



BIOLOGY

BOOKS - CENGAGE BIOLOGY (ENGLISH)

NEET 2018 PAPER

Mcq

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

Column I**Column II**

- | | |
|--------------|---|
| a. Herbarium | i. It is a place having a collection of preserved plants and animals. |
| b. Key | ii. A list that enumerates methodically all the species found in an area with brief description aiding identification. |
| c. Museum | iii. Is a place where dried and pre ssed plant specimens mounted on sheets are kept. |
| d. Catalogue | iv. A booklet containing a list of characters and their alternates which are helpful in identification of various taxa. |

A. *a b c d*
i iv iii ii

B. *a b c d*
iii ii i iv

C. *a b c d*
ii iv iii i

D. *a b c d*
iii iv i ii

Answer: D



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2. Which among the following is not a prokaryote?

A. Saccharomyces

B. Mycobacterium

C. Nostoc

D. Oscillatoria

Answer: A



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3. Select the wrong statement

A. Cell wall is present in members of Fungi and Plantae.

B. Mushrooms belong to Basidiomycetes.

C. Pseudopodia are locomotory and feeding structures in Sarcodines.

D. Mitochondria are the powerhouse of the cell in all kingdoms except Monera.

Answer: C



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

A. Neurospora

B. Alternaria

C. Agaricus

D. Saccharomyces

Answer: C



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5. Oxygen is not produced during photosynthesis by

A. Green sulphur bacteria

B. Nostoc

C. Cycas

D. Chara

Answer: A



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6. Which of the following organisms are known as chief producers in the oceans?

A. Dinoflagellates

B. Diatoms

C. Cyanobacteria

D. Duglenoids

Answer: B



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7. Ciliates differ from all other protozoans in

- A. using flagella for locomotion
- B. having a contractile vacuole for removing excess water
- C. using pseudopodia for capturing prey
- D. having two types of nuclei

Answer: D



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8. Which of the following statements is correct ?

- A. Ovules are not enclosed by ovary wall in gymnosperms.
- B. Selaginella is heterosporous, while Salvinia is homosporous.

C. Horsetails are gymnosperms.

D. Stems are usually unbranched in both *Cycas* and *Cedrus*.

Answer: A

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9. Which one is wrongly matched?

A. Uniflagellate gametes - *Polysiphonia*

B. Biflagellate zoospores - Brown algae

C. Gemma cups - *Marchantia*

D. Unicellular organism-*Chlorella*.

Answer: A

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10. Winged pollen grains are present in

A. Mustard

B. Cycas

C. Mango

D. Pinus

Answer: D



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11. Identify the vertebrate group of animal characterized by crop and gizzard in its digestive system.

A. Amphibia

B. Reptilia

C. Aves

D. Osteichthyes

Answer: C



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12. Which one of these animals is not a homoetherm ?

A. Macropus

B. Chelone

C. Camelus

D. Psittacula

Answer: B



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13. Pneumatophores occur in

- A. Halophytes
- B. Free-floating hydrophytes
- C. Carnivorous plants
- D. Submerged hydrophytes

Answer: A

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14. Sweet potato is a modified

- A. Stem
- B. Adventitious root
- C. Tap root
- D. Rhizome

Answer: B

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15. Stomata in grass leaf are

- A. Dumb-bell shaped
- B. Kidney shaped
- C. Rectangular
- D. Barrel shaped

Answer: A



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16. Secondary xylem and phloem in dicot stem are produced by

- A. Apical meristerms
- B. Vascular cambium
- C. Phellogen

D. Axillary meristems

Answer: B



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17. casparian strips are present in the of the root.

A. Epidermis

B. Pericycle

C. Cortex

D. Endodermis

Answer: D



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18. Plants having little or no secondary growth are

- A. Grasses
- B. Deciduous angiosperms
- C. Conifers
- D. Cycads

Answer: A

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19. Which of the following animals does not undergo metamorphosis?

