

# **BIOLOGY**

# BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

# **NEET 2018**

# Exercise

- 1. Oxygen is not produced during photosynthesis by
  - A. Cycas
  - B. Nostoc
  - C. Green sulphur bacteria
  - D. Chara

Answer: C



2. Double fertilisation is

A. fusion of two male gametes with one egg

B. fusion of one male gamete with two polar nuclei

C. fusion of two male gametes of pollen tube with two different eggs

D. syngamy and triple fusion

#### **Answer: D**



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**3.** Which one of the following plants shows a very close relationship with a species of moth, where none of the two can complete its life cycle without the other

A. Banana



C. Hydrilla

D. Viola

# **Answer: B**



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4. Pollen grains can be stored for several years in liquid nitrogen having a temperature of

A.  $-196\,^{\circ}\,C$ 

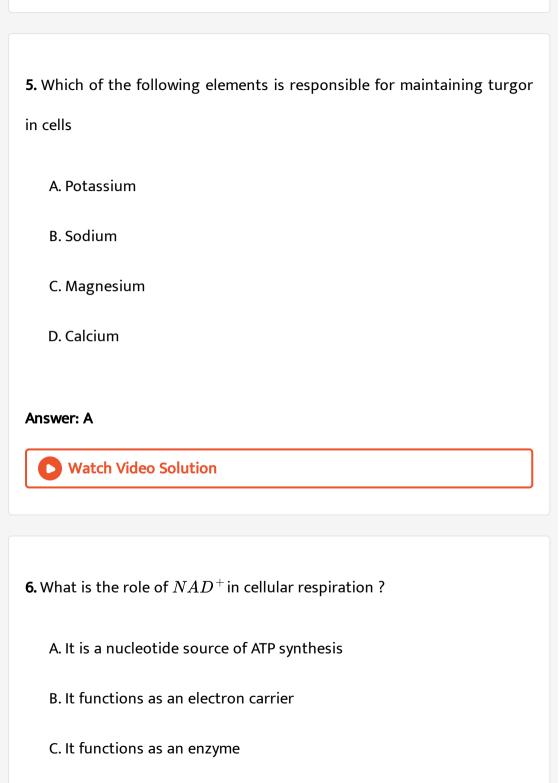
 $B.-80^{\circ}C$ 

 $\mathsf{C.}-120\,^{\circ}\,C$ 

D.  $-160^{\circ}C$ 

# Answer: A





D. It is the final electron acceptor for anaerobic respiration				
Answer: B				
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7. In which of the following forms is iron absorbed by plants				
A. Free element				

B. Ferrous

C. Ferric

**Answer: C** 

D. Both ferric acid and ferrous

**8.** Which of the following is commonly used as a vector for introducing a DNA fragment in human lymphocytes ?

A.  $\lambda$  phage

B. Ti-plasmid

C. Retrovirus

D. pBR 322

#### **Answer: C**



**9.** Use of bioresources by multinational companies and organisations with out authorisation from the concerned country and its people is called

A. biodegradation

B. biopiracy

D. bioexploitation  Answer: B  Watch Video Solution  10. In India , the organisation responsible introducing genetically modified organisation	C. bio-infringement				
Watch Video Solution  10. In India , the organisation responsible	D. bioexploitation				
Watch Video Solution  10. In India , the organisation responsible					
10. In India , the organisation responsible	Answer: B				
	Watch Video Solution				
introducing genetically modified organisation	<b>10.</b> In India , the organisation responsible				
	introducing genetically modified organisation				

for assessing the safety of n for public use is

- A. Research Committee on Genetic Manipulation (RCGM)
- B. Council for Scientific and Industrial Research (CSIR)
- C. Indian Council of Medical Research (ICMR)
- D. Genetic Engineering Appraisal Committee (GEAC)

#### **Answer: D**



- 11. The correct order of steps in Polymerase Chain Reaction (PCR) is
  - A. Denaturation, Extension, Annealing
  - B. Annealing, Extension, Denaturation
  - C. Extension, Denaturation, Annealing
  - D. Denaturation, Annealing, Extension

#### **Answer: D**



- 12. Select the correct match
  - A. TH Morgan Transduction
  - B.  $F_2 imes ext{Recessive parent Dihybrid cross}$
  - C. Ribozymes Nucleic acid
  - D. G. Mendel Transformation



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**13.** A 'new variety of rice was patented by a foreign company though such varieties have been present in India for a long time. This is related to

- A. Lerma Rojo
- B. Sharbati Sonora
- C. Co-667
- D. Basmati

#### **Answer: D**



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14. Which one of the following pairs is wrongly matched?

