



## BIOLOGY

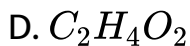
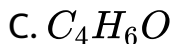
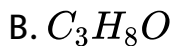
### BOOKS - SARAS PUBLICATION

### MODEL QUESTION PAPER 5

#### Exercise

1. 0.30 g of an organic compound containing C, H and oxygen on combustion yields 0.44 g of  $CO_2$  and 0.18 g of  $H_2O$ . If one mole of compound weighs 60, then molecular formula of the compound is:

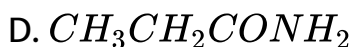
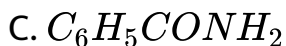
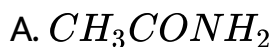
A.  $CH_2O$



**Answer:**

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2. Which one of the following will not undergo Hofmann bromamide reaction



**Answer:**



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**3.** Cheilosis and digestive disorders are due to the deficiency of:

A. thiamine

B. ascorbic acid

C. riboflavin

D. pyridoxine

**Answer:**



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4. How many Coulombs of electricity are required for the oxidation of one mole of water to dioxygen?

A.  $9.65 \times 10^4 C$

B.  $1.93 \times 10^4 C$

C.  $1.93 \times 10^5 C$

D.  $19.3 \times 10^5 C$

**Answer:**



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5.  $100\text{cm}^3$  of 1 M  $\text{CH}_3\text{COOH}$  was mixed with  $100\text{cm}^3$  of  $2\text{MCH}_3\text{OH}$  to form an ester . The change in the initial rate if each solution is diluted with equal volume of would be:

- A. 2 times
- B. 4 times
- C. 0.5 times
- D. 0.25 times

**Answer:**



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6. Which of the following colloids cannot be easily coagulated?

- A. Lyophobic colloids
- B. Multimolecular colloids
- C. Macromolecular colloids

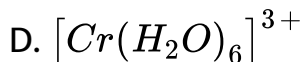
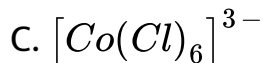
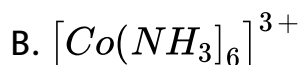
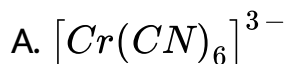
## D. Irreversible colloids

**Answer:**



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7. The complex ion having minimum magnitude of  $D_0(CFSE)$  is:



**Answer:**



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8. The arrangement of following compounds. I- Bromomethane, II- Bromoform, III- Chloromethane, IV- Dibromomethane. In the increasing order of their boiling point is:

A. III<I<IV<II

B. IV<III<I<II

C. III<III<I<IV

D. II<III<III<IV

**Answer:**



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9. The arrangement of following compounds. I- Bromomethane, II- Bromoform, III- Chloromethane, IV- Dibromomethane. In the increasing order of their boiling point is:

A. III < IV < II < I

B. IV < III < I < II

C. III < I < II < IV

D. II < III < I < IV

**Answer:**



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10. Iodoform can be prepared from all, except:



A. Propan-2-ol

B. butan-2-one

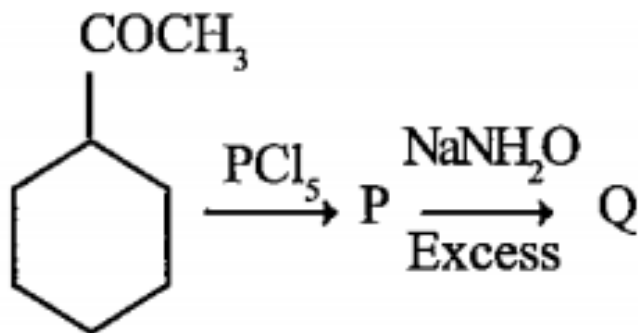
C. Propan-1-ol

D. acetophenone

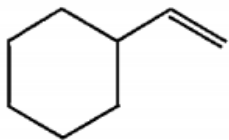
**Answer:**

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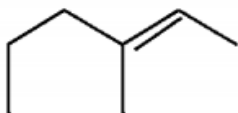
11. Identify Q in the following sequence of reactions:



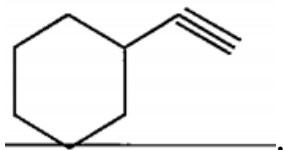
A.



