai	nder Von Humbolt described for the time: Species area relationships	
56. Ans.	Splice (2)	osomes are not found in cells of: Bacteria	
57. Ans.	Which (4)	one of the following statements is correct with reference to enzymes? Holoenzyme = Apoenzyme + Coenzyme	
58. Ans.	Adult (3)	human RBCs arethis future? only (d)	
59. Ans.	Which (1)	among these is the correct combination of aquatic mammals? Whales, Dolphins, Seals	
60. Ans.	Recept (2)	tor sites for neurotransmitters are present on: post-synaptic membrane	
61. Ans.	DNA 1	fragments are: Negatively charged	

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62.	The process of separation and purification of expressed protein before marketing is call		
Ans.	(4)	Downsteam processing	
63.	Flowers which have single ovule in thepollinate by:		
Ans.	(4)	Bee	
64.	Functional megaspore in an angiosperm developed into:		
Ans.	(1)	Embryo sac	
65.	Which one from those givenhybridization experiments		
Ans.	(3)	1856 - 1863	
66.	An exa	ample of colonial alga is:	
Ans.	(4)	Volvox	
67.	Transr	plantation of tissues/rejections?	
Ans.	(4)	Cell-mediated immune response	
68.	In case of a couple where thefor fertilization?		
Ans.	(1)	artificial insemination	
69. Ans. 70.	Attractants and rewards are required for: (4) Entomophily Select the mismatch:		
Ans.	(3)	Pinus - Dioecious	
71. Ans.	GnRH (4)	, a hypothalamic hormone, needed in reproduction, acts on: Anterior pituitary gland and stimulates secretion of LH and FSH	
72.	Which	cells of 'Crypts of Lieberkuhn' secrete antibacterial lysozyme?	
Ans.	(3)	Argentaffin cells	
73. Ans.	Myelin (3)	n sheath is produced by: Schwann Cells and Oligodendrocytes	
74. Ans.	(2)	of the following components provides sticky character to the bacterial cell? Glycocalyx	
75. Ans.	A general (3)	e whose expression helps to identify transformed cell is known as: Selectable marker	
76.	Root h	nairs develop from the region of:	



Haplodiplontic, Diplontic

Life cycle of Ectocarpus and Fucus respectively are:

Maturation

(3)

(1)

Ans.

77. Ans.

78.	Which of the following options givesduring mitosis?		
Ans.	(4)	$Condensation \rightarrow nuclear membrane disassembly \rightarrow arrangement at equator $	
		ightarrow centromere division $ ightarrow$ segregation $ ightarrow$ telophase	
79.	The pi	The pivot joint between atlas and axis is a type of:	
Ans.	(1)	Synovial joint	
80.	Phospl	noenol pyruvate (PEP) is the primary CO ₂ acceptor in :	
Ans.	(4)	C ₄ plants	
81.	Hypersecretion of Growth		
Ans.	(4)	Epiphyseal plates close after adolescence.	
82. Ans.	Which (2)	of the following is correctly matched for the product produced by them? Sacchromyces cerevisiae: Ethanol	
83. Ans.	A decr	rease in blood pressure/volume will not cause the release of: Atrial Natriuretic Factor	
84. Ans.	Which (2)	of the following options best represents the enzyme composition of pancreatic juice? Lipase, Amylase, trypsinogen, procarboxypeptidase	
85. Ans.	A dioe (4)	cious flowering plant prevents both: Autogamy and geitonogamy	
86.	Which	of the following facilitates opening of stomatal aperture?	
Ans.	(1)	Radial orientation of cellulose microfibrils in the cell wall of guard cells	
87.	The D	NA fragments separated on an	
Ans.	(2)	Ethidium bromide	
88.	In Bougainvillea thorns are the modifications of		
Ans.	(1)	Stem	
89.	Anaph	ase Promoting Complex (APC)expected to occur?	
Ans.	(1)	Chromosomes will not segregate	
90.	Which of the following in sewage treatment removed suspended solids?		
Ans.	(1)	Primary treatment	

CHEMISTRY

Ans. (4)

