

# ISMART SAMPLE PAPER FOR CLASS 12" (MEDICAL)

			Test ID :
Time	: 1.5 hrs.	•••••	M. Marks: 360
		•••••	
		S	SYLLABUS & SCHEME
	SUBJECTS	Qs.	SYLLABUS
PHYS	ICS	22	XII Syllabus
CHEN	/ISTRY	22	XII Syllabus
BIOL	OGY (BOTANY + ZOOLOGY)	46	XII Syllabus
•••••	•••••	•••••	
INS	TRUCTIONS TO CANDID	ATE	
>			s of multiple choice questions with only one correct answer. $+4$ marks and $-1$ mark for wrong answer.
>			n for each question carefully and fill the correct answer against the eet in the respective subject.
>	Use blue or black ball point circle.	nt pen	to darken the appropriate circle & mark should completely fill the
>		s blanl	spaces for your rough work. No additional sheet will be provided for
>	Blank papers, Clipboards Electronic gadgets in any fo		Tables, Slide rule, Calculators, Cellular phones, Pagers and not allowed.
>	Write your Name, Student II ID in the space provided on		e block at the top of the Answer Sheet. Also write your Name & Studen ver page of question paper.
	Name:		Student ID

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- **PHYSICS** 1. If distance between the points (3m, am) and (4m, 5m) is  $\sqrt{10}$  m. Find the value of a : (A) -2(B) -8(C) 8 (D) 10 2. The side of a equilateral triangle is increasing at the rate of 0.2 cm/s. The rate of increase of perimeter w.r.t. time is:
- 3. The length, breadth and thickness of a block are given by l = 12 cm, b = 6 and t = 2.45 cm. The volume of the block according to the idea of significant figures should be
  - (A)  $1 \times 10^2 \ cm^3$

(A) 0.2 cm/s

(C) 0.6 cm/s

(B)  $2 \times 10^2 \ cm^3$ 

(B) 0.4 cm/s

(D) 0.8 cm/s

- (C)  $1.763 \times 10^2 \text{ cm}^3$
- (D) None of these
- 4. The angle made by the vector  $\vec{A} = (12\hat{\imath} + 3\hat{\jmath} 4\hat{k})$  with the X axis is:
  - (A)  $\sin^{-1}\left(\frac{5}{12}\right)$
- (B)  $\tan^{-1}\left(\frac{5}{13}\right)$
- (C)  $\cos^{-1}\left(\frac{12}{12}\right)$
- (D)  $\cot^{-1}\left(\frac{4}{2}\right)$
- 5. Which of the following forces cannot be a resultant of 5N force and 7N force
  - (A) 2 N

- (B) 10 N
- (C) 14 N
- (D) 5 N
- 6. The dimension of coefficient of viscosity is
  - (A)  $[M^{-1}L^{-1}T^{-1}]$
- (B)  $[M^{1}L^{-1}T^{-1}]$
- (C)  $[M^1L^{-2}T^{-2}]$
- (D)  $[M^{1}L^{-1}T^{1}]$
- 7. If density  $(\rho)$ , distance (L) and universal gravitational constant (G) are taken as fundamental quantities, the dimension of pressure (P) are:
  - (A)  $[\rho^2 L^2 G^{-1}]$
- (B)  $[\rho^2 L^2 G^1]$
- (C)  $[\rho^2 L^{-2} G^1]$
- (D)  $[\rho^2 L^{-2} G^{-1}]$
- 8. The ratio of SI unit to CGS unit of universal gravitational constant (G) is:
  - (A)  $10^6$

(B)  $10^3$ 

(C)  $10^{-3}$ 

- (D)  $10^{-5}$
- 9. What is the percentage error in the volume of a cube when error in measuring its side is 2%:
  - (A) 2%

(B) 4%

(C) 6%

(D) 8%

- 10. Percentage error in measuring the radius and mass of a ring are 2% and 1% respectively. Then error in measurement of moment of inertia about its diameter is:
  - (A) 8%