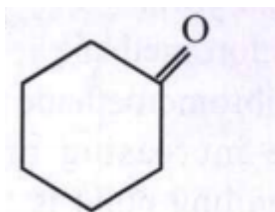
B.



C.



D.



**Answer:**

12. Cryolite is:

A.  $Na_3AlF_6$  and is used in the electrolysis of alumina for decreasing electrical conductivity

B.  $Na_3AlF_6$  and is used in the electrolysis of alumina for lowering the melting point of alumina only

C.  $Na_3AlF_6$  and is used in the electrolysis of alumina for lowering the melting point and increasing the conductivity of alumina

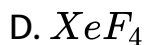
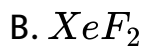
D.  $Na_3AlF_6$  and is used in the electrolytic refining of alumina

**Answer:**



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**13.** Which of the following compound of xenon has pyramidal geometry?



**Answer:**



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14. After adding non-volatile solute freezing point of water decreasing to  $-0.186^{\circ}C$ . Calculate

$\Delta T_b$ , if  $K_f = 1.86Kkgmol^{-1}$  and  $K_b = 0.521kgmol^{-1}$ .

A. 0.521

B. 0.0521

C. 1.86

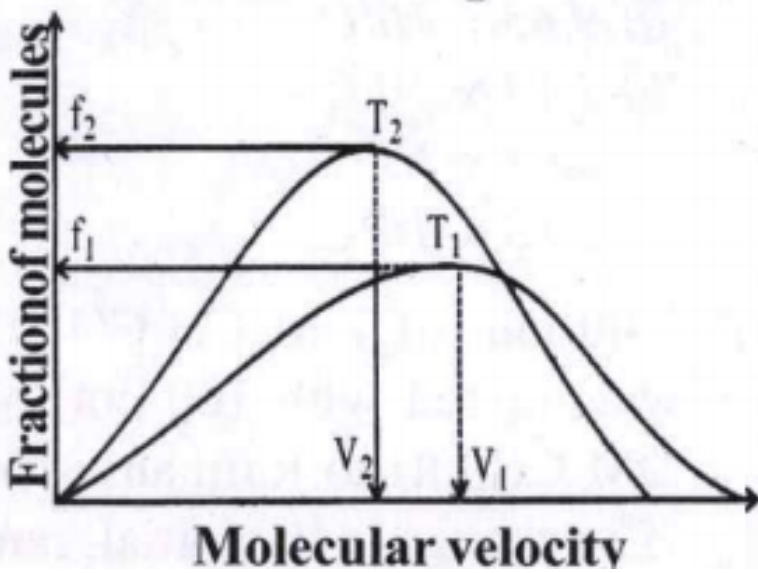
D. 0.0186

**Answer:**



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15. Plot of Maxwell's distribution of velocities is given below. Which of the following is correct about this plot?



A.  $T_1 < T_2$

B.  $f_1 > f_2$

C.  $T_1 > T_2$

D.  $V_1 < V_2$

Answer:



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16. The pair of compound which cannot exist together in solution is:

A.  $\text{NaHCO}_3$  and  $\text{NaOH}$

B.  $\text{NaHCO}_3$  and  $\text{H}_2\text{O}$

C.  $\text{NaHCO}_3$  and  $\text{Na}_2\text{CO}_3$

D.  $\text{Na}_2\text{CO}_3$  and  $\text{NaOH}$

**Answer:**



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17. What amount of dioxygen (in gram) contains  $1.8 \times 10^{22}$  molecules?

A. 0.096

B. 0.960

C. 9.60

D. 96.0

**Answer:**

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**18.** Using MOT, compare  $O_2^+$  and  $O_2^-$  species and choose the incorrect option.