92. The most suitable method of separation of 1 : 1 mixture of ortho and para-nitrophenols is:

Ans. (2) Steam distillation

93. The species, having bond angles of 120° is:

Ans. (2) BCl_3

94. The equilibrium constants ofwill be

Ans. (4) $\frac{K_2 K_3^3}{K_1}$

95. Which one is the wrong statement?

Ans. (2) The energy of 2s orbital is less than the energy of 2p orbital in case of Hydrogen like

96. $HgCl_2$ and I_2 both when dissolvedspecies formed is:

Ans. (1) HgI_4^{2-}, I_3^{-}

97. An example of a sigma bonded organometa compound is:

Ans. (4) Grignard's reagent

98. The correct statement regarding electrophile is:

Ans. (2) Electrophile can be either neutral or positive charged species and can form a bond accepting a pair of electrons from nucleophile

99. Name the gas that can readily decolourise acidifies $KMnO_4$ solution:

Ans. (4) SO_2

100. The heating of phenyl-methyl ethers with HI produces.

Ans. (1) phenol

101. Which one is the most acidic compound?

$$O_2N$$
 OH NO_2

Ans. (2)

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102. For a given reaction,vary with temperature?

Ans. (4) T > 425K

103. The correct order of the stoichiometriesrespectively is:

Ans. (1) 3AgCl, 2AgCl, AgCl

104. In the electrochemical cell: E_1 and E_2 ?

Ans. (1) $E_1 > E_2$

105. Ionic mobility of which of the followingelectric field?

Ans. (2) Li

Ans. (3) $[Co(en)_3]^{3+}, [Co(NH_3)_6]^{3+}, [Co(H_2O)]$

107. Mixture of chloroxylenol and terpineol acts as

Ans. (4) Antiseptic

108. Predict the correct intermediate and product in following reaction:

Ans. (2)

Ans. (3) Sn^{2+} in reducing while Pb^{4+} is oxidising

110. With respect to the conformers of ethane, which of the following statements is true?

Ans. (2) Both bond angles and bong length remains same

111. Which of the following pairs of compounds is isoelectronic and isostructural?

Ans. (Bonus)

112. The reason for greater range of oxidation states in actinoids is attributed to:

Ans. (1) 5f, 6d and 7s levels having comparable energies

113. Which of the following statements is not correct?

Ans. (2) Denaturation makes the proteins more active

114. Mechanism of a hypothetical react $X_2 + Y_2 \rightarrow 2XY$ is given below:

Ans. (2) 1.5

115. Which one of the following statements is correct?

Ans. (4) The value of reaction equilibrium.

Ans. (2) 5.3×10^{-12}

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- 117. Which of the following is dependent temperature?
- Ans. (4) Molarity
- 118. If molality of the dilute solution is doubled,will be:
- Ans. (2) Unchanged
- Ans. (1) 505 J
- **120.** A first order reaction has a specificreduce to 5g?
- Ans. (4) 138.6 sec
- 121. Pick out the correct statement with respect to $\lceil Mn(CN)_6 \rceil^{3-}$:
- Ans. (1) It is d^2sp^3
- Ans. (4) (iii) (i) (iv) (ii)
- 123. The correct increasing order of basic strength for the following compounds is:
- Ans. (2) II < I < III
- **124.** Which of the following is a sink for CO?
- Ans. (4) Micro organisms present in the soil
- **125.** The element Z=114 has been discoveredelectronic configuration?
- **Ans.** (4) Carbon family, $[Rn]5f^{14}6d^{10}7s^27p^2$
- **126.** Which of the following reactions isto methanamine?
- Ans. (4) Hoffmann hypobromamide reaction
- 127. Identify A and predict the type of reaction



- Ans. (3) NH₂ and substitution reaction
- **128.** A 20 litre container at 400 K containsvalue, will be:
- Ans. (3) 5 litre
- Ans. (1) A- Ethanal, X Ethanol, Y- But-2-enal, Z-Semicarbazone
- 130. Which one of the following pairs of species have same bond order?
- Ans. (1) CN^-, CO

- 131. In which pair of ions both the species contain S-S bond?
- **Ans.** (4) $S_4O_6^{2-}, S_2O_3^{2-}$
- **132.** Extraction of gold and silver involves leachingrecovered by:
- Ans. (2) Displacement with Zn
- **133.** Which one is the correct order of acidity?