(B) 3%

(C) 4%

- (D) 5%
- 11. If a unit charge is taken from one point to another over an equipotential surface, then:
  - (A) Work is done on the charge
- (B) Work is done by the charge
- (C) Work on the charge is constant
- (D) No work is done

12. In the electric field of a point charge q, a certain charge is carried from point A to B, C, D and E. Then work done is



- (A) is least along the path
  - (B) is least along the path AD
- (C) is zero through any one (D) is least along AE of the path AB,

  - AC, AD and AE
- 13. A charge q is placed at the centre of the line joining two equal charges Q. The system of the three charges will be in equilibrium if q is equal to:

(C)  $\frac{+Q}{2}$ 

- 14. Two electric charges 2q and 8q are placed at a distance of 6a on a horizontal plane. The distance of the location of the point from charge 2q where the electric field is zero
  - (A) 2.5a
- (B) 1.5a

(C) a

- (D) 2a
- 15. Two point charges 24μC and 16μC are placed 10 cm apart. The work done to bring them closer by 4 cm will be approximately:
  - (A) 23 J

- (B) 32 J
- (C) 2.3 J

- (D) 230 J
- 16. The dielectric constant of an insulator may be (out of the options, which one is possible):
  - (A) ∞

(B) zero

(C) -2

(D) 6

- 17. In a region the potential is represented by V(x, y, z) = 6x 8xy 8y + 6yz, where V is in volts and x, y, z are in metres. The electric force experienced by a charge of 2 coulomb situated at point (1, 1, 1) is:
  - (A) 30 N
- (B) 24 N
- (C)  $4\sqrt{35}$  N
- (D)  $6\sqrt{5}$  N
- 18. A soap bubble is given a negative charge, then its radius :
  - (A) decreases
- (B) increases
- (C) remains unchanged
- (D) nothing can be predicted
- 19. Consider the Gaussian surface that surrounds part of the charge distribution shown in fig. Then the contribution to the electric field E at point P arise from charges:



- (A)  $q_1$  and  $q_2$  only
- (B)  $q_3$  and  $q_2$  only
- (C)  $q_1$ ,  $q_2$ ,  $q_3$  and  $q_4$  only
- (D) none of these
- 20. Calculate the flux through the cube shown in fig. for  $\vec{E} = E_0 x \hat{\imath}$ : (side of cube is a)



(A)  $E_0 a^2$ 

(B)  $E_0 a^3$ 

(C)  $E_0 a^4$ 

- (D) Zero
- 21. The work done required to put the six charges together at the corners of a regular hexagon is:



- (A)  $\frac{6kQ^2}{a} + \frac{3kQ^2}{2a}$
- (B)  $\frac{6kQ^2}{a} + \frac{6kQ^2}{\sqrt{3}a}$
- (C)  $\frac{6kQ^2}{a} + \frac{6kQ^2}{\sqrt{3}a} + \frac{3kQ}{2a}$
- (D)  $\frac{6kQ^2}{a} + \frac{3kQ^2}{\sqrt{3}a} + \frac{6kQ^2}{2a}$
- 22. An arc of radius R is shown in the figure, find the potential at its centre:



(A)  $\frac{6kQ}{R}$ 

(B)  $\frac{5kQ}{R}$ 

(C)  $\frac{\sqrt{3}kQ}{R}$ 

(D) <u>√2</u>k R

#### **CHEMISTRY**

23. Match the oxide given in column I with its property given in column II.

Column I Column II

- (i) Na<sub>2</sub>O
- A. Neutral
- (ii) Al<sub>2</sub>O<sub>3</sub>
- B. Basic
- (iii) N<sub>2</sub>O
- C. Acidic
- (iv) Cl<sub>2</sub>O<sub>7</sub> D. Amphoteric
- Which of the following options has all correct pairs?
- (A) (i)-B, (ii)-A, (iii)-D,(B) (i)-C, (ii)-B, (iii)-A, (iv)-C (iv)-D
- (C) (i)-A, (ii)-D, (iii)-B,(D) (i)-B, (ii)-D, (iii)-A, (iv)-C (iv)-C
- 24. The correct order of increasing bond length of C H, C O, C C and C = C is
  - (A) C H < C = C < C (B) C C < C = C < C O < C H
  - (C) C O < C H < C (D) C H < C O < C C C < C = C
- 25. Match List I with List II