A.  $O_2^+$  have higher bond order than  $O_2^-$

B.  $O_2^-$  is less stable

C.  $O_2^+$  is diamagnetic while,  $O_2^-$  is paramagnetic

D. Both  $O_2^+$  and  $O_2^-$  paramagnetic



**Answer:**



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**19. Which of the following is not true?**

- A. Erythromycin is a bacteriostatic antibiotic
- B. Ampicillin is not a natural antibiotic
- C. Prontosil is not converted into sulphanilamide in the body
- D. Vancomycin is a broad spectrum antibiotic

**Answer:**



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20. In the reaction,



.Heat of formation of  $SO_2$  is:

A.  $x+y$

B.  $x-y$

C.  $2x-y$

D.  $2x+y$

**Answer:**



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21. Arrange the following compounds in the increasing order of their acidic strength. I) m-nitrophenol, II) m-

cresol,III)Phenol,IV)m-chlorophenol.

A. IIIItIIIItIV

B. 11ItIVItIIIItI

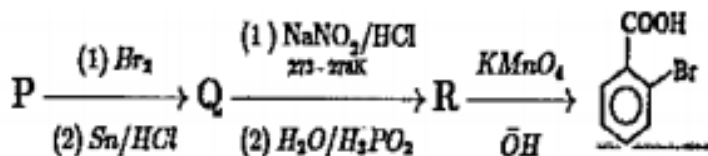
C. IIIItIIIItIVIt I

D. IIIItIIIItIV

Answer:

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22. In the sequence of following reactions, The starting compound P is:



- A. o-nitro toluene
- B. o-bromo toluene
- C. m-nitro toluene
- D. p-nitro toluene

**Answer:**



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**23.** Acetic acid is treated with  $Ca(OH)_2$  and the product so obtained is subjected to dry distillation. The final product is:

- A. ethanol
- B. propanal
- C. propanone

D. ethanol

**Answer:**



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**24.** Which of the following compound possesses the C-H bond with the lowest bond dissociation energy?

A. toluene

B. Benzene

C. n-pentane

D. 2,2-dimethyl propane

**Answer:**



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25. In the presence of  $HCl$ ,  $H_2S$  results the precipitation of group-2 elements but no group-4 elements during qualitative analysis. It is due to:

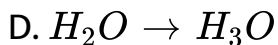
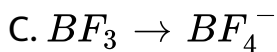
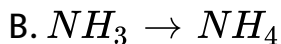
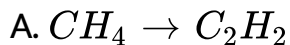
- A. higher concentration of  $S^{-2}$
- B. higher concentration to  $H^{+}$
- C. lower concentration of  $S^{-2}H^{+}$
- D. lower concentration of  $H^{+}$

**Answer:**



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26. Which one of the following conversion, results in the change of hybridisation and geometry?



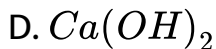
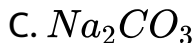
**Answer:**



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27. Water softening by Clark's process uses:

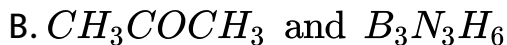




**Answer:**

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**28.** An alkali metal hydride (NaH) reacts with diborane in A to give a tetrahedral compound B which is extensively used as reducing agent in organic synthesis. The compounds A and B respectively are,





C.  $C_6H_6$  and  $NaBH_4$

D.  $(C_2H_5)_2O$  and  $NaBH_4$

**Answer:**

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**29.** With respect to phenylketonuria, identify which statement is not correct?

A. It is case of aneuploidy

B. It is an example of pleiotropy

C. Caused due to the autosomal recessive trait

D. it is an error in metabolism

**Answer:**



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**30.** In a human foetus the limbs and digits develop after:

- A. 12 weeks
- B. First trimester
- C. 5th month
- D. 8 weeks

**Answer:**



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31. The 2000 year old seed excavated from King Herod's palace at dead sea belong to:

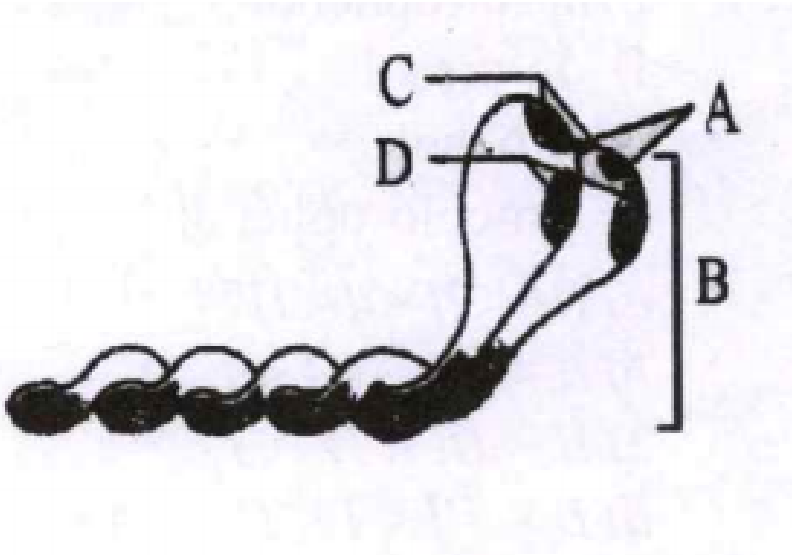
- A. *Dendrocalamus strictus*
- B. *Lupinus arcticus*
- C. *Phoenix dactylifera*
- D. *Strobilanthes kunthiana*

**Answer:**



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32. Label the correct parts of the myosin monomer.



A. A-Actin binding site, B-Head, C-ATP binding , D-Cross arm .

B. A-Cross arm, B-Actinbinding site , C-Head , D-ATPbinding site.

C. A-ATP binding site ,B-Actin binding site, C-Head, D-Cross arm.

D. A-Head , B-Cross arm, C-Actin binding site, D-ATP binding site.

**Answer:**

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**33.** Greenhouse crops such as tomatoes and bell pepper produce higher yields. This is due to:

- A.  $CO_2$  enriched atmosphere leads to higher yields
- B.  $CO_2$  is a limiting factor to photosynthesis
- C. Due to diffused light in greenhouse
- D. Tomatoes and bell pepper are not  $C_3$  plants

**Answer:**



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**34.** The organisms which completely lack a cell wall and can live without oxygen are:

- A. mycoplasmas
- B. archaebacteria
- C. methanogen
- D. thermoacidophiles

**Answer:**



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35. RNA polymerase-I transcribes eukaryotic ribosome which does not consist of:

A. 5.8 S rRNA

B. 28 S rRNA

C. 18 S rRNA

D. 5 S rRNA

**Answer:**



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36. Match the following column:

Column I	Column II
A. VNTR	1. Largest gene
B. Introns and exons	2. DNA finger printing
C. Dystrophin	3. Bulk DNA
D. Satellite DNA	4. Splicing

A. A-3, B-4, C- 1, D-2

B. A-2, B- 4, C- 1, D-3

C. A-2, B- 1, C- 4, D-3

D. A-4, B-1, C-2, D- 3

**Answer:**



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37. Smack and crack are produced from:

- A. Cannabis sativa and Papaver somniferum
- B. Cannabis sativa and Atropa belladonna
- C. Erythroxyllum coca and Atropa belladonna
- D. Papaver somniferum and Erythroxyllum coca

**Answer:**



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38. Double lines in pedigree analysis show:

- A. unaffected offspring
- B. sex unspecified

C. normal mating

D. consanguineous marriage

**Answer:**



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**39.** Progestasert is an IUD which makes the uterus unsuitable and cervix hostile to the sperms as they are:

A. hormone releasing IUDs

B. copper releasing IUDs

C. ideal contraceptive

D. non-medicated IUDs

**Answer:**



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40. The chromosome number in meiocyte is 34. The organism could be:

A. ophioglossum

B. dog

C. onion

D. apple

**Answer:**



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41. A fall in glomerular filtration rate (GFR).....

- A. adrenal medulla to release adrenaline
- B. juxtaglomerular cells to release rennin
- C. posterior pituitary to release vasopressin
- D. adrenal cortex to release aldosterone

**Answer:**



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42. In a 3.2 Kbp long piece of DNA, 820 adenine bases were found. What would be the number of cytosine bases?