Ans. (4)
$$CH = CH > CH_3 - C = CH > CH_2 = CH_2 : CH_3 - CH_3$$

- **134.** Which is the incorrect statement?
- Ans. (2 or 3)
- **135.** The IUPAC name of the compound
- Ans. (3) 3-Keto-2methylhex-4-enal

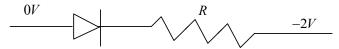
PHYSICS

- Ans. (2) 40 Hz
- Ans. (1) $\frac{I_0}{4}$
- Ans. (2) $\frac{\mu_o i^2}{\sqrt{2}\pi d}$
- Ans. (2) 11 RT
- 140. Two astronauts are floating in gravitational free space after having lost contact with their spaceship. The two will:
- Ans. (4) move towards each other.
- Ans. (3) $\cot^2 \theta = \cot^2 \theta_1 + \cot^2 \theta_2$
- **Ans.** (3) $9.1\mu J$

- Ans. (4) $\frac{1}{7\lambda}$
- **Ans.** (4) $2.83 \times 10^{-8} T$
- Ans. (2) d = 2 km
- **146.** The given electrical network is equivalent to:
- Ans. (1) NOR gate
- Ans. (2) $\frac{p}{3B}$
- **Ans.** (1) $10^{-37}C$
- Ans. (1) 1:11
- **Ans.** (1) $-4m/s^2$
- Ans. (2) (i) 10 J (ii) -8.75 J
- **152.** Two blocks A and B of masses, are respectively:
- **Ans.** (4) $\frac{g}{3}, g$
- Ans. (1) $\frac{4\pi}{\sqrt{5}}$
- **Ans.** (4) $\frac{1}{4}I(\omega_1 \omega_2)^2$
- **155.** The resistance of a wire is 'R' resistance will be:
- **Ans.** (1) $n^2 R$
- Ans. (2) 1800

- **157.** The photoelectric threshold $2536 \times 10^{-10} m$ is:
- **Ans.** (3 or 4) (iii) $\approx 6 \times 10^5 \, ms^{-1}$ or (iv) $\approx 0.6 \times 10^6 \, ms^{-1}$
- **158.** A beam of light from a source L is θ is given by:
- Ans. (3) $\frac{y}{2x}$
- **159.** A rope is wound around a hollow a force of 30 N?
- **Ans.** (1) $25rad / s^2$
- **160.** One end of string of length l istension in the string)
- Ans. (3) T
- Ans. (4) P-c, Q a, R d, S b
- **162.** A physical quantity of the gravitation at e is charge]:
- **Ans.** (3) $\frac{1}{c^2} \left[G \frac{e^2}{4\pi \in_0} \right]^{\frac{1}{2}}$
- **163.** Young's double slit experiment is first medium is nearly:
- Ans. (2) 1.78
- **164.** A potentiometer is an accurate andthe method involves:
- Ans. (1) a condition of no current flow through the galvanometer
- **165.** The ratio of wavelengths of the last line of Balmer series and the last line of Lyman series is:
- Ans. (1) 4
- **166.** The diagrams below show regions of euipotentials.
- Ans. (4) In all the four cases the work done is the same.
- **167.** Which of the following statements are correct?
- Ans. (3) (b) and (d)
- Ans. (1) 3:2
- Ans. (4) deceases by a factor of 2
- **Ans.** (2) $928kgm^{-3}$

- Ans. (1) 2 A
- Ans. (4) $\frac{h}{\sqrt{3mkT}}$
- 173. Which one of the following represents forward bias diode?



- Ans. (3)
- **Ans.** (3) $\frac{K_1 + K_2}{2}$
- Ans. (4) 90 J
- Ans. (1) 150 and 15000
- 177. Preeti reached the metro stationescalator will be:
- Ans. (1) $\frac{t_1 t_2}{t_2 + t_1}$
- **Ans.** (4) 6°
- **Ans.** (1) $32\pi\mu C$
- **180.** Two cars moving in opposite directionssound of 340 m/s]:
- Ans. (2) 448*Hz*

END OF NEET PAPER



Though medical team at CatalyseR has taken utmost care in drafting the answers.

But due to early documentation & printing, an error of \pm 5% may occur.

Answer should be taken in that respect.