L	ist I	List II		
(A)	PCl <sub>5</sub>	(i)	Square pyramidal	
(B)	SF <sub>6</sub>	(ii)	Trigonal planar	
(C)	BrF <sub>5</sub>	(iii)	Octahedral	
(D)	BF <sub>3</sub>	(iv)	Trigonal bipyramidal	

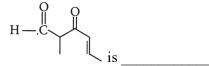
Choose the correct answer from the options given below:

- (A) (A) (iv), (B) (iii), (B) (A) (iv), (B) (iii),
  - (C) (ii), (D) (i)
- (C) (i), (D) (ii)
- (C) (A) (ii), (B) (iii), (D) (A) (iii), (B) (i),
  - (C) (iv), (D) (i)
- (C) (iv), (D) (ii)
- 26. Which of the following is paramagnetic?
  - (A)  $N_2$

(B)  $H_2$ 

(C) Li<sub>2</sub>

- (D)  $O_2$
- 27. The IUPAC name of the compound



- (A) 5-formylhex-2-en-3- (B) 5-methyl-4-oxohexone 2-en-5-al
- (C) 3-keto-2-methylhex- (D) 3-keto-2-methylhex-5-enal 4-enal

- 28. Which nomenclature is not according to IUPAC system?
  - (A) Br  $CH_2$   $CH = CH_2$ 1-Bromoprop-2-ene
- (B) CH<sub>3</sub> - CH<sub>2</sub> - C - CH<sub>2</sub> - CHCH<sub>3</sub> ĊНа 4-Bromo-2,4-dimethylhexane
- (C) CH<sub>3</sub> CH CH CH<sub>2</sub>CH<sub>3</sub> (D) CH<sub>3</sub> C CH<sub>2</sub> CH<sub>2</sub> CH<sub>2</sub>COOH 2-Methyl-3-phenylpentane
- Ö 5-Oxohexanoic acid
- 29. Removal of 2<sup>nd</sup> electron for an element is always:
  - (A) Endothermic
- (B) Endotermic for Mg, Be, N
- (C) Exothermic for Mg, (D) Depends of electronic configuration Be, N and Noble gases
- 30. The formation of oxide ion,  $O^{2-}(g)$  requires first an exothermic and then an endothermic step as shown below:

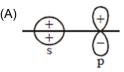
$$O(g) + e^- \rightarrow O^-(g); \ \Delta H^o = -142 \text{ kJmol}^{-1}$$
  
 $O^-(g) + e^- \rightarrow O^{2-}(g); \ \Delta H^o = 844 \text{ kJmol}^{-1}$ 

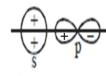
This is because:

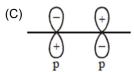
- more(B) oxygen (A) oxygen is has high electronegative electron affinity
- (C) O- ion will tend to (D) O- has comparatively resist the addition of larger size than another electron oxygen atom
- 31. Name of the compound given below is

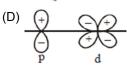
- (A) 4-ethyl-3methyloctane
- (B) 3-methyl-4ethyloctane
- (C) 2,3-diethylheptane
- (D) 5-ethyl-6methyloctane
- 32. The IUPAC name for CH<sub>3</sub>CH = CHCH<sub>2</sub>CHCH<sub>2</sub>COOH NΗ
  - (A) 3-amino-5-heptenoic (B)  $\beta$ -amino- $\delta$ -heptenoic
  - (C) 5-amino-2-heptenoic (D) 5-amino-hex-2acid enecarboxylic acid