- A. 780

B. 1560

C. 740

D. 1480

**Answer:**



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**43.** Assisted reproductive technology does not include:

A. zygote extra Fallopian transfer

B. in vitro fertilisation and embryo transfer

C. artificial insemination

D. gamete intra Fallopian transfer

**Answer:**



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**44.** During menstrual cycle the cyclical changes takes place in:

- A. perimetrium
- B. endometrium
- C. corpus luteum
- D. myometrium

**Answer:**



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45. BOD refers to:

- A. the oxygen required for bacteria to grow in 1 L of effluent
- B. the amount of oxygen consumed if all the organic matter in 1000 mL of water were oxidised by bacteria:
- C. the amount of oxygen released if all the organic matter in 1000 mL of water were oxidised by bacteria
- D. the amount of oxygen released when all the organic matter was consumed by bacteria in 1 L of water

**Answer:**



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46. 'Sonalika' and 'Kalyan Sona' are high yielding varieties of

A. sugarcane

B. rice

C. Wheat

D. Maize

**Answer:**



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47. According to Robert Costanza, 50% of the total cost for ecosystem services goes to:

A. nutrient cycling



B. recreation

C. soil formation

D. climate regulation

**Answer:**



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**48.** Choose the correct statement.

A. Oxygen is vital in respiration for removal of hydrogen.

B. Pyruvate is formed in the mitochondrial matrix.

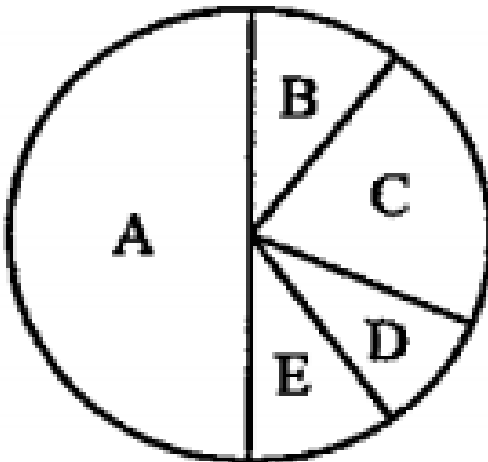
C. There is complete breakdown of glucose in fermentation.

D. During the conversion of succinyl Co-A to succinic acid  
a molecule of ATP is synthesised

**Answer:**

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**49.** Given below is the representation of the extent of global diversity of vertebrates. What groups does the portions represent?



A. A)Birds , B)Reptiles ,C)Fishes, D)Mammals, E)  
Amphibians.

B. A) Mammals, B)Birde, C) Fishes, D) Amphibians, E)  
Reptiles.

C. A) Fishes, B) Amphibians, C) Mammals, D) Birds, E)  
Reptiles.

D. A)Fishes, B)Mammals, C) Birds, D)Reptiles,  
E)Amphibians.

**Answer:**



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**50.** Select the mismatch pair from the following.

- A. Oxytocin - Contraction of uterine muscles
- B. Insulin - Gluconeogenesis
- C. Prolactin - Milk production in mammary glands
- D. Glucagon - Glycogenolysis

**Answer:**



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**51.** Which of the following would most likely help to slow down the greenhouse effect?

- A. Converting tropical forests into grazing land for cattle
- B. Ensuring that all excess paper packaging is burned to ashes

C. redesigning land fill dumps to allow ethane to be collected

D. Promoting the use of private rather than public transport

**Answer:**



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**52.** If an inheritable mutation is observed in a population at high frequency, it is referred to as:

A. sequence annotation

B. DNA polymorphism

C. linkage

D. expressed sequence tag

**Answer:**



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**53.** Find the wrongly matched pair(s).