- A. XO type sex-determination Grasshopper B. ABO blood grouping - Codominance C. Strach synthesis in pea - Multiple alleles
  - D. TH Morgan Linkage



- 15. Select the correct statement
  - A. Spliceosomes take part in translation
  - B. Punnett square was developed by a British scientist
  - C. Franklin Stahl coined the term 'linkage'
  - D. Transduction was discovered by S. Altman

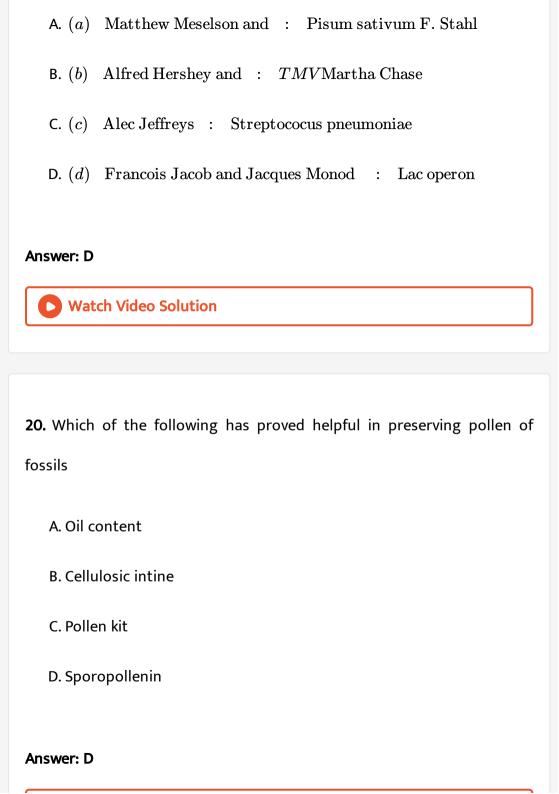
## Answer: B



16. The experimental proof for semiconservative replication of DNA was
first shown in a
A. plant
B. bacterium
C. fungus
D. virus
Answer: B
Answer: B  Watch Video Solution
Watch Video Solution
Watch Video Solution
17. Which of the following organisms breeds only once in lifetime ?  A. Mango
Watch Video Solution  17. Which of the following organisms breeds only once in lifetime ?

D. Papaya
nswer: C
Watch Video Solution
8. Offsets are produced by
A. parthenocarpy
B. mitotic divisons
C. meiotic divisons
D. parthenogenesis
unswer: B
Watch Video Solution

19. Select the correct match.





# 21. Natality refers to

- A. number of individuals leaving the habitat
- B. birth rate
- C. death rate
- D. number of individuals entering a habitat

#### **Answer: B**



22. World Ozone Day is celebrated on

- A. 16th September
- B. 21st April
- C. 5th June

D. 22nd April				
Answer: A  Watch Video Solution				
23. Which of the following is a secondary pollutant?				
A. $SO_2$				
B. $CO_2$				
C. CO				
D. $O_3$				
Answer: D				
Watch Video Solution				
<b>24.</b> Niche is				

- A. the range of temperature that the organism needs to live
- B. the physical space where an organism lives
- C. all the biological factors in the organism's environment
- D. the functional role played by an organism where it lives

#### Answer: D



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**25.** What type of ecological pyramid would be obtained with the following

data?

Secondary consumer : 120 g

Primary consumer : 60 g

Primary producer: 10 g

- A. Upright pyramid of numbers
- B. Pyramid of energy
- C. Inverted pyramid of biomass

D. Upright pyramid of biomass



26. In stratosphere, which one of the following elements acts as a catalyst in degradation of ozone and release of molecular oxygen?