- A. Earthworm
- B. Tunicate
- C. Moth
- D. Starfish

Answer: A

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20. Which of the following features is used to identify a male cockroach ?

- A. Presence of a boat shaped sternum on the 9th abdominal segment
- B. Presence of caudal styles
- C. Forewings with darker tegmina
- D. Presence of anal cerci

Answer: B

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21. Which of the following is true for nucleolus ?

- A. Larger nucleoli are present in dividing cells

- B. It is a membrane-bound structure.
- C. It takes part in spindle formation.
- D. It is a site for active ribosomal RNA synthesis

Answer: D

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22. The Golgi complex participates in

- A. Fatty acid breakdown
- B. Formation of secretory vesicles
- C. Respiration in bacteria
- D. Activation of amino acid

Answer: B

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23. Which of the following events does not occur in rough endoplasmic reticulum ?

- A. Protein folding
- B. Protein glycosylation
- C. Cleavage of signal peptide
- D. Phospholipid synthesis

Answer: D



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24. Many ribosomes may associate with a single mRNA to form multiple copies of a polypeptide simultaneously. Such strings of ribosomes are termed as .

- A. Polysome
- B. Polyhedral bodies

C. Plastidome

D. Nucleosome

Answer: A



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25. Select the incorrect match

A. Lampbrush chromosomes-Diplotene bivalents

B. Allosomes-Sex chromosomes

C. Submetacentric chromosomes-L-shaped chromosomes.

D. Polytene chromosomes-Oocytes of amphibians

Answer: D



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26. The two functional groups characteristic of sugars are

- A. hydroxyl and methyl
- B. carbonyl and methyl
- C. carbonyl and phosphate
- D. carbonyl and hydroxyl

Answer: D

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27. The stage during which separation of the paired homologous chromosomes begins is

- A. Pachytene
- B. Diplotene
- C. Diakinesis

D. Zygotene

Answer: B



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28. Stomatal movement is not affected by

A. Temperature

B. Light

C. O_2 concentration

D. CO_3 concentration

Answer: C



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29. In which of the following forms is iron absorbed by plants?

- A. Ferric
- B. Ferrous
- C. Free element
- D. Both ferric and ferrous

Answer: A



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30. Which of the following elements is responsible for maintaining turgor in cells ?

- A. Magnesium
- B. Sodium
- C. Potassium
- D. Calcium

Answer: C



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31. Which of the following is not a product of light reaction of photosynthesis?

A. ATP

B. NADH

C. NADPH

D. Oxygen

Answer: B



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32. What is the role NAD^+ in cellular respiration ?

A. It functions as an enzyme

- B. It functions as an electron carrier.
- C. It is a nucleotide source for ATP synthesis.
- D. It is the final electron acceptor for anaerobic respiration.

Answer: B

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33. Which of these statements is incorrect?

- A. Enzymes of TCA cycle are present in mitochondrial matrix.
- B. Glycolysis occurs in cytosol.
- C. Glycolysis operates as long as it is supplied with NAD that can pick up hydrogen atoms.
- D. Oxidative phosphorylation takes place in outer mitochondrial membrane.

Answer: D



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34. Which of the following terms describe human dentition ?

- A. Thecodont, Diphyodont, Homodont
- B. Thecodont, Diphyodont, Heterodont
- C. Pleurodont, Monophyodont, Homodont
- D. Pleurodont, Diphyodont, Heterodont

Answer: B



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35. Which of the following gastric cells indirectly help in erythropoiesis

?

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

Answer: D

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36. Which of the following option correctly represents the lung condition in asthma and emphysema respectively ?

- A. Inflammation of bronchioles, Decreased respiratory surface
- B. Increased number of bronchioles, Increased respiratory surface
- C. Increased respiratory surface, Inflammation of bronchioles
- D. Decreased respiratory surface, Inflammation of bronchioles.