A. Lungs of the planet - Amazon rain forest

B. Endemism - Species confined to one region and also  
found in other regions

C. Hot spot - Regions with species richness

D. Alien species- *Clarias gariepinus*

**Answer:**





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54. The function of a selectable marker is:

- A. eliminating transformants and permitting nontransformants
- B. identify ori site
- C. elimination of non transformants and permitting transformants
- D. to destroy recognition sites

**Answer:**



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**55.** The T-wave in an ECG represents:

- A. depolarisation of ventricles
- B. electrical excitation of atria
- C. beginning of systole
- D. return of the ventricles from excited state

**Answer:**



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**56.** In prokaryotes the glycocalyx when it is thick is called:

- A. Capsule
- B. slime layer



C. cell wall

D. mesosome

**Answer:**

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**57.** Which of the following statement is not correct in mass flow hypothesis?

A. As hydrostatic pressure in the phloem sieve tube increases pressure flow stops and sap is accumulated in phloem.-

B. The sugar is moved bidirectionally.

C. The sugar which is transported is sucrose.

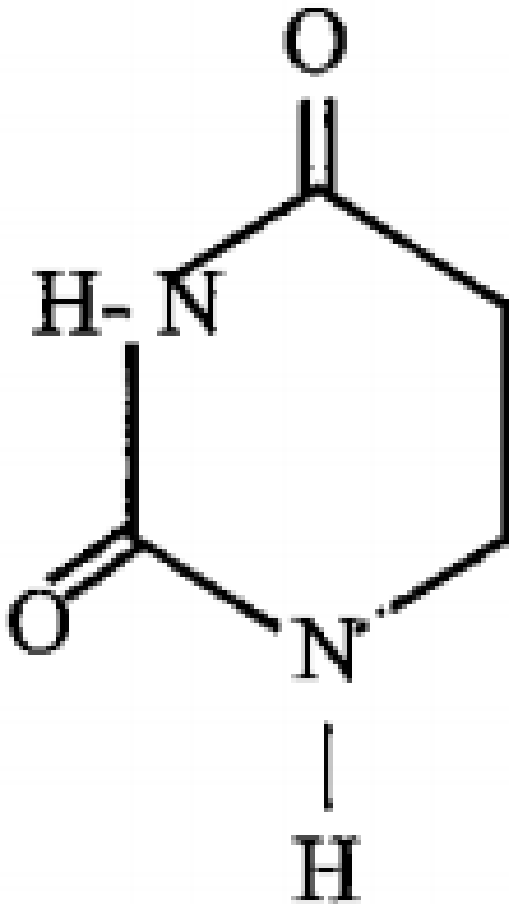
D. Loading of the phloem sets up a water potential gradient that facilitates the mass movement in the phloem.

**Answer:**



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58. Identify this structure:



A. adenylic acid

B. uracil

C. Cholesterol

D. adenosine

**Answer:**



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**59.** In 125 amino acid sequence if the codon for 25th amino acid is mutated to UAA, then

A. a polypeptide of 24 amino acids is formed

B. a polypeptide of 124 amino acids is formed

C. no polypeptide are formed

D. a polypeptide of 25 amino acids is formed

**Answer:**



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**60.** Three copies of chromosome-21 in a child with Down's syndrome have been analysed using molecular biology technology to detect any possible DNA polymorphism with reference to different alleles located on chromosome-21. Results showed that out of 3 copies 2 of the chromosomes of the child contain the same alleles, as one of the mother's alleles. Based on this when did the non-disjunction event most likely occur?

A. Paternal meiosis-I

B. Maternal meiosis-I

C. Paternal meiosis-II

D. Maternal meiosis-II

**Answer:**

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**61.** Which of the following statement is not correct , with respect to malaria?

A. RBC's rupture and release haemozoin which causes chills

B. Sporozoites multiply in blood.

C. Female Anopheles mosquito is the vector,

D. Malignant malaria is caused by Plasmodium falciparum

**Answer:**



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**62.** Ernst chain and Howard Florey contribution was