- A. Fe
- B. Cl
- C. Carbon
- D. Oxygen

# **Answer: B**



27. The two functional groups characteristic of sugars are
A. Carbonyl and phosphate
B. Carbonyl and methyl
C. Hydroxyl and methyl
D. Carbonyl and hydroxyl
Answer: D
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28. Which among the following is not a prokaryote
A. Nostoc
B. Mycobacterium
C. Saccharomyces
D. Oscillatoria

#### **Answer: A**



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- 29. The Golgi complex participates in
  - A. respiration in bacteria
  - B. formation of secretory vesicles
  - C. fatty acid breakdown
  - D. activation of amino acid

#### **Answer: B**



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**30.** Which of the following is not a product of light reaction of phtosynthesis

A. NADPH B. NADH C. ATP D. Oxygen **Answer: B Watch Video Solution** 31. Which of the following is true for nucleolus? A. It takes part in spindle formation B. It is a membrane-bound structure C. Larger nucleoli are present in dividing cells D. It is a site for active ribosomal RNA synthesis Answer: D **Watch Video Solution** 

**32.** Stomatal movement is not affected by

A.  $O_2$  concentration

B. Light

C. Temperature

 $\operatorname{D.}{CO_2} \operatorname{concentration}$ 

#### Answer: A



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**33.** The stage during which separation of the paired homologous chromosomes begin is

A. diakinesis

B. diplotene

C. pachytene

D. zygotene
Answer: B
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<b>34.</b> Stomata in grass leaf are
A. rectangular
B. kidney-shaped
C. dumb-bell-shaped
D. barrel-shaped
Answer: C
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<b>35.</b> Secondary xylem and phloem in dicot stem are produced by

A. phellogen
B. vascular cambium
C. apical meristems
D. axillary meristems
Answer: B
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<b>36.</b> Pneumatophores occur in
A. carnivorous plants
B. free-floating hydrophytes
C. halophytes
D. submerged hydrophytes
Answer:
Watch Video Solution

<b>37.</b> Casparian strips are present in the of the root
A. cortex
B. pericycle
C. epidermis
D. endodermis
Answer: D
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38. Plants having little or no secondary growth are
A. conifers
B. deciduous angiosperms
C. grasses

D. cycads
Answer: C
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<b>39.</b> Sweet potato is a modified
A. tap root
B. adventitious root
C. stem
D. rhizome
Answer: B
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<b>40.</b> Which one of the following statements is correct ?

- A. Horsetails are gymnosperms
- B. Selaginella is heterosporous, while Salvinia is homosporous
- C. Ovules are not enclosed by ovary wall in gymnosperms
- D. Stems are usually unbranched in both Cycas and Cedrus.



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- **41.** Select the wrong statement.
  - A. Pseudopodia are locomotory and feeding structures in sporozoans
  - B. Mushrooms belong to Basidiomycetes
  - C. Cell wall is present in members of Fungi and Plantae
  - D. Mitochondria are the powerhouse of the cell in all kingdoms except

Monera

Answer: A



42. After karyogamy followed by meiosis, spores are produced exogenously in

A. Agaricus

B. Alternaria

C. Neurospora

D. Saccharomyces

#### Answer: A



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43. Match the items given in Column I with those in Column II and select the correct option given below

	Column-l		Column-II
1	Herbariu m	1.	It is a place having a collection of preserved plants and animals.
2.	Key	ii,	A list that enumerates methodically all the species found in an area with brief description aiding identification.
3.	Museum	iii.	It is a place where dried and pressed plant specimens mounted on sheets are kept.
4.	Catalogue	iv.	A booklet containing a list of characters and their alternates which are helpful in identification of various taxa.