33. Which of the following leads to bonding?









- 34. Which of the following has largest bond angle.
  - (A) H<sub>2</sub>O

(B) F<sub>2</sub>O

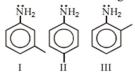
(B)

- (C) Cl<sub>2</sub>O
- (D)  $H_2S$
- 35. The most stable carbocation, among the following
  - (A)  $(CH_3)_3C \overset{+}{C}H CH_3$  (B)  $CH_3 CH_2 \overset{+}{C}H CH_2$
  - (C)  $CH_3 CH_2 CH_2 CH_3 CH_2 CH_2$ CH<sub>2</sub>-CH<sub>3</sub>
- **36.**  $C_2H_2$  is isostructural with:
  - (A)  $H_2O_2$
- (B) NO<sub>2</sub>
- (C) SnCl<sub>2</sub>
- (D) CO<sub>2</sub>
- 37. According to VSEPR theory which of the following molecules is (are) bent (non-linear)? I. CO<sub>2</sub> II. C<sub>2</sub>H<sub>2</sub> III. O<sub>3</sub> IV. BeCl<sub>2</sub> V. KrF<sub>2</sub>
  - (A) All of these
- (B) III, IV
- (C) III, IV, V
- (D) Only III
- 38. Which of the following pair of species have identical shapes?
  - (A)  $NO_2^+$  and  $NO_2^-$
- (B) PCl<sub>5</sub> and BrF<sub>5</sub>
- (C) XeF<sub>4</sub> and ICl<sub>4</sub>
- (D) TeCl<sub>4</sub> and XeO<sub>4</sub>
- 39. Which of the following order is correct for decreasing electron density in benzene ring

$$(I) \begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0$$

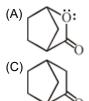
- (A) (I) > (IV) > (II) > (III) (B) (I) > (III) > (IV)
- (C) (IV) > (II) > (I) > (III) (D) (I) > (II) > (IV) > (III)

- 40. -ČH<sub>2</sub> is aromatic because it has The radical.
  - (A) 7 p-orbitals and 7(B) 6 p-orbitals and 7 unpaired electrons unpaired electrons
  - (C) 6 p-orbitals and 6(D) 7 p-orbitals and 6 unpaired electrons unpaired electrons
- 41. Choose the correct order of basic strength?



- (A) III > II > I
- (B) III > I > II
- (C) II > I > III
- (D) I > II > III
- 42. Which of the following has strong +I effect?
  - (A) 👨

- (B) –Et
- (C) – $CH_3$
- (D)  $-NH-CH_3$
- 43. Which of the following compound is not resonance stabilized?





- 44. Dipole moment of NF<sub>3</sub> is smaller than :-
  - (A) NH<sub>3</sub>

(B) CO<sub>2</sub>

(C) BF<sub>3</sub>

(D) CCl<sub>4</sub>

#### **BIOLOGY**

- 45. Genetic variations affect the production of the drug reserpine in the medicinal plant Rauwolfia vomitoria growing in different Himalayan ranges. What kind of diversity does it indicate?
  - (A) Species diversity
- (B) Genetic diversity
- (C) Ecological diversity (D) None of these
- 46. An American plant which is a troublesome water weed in India is
  - (A) Parthenium
- (B) Typha
- (C) Trapa
- (D) Eichhornia
- 47. Fish used in biological control of mosquitos is:
  - (A) Hilsa
- (B) Gambusia
- (C) Pomfret
- (D) Catla catla

- 48. Species diversity increases as one proceeds from
  - (A) Low altitudes to high (B) Low altitude to high altitudes and from low latitude to high latitudes

altitude and from high latitudes to low latitudes

- (C) High altitude to low(D) High altitudes to low altitude and from low latitudes to high latitudes
- altitudes and from high latitude to low latitudes
- 49. Match the following columns –