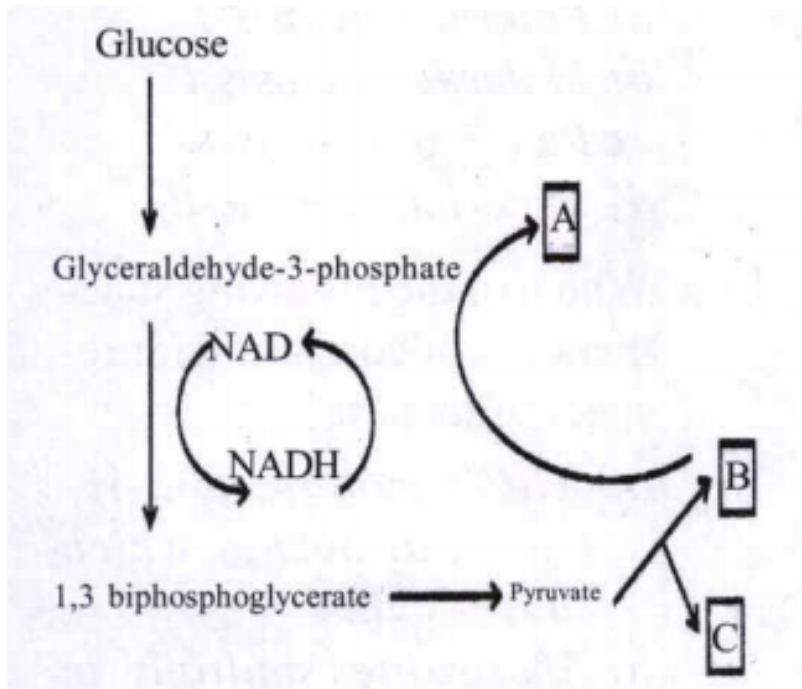
- A. establishing the potential of penicillin as an effective antibiotic
- B. discovery of streptokinase
- C. production of genetically engineered insulin
- D. discovery of DNA sequence

**Answer:**



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63. Choose the correct combination of labelling the molecules involved in the pathway or anaerobic respiration in yeast.



A. A) Acetaldehyde, B)  $CO_2$ , C) Ethanol

B. A) Ethanol, B)  $CO_2$ , C) Acetaldehyde

C. A) Ethanol, B) Acetaldehyde, C)  $CO_2$



D. A)  $CO_2$ , B) Ethanol, C) Acetaldehyde

**Answer:**



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**64.** The breakdown of detritus into small particles by detritivores is called:

A. leaching

B. humification

C. fragmentation

D. catabolism

**Answer:**



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65. The formation of two species from one ancestral species is known as:

- A. convergent evolution
- B. phyletic evolution
- C. allopatry
- D. divergent evolution

**Answer:**



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**66.** A scrubber in the exhaust of a chemical industrial plant removes:

- A. gases like ozone or methane
- B. gases like sulphur dioxide
- C. gases like nitrous oxide
- D. particulate matter of the size 5 micrometers or above

**Answer:**

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**67.** With respect to DNA fragmentation ,Statement (A) Gel electrophoresis and elution are two important processes.

Statement (B) After staining with ethidium bromide it has to be exposed to UV light.

- A. Only A is correct.
- B. Both A and B are correct.
- C. Only B is correct.
- D. Only A is correct and B is incorrect

**Answer:**

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**68.** The pioneer species in Xerarch and hydrarch succession are respectively:

- A. lichens and phytoplanktons

B. lichens and sedges

C. phytoplanktons and lichens

D. lichens and rooted hydrophytes

**Answer:**

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**69.** Hibernating animals have tissues containing mitochondria with a membrane protein that accelerates electron transport while blocking the synthesis of ATP. What is the consequence of this?

A. Hibernating animals can synthesis fat instead of wasting energy of respiration:-

B. Energy is saved because glycolysis and the citric acid cycle shuts down

C. Pyruvate is converted to lactic acid by anaerobic fermentation

D. The energy of respiration is converted into heat

**Answer:**



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**70.** Which of the following conditions correctly describes the manner of determining the sex in the given example?