1 2 3 4 iv iii i 2 3 4 1 В. iii ii i iv c.  $\begin{pmatrix} 1 & 2 \\ i & iv \end{pmatrix}$ 3 4 iii ii 3 1 24 D. iii iv i ii

**Answer: D** 





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**46.** Which of the following options correctly represents the lung conditions in asthma and emphysema, respectively

A. Increased respiratory surface , Inflammation of bronchioles

B. Increased number of bronchioles , Increased respiratory surface

 $\hbox{C. Inflammation of bronchioles , Decreased respiratory surface}\\$ 

D. Decreased respiratory surface, Inflammation of bronchioles

#### Answer: C



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**47.** Match the items given in Column I with those in Column II and select the correct option given below

	Column I		Column II		
1	Tricuspid valve	i.	Between left atrium and left ventricle		
2	Bicuspid valve	ii.	Between right ventricle and pulmonary artery		
3	Semilunar valve	iii	Between right atrium and right ventricle		

48. Match the items given in Column I with those in Column II and select

٨	1	2	3
A.	i	ii	iii
<b>D</b>	1	2	3
В.	i	iii	ii
_	1	2	3
С.	iii	i	ii
_	1	2	3
υ.	ii	i	iii

# Answer: C



the correct option given below

	Column I	Column II
1.	Tidal volume	i. 2500–3000 mL
2.	Inspiratory reserve volume	ii. 11001200 mL
3.	Expiratory reserve volume	iii. 500–5 <b>50 mL</b>
4.	Residual volume	iv. 1000–1100 mL

A. i iv ii iii

B. 1 2 3 4
iii i v ii iii

C. 1 2 3 4
iii i iv ii

C. 1 2 3 4
iii ii i iv

D. 1 2 3 4
iv iii ii i

#### **Answer:**



**49.** The transparent lens is the human eye is held in its place by

A. smooth muscles attached to the iris

B. ligaments attached to the iris

- C. ligaments attached to the ciliary body D. smooth muscles attached to the ciliary body Answer: D **Watch Video Solution** 50. Which of the following is an amino acid derived hormone? A. Estradiol
  - B. Ecdysone
  - C. Epinephrine
  - D. Estriol



**51.** Which of the following hormones can play a significant role in osteoporesis

A. Estrogen and parathyroid hormone

B. Progesterone and aldosterone

C. Aldosterone and prolactin

D. Parathyroid hormone and prolactin

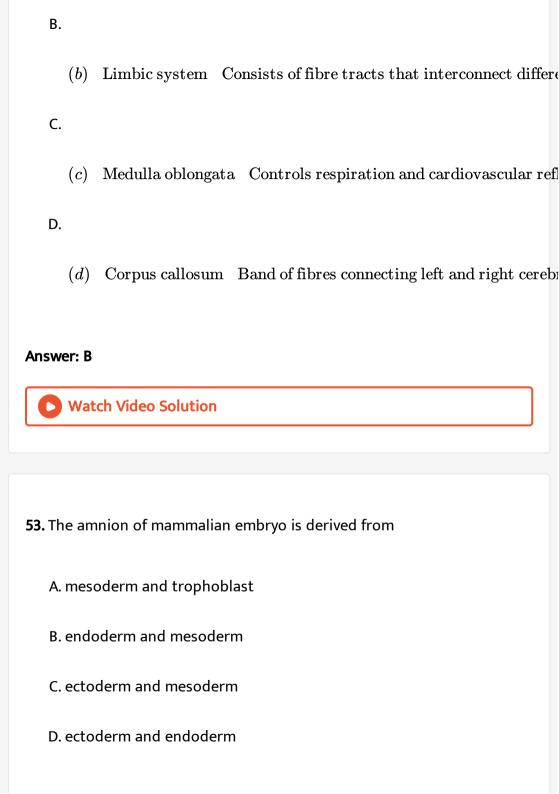
#### Answer:



**52.** Which of the following structures or region is incorrectly paired with its function ?

A.