Answer: A



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37. Match the items given column I with those in column II and select the correct option given below :

Column I

(a) Tidal volume

(b) Inspiratory
Reserve volume

(c) Expiratory
Reserve volume

(d) Residual volume

Column II

(i) 2500–3000 mL

(ii) 1100–1200 mL

(iii) 500–550 mL

(iv) 1000–1100 mL

A. $a \quad b \quad c \quad d$
 $iii \quad ii \quad i \quad iv$

B. $a \quad b \quad c \quad d$
 $iii \quad i \quad iv \quad ii$

C. $a \quad b \quad c \quad d$
 $i \quad iv \quad ii \quad iii$

D. $a \quad b \quad c \quad d$
 $iv \quad iii \quad ii \quad i$

Answer: B



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

A. Anthracis

B. Silicosis

C. Botulism

D. Emphysema.

Answer: B



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39. 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

- A. $\begin{matrix} a & b & c \\ iii & i & ii \end{matrix}$
- B. $\begin{matrix} a & b & c \\ i & iii & ii \end{matrix}$
- C. $\begin{matrix} a & b & c \\ i & ii & iii \end{matrix}$
- D. $\begin{matrix} a & b & c \\ ii & i & iii \end{matrix}$

Answer: A



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

Column I

Column II

- (a) Fibrinogen (i) Osmotic balance
(b) Globulin (ii) Blood clotting
(c) ALbumin (iii) Defence mechanism

- A. *a* *b* *c*
 iii *ii* *i*
- B. *a* *b* *c*
 i *ii* *iii*
- C. *a* *b* *c*
 i *iii* *ii*
- D. *a* *b* *c*
 ii *iii* *i*

Answer: D



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

Column I

Column II

- (a) Glycosuria (i) Accumulations of uric acid in joints.
(b) Gout (ii) Mass of crystallised salts within the kidney
(c) Renal calculi (iii) Inflammation in glomeruli
(d) Glomerular (iv) Presence of glucose in urine

- A. *a b c d*
ii iii iv i
- B. *a b c d*
i ii iii iv
- C. *a b c d*
ii iii i iv
- D. *a b c d*
iv i ii iii

Answer: D



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

Column-I (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

- A. $a \quad b \quad c \quad d$
 $iv \quad v \quad ii \quad iii$
- B. $a \quad b \quad c \quad d$
 $iv \quad i \quad ii \quad iii$
- C. $a \quad b \quad c \quad d$
 $v \quad iv \quad i \quad ii$
- D. $a \quad b \quad c \quad d$
 $v \quad iv \quad i \quad iii$

Answer: B



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43. Which of the following hormones can play a significant role in osteoporosis

- A. Aldosterone and Prolactin
- B. Progesterone and Aldosterone
- C. Estrogen and Parathyroid hormone
- D. Parathyroid hormone and Prolactin

Answer: C



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44. Calcium is important in skeletal muscle contraction because it

- A. blinds to troponin to remove the masking of active sites on actin for myosin
- B. activates the myosin ATPase by binding to it
- C. detaches the myosin head from the actin filament
- D. prevents the formation of bonds between the myosin cross bridges and the actin filament.

Answer: A



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45. Nissl bodies are mainly composed of

- A. Proteins and lipids
- B. DNA and RNA
- C. Nucleic acids and SER
- D. Free ribosomes and RER

Answer: D



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46. Which of the following structures or regions is incorrectly paired with its function ?

- A. Medulla oblongata : controls respiration and cardiovascular reflexes
- B. Limbic system : consists of fibre tracts that interconnect different regions of brain, controls movement

C. Hypothalamus : production of releasing hormones & regulation of temperature hunger and thirst

D. Corpus callosum : band of fibers connecting left and right cerebral hemispheres

Answer: B



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

A. ligaments attached to the ciliary body

B. ligaments attached to the iris

C. smooth muscles attached to the iris

D. smooth muscles attached to the ciliary body

Answer: A



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48. The 'amino acid derivative' among the following hormone is

- A. Epinephrine
- B. Ecdlyson
- C. Estradiol
- D. Estriol

Answer: A



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