BIOLOGY

BOOKS - UNITED BOOK HOUSE

QUESTION PAPER 2017 (1)

Example

1. Which of the following is not a characteristic feature of arthropods?

1. Jointed appendage

2. Muscular foot

3. Compound eye

4. Chitnious exoskeleton

A. 1. Jointed appendage

B. 2. Muscular foot

C. 3. Compound eye

D. 4. Chitnious exoskeleton

Answer:

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2. Which one of the following is not a characteristic feature of Bryophyte?

1. Plant body is thalloid

2. Sporophyte is parasitic over the gametophyte

3. Presence of Oogonium

4. Presence of Parenchymatous tissue.

A. Plant body is thalloid

B. SporoBIOte is parasitic over the gametoBIOte

C. Presence of Oogonium

D. Presence of Parenchymatous tissue.

Answer:

3. Simple tissue with very thick and lignified cell wall is called:

1. Parenchyma

2. Collenchyma

3. Sclerenchyma

4. Xylem

A. Parenchyma

B. Collenchyma

C. Sclerenchyma

D. Xylem

Answer:

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4. Intercalcated disc is found in:

1. Skeletal muscle

2. Smooth muscle

3. Cardiac muscle

4. None of these.

    A. Skeletal muscle

    B. Smooth muscle

    C. Cardiac muscle

    D. None of these.

Answer:

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5. Which one of the following is a part of alimentary canal of Cockroach?

1. Coxa

2. Mandible

3. Elytra

4. Antenna.

    A. Coxa

    B. Mandiable

    C. Elytra

    D. Antenna.

Answer:

6. Spindle fibres are made up of:

1. microbodies

2. microfilaments

3. microtubule

4. microfibrils

A. microboides microfilaments

B. microtubule

C. microfibrils

D.

Answer:

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7. r-RNA is synthesized in:

1. Nucleus

2. Nucleous

3. nuclear reticulum

4. Nucleoplasm.

A. Nucleus

B. Nucleous

C. nuclear reticulum

D. Nucleoplasm.

Answer:

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8. Coconut water contains:

1. Abscissic Acid

2. Cytokinin

3. Auxin

4. Gibberellin

A. Abscissic Acid

B. Cytokinin

C. Auxin

D. Gibberellin

Answer:

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9. Elongation of internodes is controlled by:

1. Auxin

2. Gibberelin

3. Cytokinin

4. Absicissic acid

    A. Auxin

    B. Gibberelin

    C. Cytokinin

    D. Absicissic acid.

Answer:

10. Glycolysis process generates a net gain of

_____ number of ATP.

a. 2

b. 4

c. 3

d. none of these

A. 2

B. 4

C. 3

D. none of the these

Answer:

11. When only carbohydrate is oxidised in respiration then the value of R.Q. is

A. 0

B. more than one

C. less than one

D. 1

Answer:

12. Which one of the following is not a

property of white muscle?

1. Z-line is narrow

2. Presence of reduced amount of myoglobin

3. Twitch time is much less

4. Can function for a long time, do not get fatigued easily.

A. Z-linc is narrow

B. Presence of reduced amount of myoglobin

C. Twitch time is much less

D. Can funtion for a long time, do not get fatigued easily.

Answer:

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13. Stroke volume of Cardiac output in human

is:

1. 50 ml

2. 700 ml

3. 70 ml

4. 7 ml

   A. 50 ml

   B. 700 ml

   C. 70 ml

D. 7 ml

Answer:

14. Which of the following is the disorder of respiratory system?

a. Emphysema

b. Asthma

c. Both (a) and (b)

d. Angina pectoris

A. EmBIOsema

B. Asthma

C. Both (a) and (b)

D. Angina pectoris.

Answer:

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15. Define incomplete flower.

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16. Name the BIOsiological process used to form curd from milk.

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17. Name the hormone which is produced during ripening of fruits.

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18. Name the part of alimentary canal where a few vitamins are synthesized.

19. Name the part of alimentary canal where Cholecystokinin Pancreozymin (cck Pz) is secreted.

20. Mention two functions of Liver in relation to protein metabolism.

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21. Give two distinguishing features of superclass Agnatha of phylum Chordata.

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22. Distinguish between marginal and axial placentation.

23. Define cartilagenous tissue. Mention one important difference between cartilage and bone.

24. What is nucleotide? Distinguish it from nucleoside.

25. What is denitrification? Mention one bacterium responsible for it.

26. Name one bacterium responsible for symbiotic nitrogen fixation. What do you mean by Leg-haemoglobin?

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27. Mention two major functions of lymph.

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28. Distinguish between Osteoporosis and Ostearthritis.

29. Mention any four characteristic features of kingdom Fungi. Give example of an economically important fungus.

30. Give any four characteristic features of phylum Echinodermata. Give the name of any animal belonging to this phylum.

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31. Disntiguish between male and female cockroach. What is mushroom gland?

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32. What is Perianth?

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33. What is aggregate fruit? Give an example of a false fruit.

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34. Describe the 'induced fit' model of enzyme action. What do you mean by allosteric

enzyme?

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35. What do you understand by the terms 'crossing over' and 'Chiasma'?

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36. Describe different funtions of Polysaccharides.

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37. Briefly describe photoperiodism in plants.

Give an example of day neutral plant.

38. Mention BIOsiological funtions of Auxin and Gibberellin. Name one dormancy inducing hormone.

39. Write a short note on absorption of water by root. What is transpiration pull?

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40. Distinguish between Cerebral cortex and Cerebellum.

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41. Explain with schematic diagram, the process of 'chloride shift' regarding tranport of CO_2 in blood.

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42. Why is the diamter of efferent arteriole supplying a nephron smaller that its afferent arteriole? Comment on reabsorption of water in kidney?

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43. Describe the ultramicroscopic structure of Mitochondria with labelled digram.

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44. with a labelled diagram describe the ultrastructure of chloroplastid.

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45. What do you understand by Hill reaction?

46. Show the process of glycolysis in a flow chart.

47. Briefly describe the neural regulation of Cardiac activity. What do you mean by

hypertension?

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48. Name any one abnormal constituent of urine.

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