(a) Hypothalamus Production of releasing hormones and regulation





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54. Hormones secreted by the placenta to maintain pregnancy are

- A. hCG , hPL , progestogens , estrogens
- $B.\,hCG$  , hPL , estrogens , relaxin , oxytocin
- C. hCG , hPL , progestogens , prolactin
- $\hbox{D. hCG , progestogens , estrogens , glucocorticoids}\\$

#### Answer: A



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55. The difference between spermiogenesis and spermiation is

A. In spermiogenesis, spermatozoa from Sertoli cells are released into the cavity of seminiferous tubules, while in spermiation spermatozoa are formed

B. In spermiogenesis, spermatozoa are formed, while in spermiation spermatids are formed

C. In spermiogenesis, spermatids are formed while in spermiation spermatids are formed

D. In spermiogenesis, spermatozoa are formed while in spermiation spermatozoa are released from Sertoli cells into the cavity of seminiferous tubules

### Answer:



- A. is an IUD
- B. increases the concentration of estrogen and prevents ovulation in females
- C. blocks estrogen receptors in the uterus preventing eggs from getting implanted
- D. is a post-coital contraceptive

### **Answer: C**



- 57. Ciliates differ from all other protozoans in
  - A. using pseudopodia for capturing prey
  - B. having a contractile vacuole for removing excess water
  - C. using flagella for locomotion
  - D. having two types of nuclei



**58.** Identify the vertebrate group of animals characterised by crop and gizzard in its digestive system

- A. Aves
- B. Reptilia
- C. Amphibia
- D. Osteichthyes

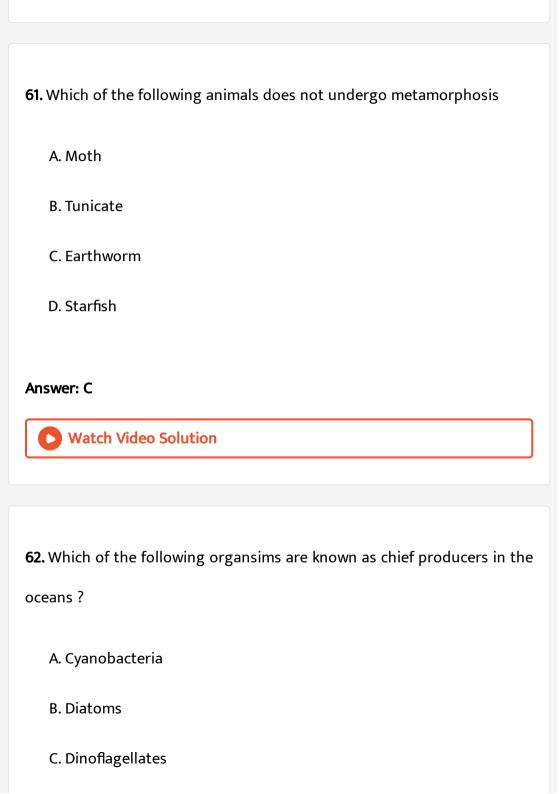
### Answer: A



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**59.** Which of the following features is used to identify a male cockroach from a female cockroach ?

A. Forewings with darker tegmina B. Presence of caudal styles C. Presence of a boat-shaped sternum on the 9th abdominal segment D. Presence of anal cerci **Answer: B** Watch Video Solution **60.** Which one of these animals is not a homeotherm? A. Camelus B. Chelone C. Macropus D. Psittacula Answer: B Watch Video Solution



D. Euglenoids
Answer: B
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<b>63.</b> Which one of the following population interaction is widely used in medical science for the production of antibiotics ?

A. Parasitism

B. Mutualism

C. Commensalism

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D. Amensalism

**Answer: D** 

	<b>64.</b> Al	of the	following	are inclu	ded in	ex-situ	conservation	except
--	---------------	--------	-----------	-----------	--------	---------	--------------	--------

- A. botanical gardens
- B. sacred groves
- C. wildlife safari parks
- D. seed banks

### **Answer: B**



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**65.** Match the items given in Column I with those in Column II and select the correct option given below .

V 27 2000 20 4044 - 144	Column-I	Column-II
1.	Eutrophication	i. UV-B radiation
2.	Sanitary landfill	ii. Deforestation
3.	Snow blindness	iii. Nutrient enrichment
4.	Jhum cultivation	iv. Waste disposal

### Answer: A



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66. In a growing population of a country.