Column I		Column II
Dodo	(a)	Africa
Quagga	(b)	Russia
Thylacine	(c)	Mauritius
Stellar's Sea cow	(d)	Australia
	Dodo	Dodo (a) Quagga (b) Thylacine (c)

Choose the correct match from following:

- (A) (i) a, (ii) c, (iii) b, (B) (i) d, (ii) c, (iii) a, (iv) - d(iv) - b
- (C) (i) c, (ii) a, (iii) b, (D) (i) c, (ii) a, (iii) d, (iv) - d(iv) - b
- 50. The Extinction of Passenger Pigeon was due to:
  - of (B) Over exploitation by (A) Increased No. Predatory birds humans
  - (C) Non-availability of(D) Bird flu virus food Infection
- 51. Which one of the following cause of biodiversity loss, is because of mutualism?
  - (A) Habitat fragmentation (B) Over exploitation
  - (D) Alien (C) Co-extinctions species invasions
- 52. Which disease showing common symptoms like stomach pain, 39° to 40°C fever, weakness & loss of appetite
  - (A) Typhoid
- (B) Pneumonia
- (C) Common cold
- (D) Malaria
- 53. Which bacteria is responsible for the disease Pneumonia in humans?
  - (A) Streptococcus Pneumoniae
- (B) Haemophillus influenzae
- (C) Rhino virus
- (D) Both A and B





- (A) Epidermophyton
- (B) Filariasis
- (C) Ascariasis
- (D) Sporozoites
- 55. Which lymphocyte is mainly infected by HIV.
  - (A) Cytotoxic Lymphocytes
- T-(B) Helper T-Lymphocytes
- (C) Supressor Lymphocytes
- T-(D) Memory Lymphocytes
- 56. Virus infected cells secrete Proteins called
  - (A) Interlukins
- (B) Interferons
- (C) Monokines
- (D) Lymphokines
- 57. How many types of acquired immune responses found in humans
  - (A) One
- (B) Two
- (C) Five
- (D) Four
- 58. When a host is exposed to antigen, antibodies are Produced in the host body this type of immunity is called?
  - (A) Passive immunity
- (B) Passive Natural immunity
- (C) Active immunity
- (D) Innate immunity
- 59. Which antibodies secrete during allergy?
  - (A) IgG

(B) IgM

(C) IgD

- (D) IgE
- 60. Diagnostic test for AIDS is?
  - (A) EILSA
- (B) Widal test
- (C) Tourniquet test
- (D) Enzyme linked immuno sorbent assay
- 61. Smack is chemically?
  - (A) Diacetyl morphine
- (B) Diethyl morphine
- (C) Ethyl alcohol
- (D) 3-4 Diacetylmorphine

- 62. Which antibodies is responsible for activation of mast cell?
  - (A) IgA

(B) IgE

(C) IgG

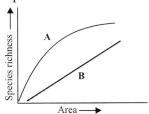
- (D) IgM
- 63. MALT contributes how many percentage of total Lymphoid tissues.
  - (A) 15%

(B) 25%

- (C) 50%
- (D) 75%
- 64. Contact inhibition is the Property of
  - (A) Carcinoma
- (B) Sarcoma
- (C) Normal cell
- (D) Malignant tumor
- 65. Primary Lymphoid organ is
  - (A) Spleen
- (B) Tonsils
- (C) Bone marrow
- (D) Pineal Gland
- 66. Tropics (23.5°N and 23.5°S) have species as compared to temperate or polar regions.
  - (A) less

T-

- (B) equal
- (C) more
- (D) none of these
- 67. Which option correctly describes the equations for curves A and B, in the given graph of species area relationship?