A. Homozygous sex chromosome XX produce male in *Drosophila*

B. XO type of sex determines male sex in grasshopper

C. Homozygous sex chromosome ZZ determine female sex  
in birds

D. XO condition in human as found in Klinefelter's  
syndrome determines female sex

**Answer:**



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**71.** Natural killer lymphocytes are an example for:

A. physical barrier

B. cytokine barrier

C. cellular barrier

D. physiological barrier

**Answer:**



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**72.** The codon AUG has dual function. It is initiation codon and also codes for:

A. phenylalanine

B. serine

C. formaldehyde

D. methionine

**Answer:**



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73. Identify the wrong statement:

- A. Alleles b and c also produce sugar
- B. Alleles  $I^A$  and  $I^B$  produce sugars
- C. When  $I^B$  and b or l are present only  $I^B$  is expressed
- D. Both  $I^A$  and  $I^B$  are present together and they express because of co-dominance

Answer:



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74. Continued self-pollination results in:

- A. formation of unisexual flowers
- B. inbreeding depression
- C. gametes loose vigour
- D. self-incompatibility

**Answer:**



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**75. Which vector can clone only a small fragment of DNA?**

- A. Plasmid
- B. Bacterial artificial chromosome
- C. Cosmid
- D. Yeast artificial chromosome

**Answer:**



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**76.** Seeds without fertilisation is obtained from:

- A. polyembryony
- B. parthenocarpy
- C. dormancy
- D. apomixis

**Answer:**



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77. With respect to Eichhornia

Statement A: It drains off oxygen from water and is seen growing in standing water.

Statement B: It is an indigenous species of our country.

- A. Only statement A is correct and B is wrong.
- B. Both statement A and B are correct.
- C. Only statement B is correct and A is wrong.
- D. Both statement A and B are wrong.

**Answer:**



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78. Identify the phylum A

*Animalia* → *Tissue*  $\nabla$  *e* → *Bilateral* → *Acoelomate* → A

- A. Hemichordate
- B. Aschelminthes
- C. Platyhelminthes
- D. Ctenophora

**Answer:**

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79. During sewage treatment biogas produced includes:

- A. hydrogen sulphide, nitrogen, methane

B. methane, oxygen, hydrogen sulphide

C. methane, hydrogen sulphide, carbon dioxide

D. hydrogen sulphide, methane, sulphur oxide

**Answer:**



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**80.** The ancestors of salamanders are:

A. Ichthyophis

B. Jawless fish

C. Amphioxus

D. Coelacanth

**Answer:**



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**81.** Hissardale is a breed of sheep developed by\_\_\_\_\_

- A. horse with donkey
- B. merino ewes with Bikaneri rams
- C. superior bull with superior cow
- D. Bikaneri ewes with Merino Rams

**Answer:**



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**82.** The nitrogen base found only DNA is also called:

A. uracil

B. 5-methyl uracil

C. guanine

D.  $NH_4Cl$

**Answer:**



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**83.** The hormone which acts on Sertoli cells and stimulates the process of spermiogenesis is named:

A. GnRH



B. androgen

C. FSH

D. LH

**Answer:**



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**84.** Which of the following statement is correct?

A. prokaryotes there are no membrane bound cell organelles.

B. Cells of all living organisms have a nucleus.

C. Cells are formed de novo from abiotic materials.

D. Both animal and plant cells have a well defined cell wall.

**Answer:**

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**85.** The element responsible for the ring structure of chlorophyll and maintenance of ribosome:

A.  $Ca^{2+}$

B.  $Mg^{2+}$

C. S

D.  $K^+$

**Answer:**



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**86.** One hormone hastens maturity period in juvenile conifers, a second hormone controls xylem differentiation, while the third increases the tolerance of plants to various stresses. They are respectively.

- A. Gibberellin, auxin, cytokinin
- B. Auxin, gibberellins, cytokinin
- C. Gibberellin, auxin, ABA
- D. Auxin, gibberellins, ABA

**Answer:**





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87. Which of the following is not an ex situ conservation?

- A. Cryopreservation
- B. Seed bank
- C. Biosphere reserves
- D. Botanical garden

**Answer:**



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88. If 30 J of energy is trapped at producer level, then how much energy will be available to peacock as food in the

following chain? *Plant* → *Mice* → *Snake* → *Peacock*

A.  $0.3j$

B.  $0.03j$

C.  $0.0003j$

D.  $0.003j$

**Answer:**



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