A. reproductive and pre-reproductive individuals are equal in number

B. reproductive individuals are less than the post-reproductive

individuals

C. pre-reproductive individuals are more than the reproductive

individuals

D. pre-reproductive individuals are less than the reproductive individuals

## **Answer: C**

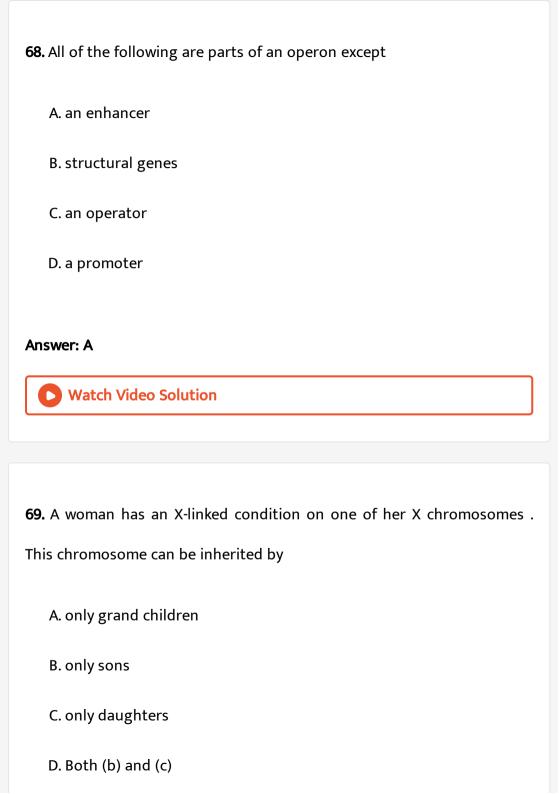


# 67. Which part of poppy plant is used to obtain the drug Smack?

- A. Roots
- B. Latex
- C. Flowers
- D. Leaves

## Answer: B







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70. According to Hugo de Vries, the mechanism of evolution is

- A. phenotypic variations
- B. saltation
- C. multiple step mutations
- D. minor mutations

### **Answer: B**



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**71.** AGGTATCGCAT is a sequence from the coding strand of a gene. What will be the corresponding sequence of the transcribed mRNA?

- A. ACCUAUGCGAU
- **B. UGGTUTCGCAT**
- C. AGGUAUCGCAU
- D. UCCAUGCGUA

### **Answer: C**



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**72.** Match the items given in Column I with those in Column II and select the correct option given below .

	Column-I	den a servicio de plane perte e Albert	Column-II
1.	Proliferative phase	i.	Breakdown of endometrial lining
2.	Secretory phase	ii.	Follicular phase
3.	Menstruation	iii.	Luteal phase

- - i iii ii

$$\label{eq:constraints} \begin{array}{ccccc} \text{C.} & 1 & 2 & 3 \\ \text{iii} & \text{ii} & \text{i} \\ \text{D.} & 1 & 2 & 3 \\ \text{iii} & \text{i} & \text{ii} \end{array}$$

## Answer: A



73. Match the items given in Column I with those in Column II and select

the correct option given below

Column-I

U.	rieriai calcuii	711.	glomeruli
3.	Renal calculi	iii.	Inflammation in
2.	Gout	İI.	Mass of crystallised salts within the kidney.
1.	Glycosuria	i.	Accumulation of the acid in joints.
			Column

A.  $\frac{1}{\text{ii}} \quad \frac{2}{\text{iii}} \quad \frac{3}{\text{i}} \quad \frac{4}{\text{iv}}$ 

iii

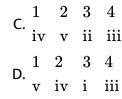
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74. Match the items given in Column I with those in Column II and select the correct option given below

	<b>Column-I</b> (Function)	Column-II (Part of Excretory System)
1.	Ultrafiltration	i. Henle's loop
2.	Concentration of urine	ii. Ureter
3.	Transport of urine	iii. Urinary bladder
4.	Storage of urine	iv. Malpighian corpuscle
		v. Proximal convoluted tubule

٨	1	2	3	4
A.	v	iv	i	ii
В	1	$rac{2}{\mathrm{i}}$	3	4
D.	iv	i	ii	iii



## **Answer: B**



# 75. Which of the following gastric cells indirectly help in erythropoiesis?

- A. Goblet cells
- B. Mucous cells
- C. Chief cells
- D. Parietal cells

## Answer: D



76. Match the items given in Column I with those in Column II and select

the correct option given below

	Column-I	Column-II
á	Fibrinogen	i. Osmotic balance
2	Globulin	ii. Blood clotting
3.	Albumin	iii. Defence mechanism

- A. 1 2 3 i iii ii
- $\mathsf{B.} \begin{array}{cccc} 1 & 2 & 3 \\ \mathrm{i} & \mathrm{ii} & \mathrm{iii} \end{array}$ 
  - 1 2 3
  - 1 2 3

**Answer: D** 



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77. Which of the following is an occupational respiratory disorder?