- Α
- (A)  $S = CA^z$

$$Log S = Log C + Z Log A$$

- (B)  $\text{Log S} = \text{Log C} + \text{Z Log A} \quad \text{S} = \text{CA}^z$ (C)  $\text{Log C} = \text{Log S} + \text{Z Log A} \quad \text{S} = \text{CA}^z$
- (D)  $S = CA^z$
- Log C = Log S + Z Log A
- 68. Motile zygote of Plasmodium occurs in:
  - (A) Human RBCs
- (B) Human liver
- (C) Gut of Anopheles
- female(D) Salivary glands of Anopheles
- 69. Fill in the blanks with the most appropriate option. The value of z-lies in the range of regardless of the taxonomic group or the region.
  - (A) 0.1 to 0.2
- (B) 0.3 to 0.8
- (C) 0.1 to 1.0
- (D) 0.6 to 1.8

70.	Liver	cirrhosis	is	due	to	?
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(A) Chronic use of drugs (B) Chronic use of Alcohol

(C) Misuse of Atropa(D) Excessive use of balladona cannabinoids

## 71. What is the correct sequence of enzyme action?

(A) 
$$E + S \rightleftharpoons EP \rightarrow E + S$$
 (B)  $E + S \rightarrow EP \rightleftharpoons E+P$ 

(C) 
$$E + P \rightleftharpoons EP \rightleftharpoons ES \rightarrow (D)$$
  $E + S \rightleftharpoons ES \rightarrow EP \rightarrow E+S$   $E+P$ 

## 72. Which metal ion will work as cofactor for the enzyme carboxypeptidase:-

(A) Mo

(B)  $Zn^{+2}$ 

(C) Se

(D)  $Fe^{+2}$ 

## 73. Inhibition of succinic dehydrogenase by malonate is the example of:-

- (A) Non competitive(B) Allosteric inhibition inhibition
- (C) Competitive inhibition
- (D) Negative feed back

74. 
$$X Y$$
 $C \longrightarrow C \longrightarrow X \longrightarrow Y + C = C$ 

the above reaction catalyzed by which class of enzymetic Reaction?

- (A) Ligases
- (B) Transferases
- (C) Lyases
- (D) Hydrolases

## 75. How many species are documented to be extinct in last 500 years by IUCN Red List, 2004?

- (a) 2,000
- (b) 87
- (c) 567
- (d) 784

## 76. The protein structure that gives a 3-D view is :

- (a) α -helix
- (b) Primary structure
- (c) Tertiary structure
- (d) β-pleated sheath

## 77. Select the correct choice which identifies the chemical bonds (A, B, C) present in the given macromolecules :

Fats = A, Protein = B, Polysaccharide = 
$$C$$

Α

В

C

- (a) Ester
- Peptide
- Glycosidic

- (b) Ester
- Glycosidic
- Glycosia

- (c) Peptide
- Glycosidic
- Peptide

- (d) Peptide
- Ester
- Ester Glycosidic

option. **Statement 1 :** Tropic

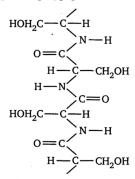
**Statement 1:** Tropical rainforests are disappearing fastly from developing countries such as India.

78. Read the given statements and select the correct

Statement 2: No value is attached to these forests because these are poor in biodiversity.

- (a) Both statements 1 and 2 are correct.
- (b) Statement 1 is correct but statement 2 is incorrect.
- (c) Statement 1 is incorrect but statement 2 is correct.
- (d) Both statements 1 and 2 are incorrect

#### 79. Observe a part of polypeptide shown below:



How many  $H_2O$  molecules got eliminated to form the above mentioned length of the polypeptide?

