



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### ANAL QUESTION PAPER

#### Example

1. Step of classification represents

A. Taxon

B. category

C. rank

D. All of the them

**Answer:**



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2. The most significant cgaracteristic feature of Dinoflagellate is

A. Yellow or Blue colour

B. Presence of two flagella

C. stiff cell wall

D. Release of toxin

**Answer:**



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**3.** In which group of algae 'floridean starch' is the stored food material?

A. Chlorophyceae

B. Phaeophyceae

C. Rhodophyceae

D. None of them.

**Answer:**



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**4. Paragatric cavity is found in**

A. Annelida

B. Echinodermata

C. Porifera

D. Cnidaria

**Answer:**



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5. Penicillium fungus belongs to the group.

A. BIOcomycetes

B. Ascomycetes

C. Basidiomycetes

D. Deuteromycetes.

**Answer:**



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**6.** A common example of large floral bud is

A. cabbage

B. spincach

C. cauliflower

D. cactus.

**Answer:**



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7. Example of lateral meristem is

A. fascicular vascular cambium

B. Interfascicular cambium

C. Cork cambium

D. All of them.

**Answer:**



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8. Anal cerci in cockroach is present in

- A. 8th segment
- B. 9th segment
- C. 10th segment
- D. 12 segment

**Answer:**



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9. Who first observed a living cell?

A. Robert Hooke

B. Robert Brown

C. Leenwenhoek

D. waldeyer

**Answer:**



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**10.** How many carbon atoms are present in arachidonic acid?

A. 16

B. 20

C. 24

D. 30

**Answer:**



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11. Actual reduction in chromosome number during meiosis occurs in

A. Prophase

B. Metaphase

C. Anaphase I

D. Telophase

**Answer:**



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12. How much ATP are produced in glycolysis and TCA cycle?

A. (+\$) - 2) ATP.

B.

C.

D.

**Answer:**



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**13.** Residual volumen (RV) of air in human lung is approximately

A. 1100 ml

B. 500 ml

C. 2000 ml

D. 1500 ml.

**Answer:**



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14. The WBC responsible for allergic disorder is

- A. Eosinophil
- B. Neutrophil
- C. Lymphocyte
- D. Erythrocyte.

**Answer:**



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**15.** What is the basic difference between hierarchy and key?



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**16.** Name five kingdoms as proposed in Whittaker's classification.



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**17.** What is mycorrhiza? State different types of mycorrhiza with example.



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**18.** What do you mean by 'GERL'?



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**19.** What is the 'quiescent stage' of cell cycle?



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**20.** Why is mitosis called as 'indirect cell division'?



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**21.** Compare endrarch and exarch xylem.



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**22.** Mention two significant differences between Cnidaria and ctenophora.



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**23.** All vertebrates are chordates but all chordates are not vertebrates. Justify the statement.



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**24.** Compare 'glycosidic bond' and 'peptide bond'.



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**25.** Mention the differences between agglutinogen and agglutinin. What is Landsteiner's Rule?



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**26.** Compare lymph and serum. What is the largest lymph gland in the body?



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**27.** Briefly explain interrelation between glycolysis and Krebs cycle.



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**28.** Briefly explain haplo-diplontic life cycle in Bryophytes with a flow chart only.



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**29.** Compare gymnosperm and angiosperm with reference to flower, fertilization and seed.



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**30.** Compare plasmogamy and karyogamy. Why is Deuteromycetes called as 'imperfect fungi'?

What is viroid?



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**31.** Name a 'living fossil' Arthropod. What is radula? What is the function of water vascular system?



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**32.** Mention the most meaningful characteristic of chondrichthyes. What is cloaca? Compare prototheria and eutheria.



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**33.** Name the respective BIOlum of class where following animal belongss: Hippocampus, Protuguese-man-of-war, sea hare, sea lily, silver fish, venous flower basket.



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**34.** Where is hepatic caeca present in cockroach? Mention the function of crop and gizzard in cockroach. Where is malpighian tubule located in the body of cockroach?



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**35.** What is haemocoel? What is alary muscle?



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**36.** Who proposed fluid mosaic model?



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**37.** Show the pathway of glycolysis by a flow chart only (mention `ATP,NADH number of each step. Name of enzyme in each step is not mandatory). 'Glycolysis is the common phase of aerobic and anaerobic respiration' - Justify.



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**38.** Write the structure of B-DNA.



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**39.** Briefly explain the process of normal inspiration.



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**40.** What are the components of 'diffusion membrane' in lung?





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**41.** How much  $O_2$  is carried by 1 gm of Haemoglobin? What is the role of Pons in regulation of respiration?



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**42.** Briefly explain the process of normal inspiration.



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**43.** What is the 'active' site of enzyme



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**44.** Show the pathway of glycolysis by a flow chart only (mention `ATP,NADH number of each step. Name of enzyme in each step is not mandatory). 'Glycolysis is the common phase of aerobic and anaerobic respiration' - Justify.



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**45.** Show the pathway of Krebs cycle by a flow chart only (mention  $GTP$ ,  $NAD^+$ ,  $FAD^+$ ,  $CO_2$ . Carbon number of each step name of enzyme (not mandatory). What do you mean by oxidative decarboxylation?



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**46.** Explain different methods of transport of  $CO_2$  in blood. Write a brief note on oxygen dissociation curve. What is "emphysema"?



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**47.** What is double circulation?



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