A. Botulism

- B. Silicosis
- C. Anthracis
- D. Emphysema

### Answer: B



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- 78. Calcium is important in skeletal muscle contraction because it
  - A. detaches the myosin head from the actin filament
  - B. activates the myosin ATPase by binding to it
  - C. binds to troponin to remove the masking of active sites on actin for
    - mysoin
  - D. Prevents the formation of bonds between the mysoin cross bridges
    - and the actin filament

## Answer: C



79. Nissl bodies are mainly composed of

A. nucleic acids and SER

B. DNA and RNA

C. proteins and lipids

D. free ribosomes and RER

# Answer: D



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**80.** Which one of the statements is incorrect?

A. Glycolysis operates as long as it is supplied with NAD that can pick

up hydrogen atoms

B. Glycolysis occurs in cytosol

- C. Enzymes of TCA cycle are present in mitochondrial matrix
- D. Oxidative phosphorylation takes place in outer mitochondrial membrane



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## 81. Select the incorrect match.

- $\hbox{A. Submetacentric chromosomes} \quad \quad \hbox{L-shaped chromosomes} \\$
- B. Allosomes Sex chromosomes
- C. Lampbrush chromosomes Diplotene bivalents
- D. Polytene chromosomes Oocytes of amphibians

## Answer: D



82. Which of the following terms describe humans dentition? A. Pleurodont, Monophyodont, Homodont B. Thecodont, Diphyodont, Heterodont C. Thecodont, Diphyodont, Homodont D. Pleurodont, Diphyodont, Heterodont **Answer: B Watch Video Solution** 83. Which of the following events does not occur in rough endoplasmic reticulum,

A. Cleavage of signal peptide

B. Protein glycosylation

D. Phospholipid synthesis

C. Protein folding



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**84.** Many ribosomes may associate with a single mRNA to form mutiple copies of a poolypeptide simultaneously. Such strings of ribosomes are termed as

A. plastidome

B. polyhedral bodies

C. polysome

D. nucleosome

## **Answer: C**



**85.** In which disease does mosquito transmitted pathogen cause chronic inflammation of lymphatic vessels

A. Ringworm disease

B. Ascariasis

C. Elephantiasis

D. Amoebiasis

### **Answer: C**



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**86.** Which of the following is not an autoimmune disease?

A. Alzheimer's disease

B. Rheumatoid arthritis

C. Psoriasis

D. Vitiligo

## **Answer: A**



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**87.** Among the following sets of examples for divergent evolution, select the incorrect option

- A. Brain of bat, man and cheetah
- B. Heart of bat, man and cheetah
- C. Forelimbs of man, bat and cheetah
- D. Eye of Octopus, bat and man

### Answer: D



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**88.** Conversion of milk to curd improves its nutritional value by increasing the amount of

A. vitamin $-B_{12}$
B. vitamin-A
C. vitamin-D
D. vitamin-E
Answer: A
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<b>89.</b> The term for similarity in organ structure seen in great diversity is
Or
The similarity of bone structure in the forelimbs of many vertebrates is an
example of
A. convergent evolution
B. analogy
C. homology
D. adaptive radiation

#### Answer: C



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**90.** Which of the following characteristics represents Inheritance of blood

groups in humans?

- 1. Dominance
- 2. Codominance
- 3. Multiple allele
- 4. Incomplete dominance
- 5. Polygenic inheritance
  - A. 2,4 and 5
  - B. 1, 2 and 3
  - C. 2, 3 and 5
  - D. 1, 3 and 5

**Answer: B** 