- (a) 4
- (b) 3
- (c) 2
- (d) 5

# 80. An exotic species that is introduced to a new area, spreads rapidly and eliminates native species is called

- (a) immigrant species
- (b) invasive species
- (c) destructive species
- (d) none of these

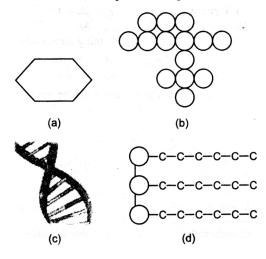
#### 81. Carbohydrates are

- (a) aldehydic and ketonic derivatives
- (b) polyhydroxy compounds
- (c) optically active substances and hydrates of carbon
- (d) all above

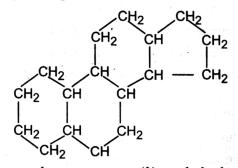
## 82. Which pair of geographical area shows maximum diversity in our country?

- (a) Sunderbans and Rann of Kutch
- (b) Eastern Ghats and Westerns Ghats
- (c) Eastern Himalayas and Western Ghats
- (d) Kerala and Punjab

- 83. In a national park, protection is provided to
  - (a) flora and fauna
  - (b) entire ecosystem
  - (c) fauna only
  - (d) flora only
- 84. Which structure represents a lipid molecule?



85. The given figure is a structure of



- (a) sterol
- (b) carbohydrate
- (c) proteins
- (d) ketones
- 86. Match column I with column II and select the correct option from the given codes.

## Column I

### Column II

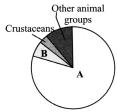
- Rhinoceros A.
- High endemism
- B. *In situ* conservation
- (ii) Off site conservation
- Ex situ conservation
- (iii) On site conservation
- D. Hotspots
- (iv) Kaziranga
- (a) A (iv), B (iii), C(b) A (iv), B (i), C (iv)

  - (ii), D (i)
- (ii), D (iii)
- (c) A (iv), B (ii), C(d) A (iv), B (i), C (iv)- (iii), D - (i)
  - (iii), D (ii)

87. Find incorrect difference between purine and pyrimidine?

	Purine	Pyrimidine		
(A)	Larger	Smaller		
(B)	9 membered ring	6 membered ring		
(C)	Nitrogen at position 2,3,7,9	Nitrogen at position 2,3		
(D)	Adenine, Guanine	Cytosine, Thymine Uracil		

- 88. Select the incorrectly matched pair.
  - (a) UNESCO = United(b) CITES = Convention Nations Educational in International Trade Scientific and in Elite Species Cultural Organisation
  - (c) IUCN = International(d) WWF = World Wide Union Fund for Nature Conservation for Nature and Natural Resources
- 89. Given pie diagram represents the proportionate number of species of major groups of invertebrates. Identify the groups A and B.



- (a) A = Insects, B = (b) A = Molluscs, B =Molluscs Insects
- (c) A = Insects, B = (d) A = Molluscs, B = (d)Annelids Annelids
- 90. Which of the following statements is not true about RNA?
  - (a) Does not have a(b) Thymine is present double stranded structure
  - (c) Does obey(d) The sugar contained not in RNA is a ribose Chargaff's rule

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1. 5. 9.	C C C	2. 6. 10.	C B D	3. 7. 11.	B B D	4. 8. 12.	C B C
13.	В	14.	D	15.	Α	16.	D
17.	С	18.	В	19.	С	20.	В
21.	С	22.	Α	23.	D	24.	Α
25.	В	26.	D	27.	D	28.	Α
29.	Α	30.	C	31.	Α	32.	Α
33.	В	34.	С	35.	C	36.	D
37.	D	38.	C	39.	D	40.	C
41.	С	42.	A	43.	С	44.	A
45.	В	46.	D	47.	В	48.	D
49.	D	50.	В	51.	C	52.	A
53.	D	54.	В	55.	В	56.	В
57.	В	58.	C	59.	D	60.	D
61.	A	62.	В	63.	C	64.	C
65.	C	66.	C	67.	A	68.	C
69.	A	70.	В	71.	fcD	72.	В
73.	C	74.	C	75.	D	76.	C
77.	A	78.	В	79.	В	80.	В
81.	D	82.	C	83.	В	84.	D
85.	A	86.	A	87.	$\mathbf{C}$	88.	В
89.		A	90.	В			