



**INTERNATIONAL SCHOOL**

**Class - Pre. to V<sup>th</sup>**



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Session - 2020-21

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**Sub:- Math, Phy., Che., Bio., Eng.**

**Director- Jaikant Sir**

Email:- [inspiredubhr@gmail.com](mailto:inspiredubhr@gmail.com)

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Contact Nos. 7762272224, 7402222222

## Class 10 Science MCQs Chapter 6 Life Process

1. Which of the following are energy foods?

- (a) Carbohydrates and fats
- (b) Proteins and mineral salts
- (c) Vitamins and minerals
- (d) Water and roughage

2. In which mode of nutrition an organism de-ives its food from the body of another living organism without killing it?

- (a) Saprotophrophic nutrition
- (b) Parasitic nutrition
- (c) Holozoic nutrition
- (d) Autotrophic nutrition

3. The mode of nutrition found in fungi is:

- (a) Parasitic nutrition
- (b) Holozoic nutrition
- (c) Autotrophic nutrition
- (d) Saprotophrophic nutrition

4. Roots of the plants absorb water from the soil through the process of:

- (a) diffusion
- (b) transpiration
- (c) osmosis
- (d) None of these

5. The site of photosynthesis in the cells of a leaf is

- (a) chloroplast
- (b) mitochondria



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- (c) cytoplasm
- (d) protoplasm

6. In amoeba, food is digested in the:

- (a) food vacuole
- (b) mitochondria
- (c) pseudopodia
- (d) chloroplast

7. Which of the following events in the mouth cavity will be affected if salivary amylase is lacking in the saliva?

- (a) Starch breaking down into sugars.
- (b) Proteins breaking down into amino acids.
- (c) Absorption of vitamins.
- (d) Fats breaking down into fatty acids and glycerol.

8. Which region of the alimentary canal absorbs the digested food?

- (a) Stomach
- (b) Small intestine
- (c) Large intestine
- (d) Liver

9. The contraction and expansion movement of the walls of the food pipe is called:

- (a) translocation
- (b) transpiration
- (c) peristaltic movement
- (d) digestion



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10. When a few drops of iodine solution are added to rice water, the solution turns blue- black in colour. This indicates that rice water contains:

- (a) fats
- (b) complex proteins
- (c) starch
- (d) simple proteins

11. The exit of unabsorbed food material is regulated by

- (a) liver
- (b) anus
- (c) small intestine
- (d) anal sphincter

12. What are the products obtained by anaerobic respiration in plants?

- (a) Lactic acid + Energy
- (b) Carbon dioxide + Water + Energy
- (c) Ethanol + Carbon dioxide + Energy
- (d) Pyruvate

13. The breakdown of pyruvate to give carbon di-oxide, water and energy takes place in

- (a) cytoplasm
- (b) mitochondria
- (c) chloroplast
- (d) nucleus

14. Glycolysis process occurs in which part of the cell?

- (a) Cytoplasm
- (b) Nucleus
- (c) Mitochondria
- (d) Chloroplast

15. Name the substances whose build up in the muscles during vigorous physical exercise may



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cause cramps?

- (a) Ethanol + Carbon dioxide + Energy
- (b) Lactic acid + Energy
- (c) Carbon dioxide + Water + Energy
- (d) Pyruvate

16. Name the pores in a leaf through which respiratory exchange of gases takes place.

- (a) Lenticels
- (b) Vacuoles
- (c) Xylem
- (d) Stomata

17. The respiratory pigment in human beings is:

- (a) carotene
- (b) chlorophyll
- (c) haemoglobin
- (d) mitochondria

18. Which plant tissue transports water and minerals from the roots to the leaf?

- (a) Xylem
- (b) Phloem
- (c) Parenchyma
- (d) Collenchyma

19. The movement of food in phloem is called:

- (a) transpiration
- (b) translocation



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- (c) respiration
- (d) evaporation

20. A blood vessel which pumps the blood from the heart to the entire body:

- (a) artery
- (b) capillary
- (c) Vein
- (d) Haemoglobin

21. Name a circulatory fluid in the human body other than blood.

- (a) Platelets
- (b) RBC
- (c) Lymph
- (d) Plasma

22. Single circulation, i.e., blood flows through the heart only once during one cycle of passage through the body, is exhibited by which of the following:

- (a) hyla, rana, draco
- (b) whale, dolphin, turtle
- (c) labeo, chameleon, salamander
- (d) hippocampus, exocoetus, anabas

23. Name the tube which connects the kidneys to the urinary bladder.

- (a) Urethra
- (b) Nephron
- (c) Tubule
- (d) Ureter

24. Which part of nephron allows the selective reabsorption of useful substances like glucose, amino acids, salts and water into the blood capillaries?

- (a) Tubule
- (b) Glomerulus



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(c) Bowman's capsule

(d) Ureter

25. Where is the dirty blood in our body filtered?

- (a) Heart
- (b) Lungs
- (c) Ureter
- (d) Kidneys

26. The procedure used for cleaning the blood of a person by separating urea from it is called:

- (a) osmosis
- (b) filtration
- (c) dialysis
- (d) double circulation

27. Which is the correct sequence of body parts in the human alimentary canal?

- (a) Mouth → stomach → small intestine → large intestine → oesophagus
- (b) Mouth → oesophagus → stomach → small intestine → large intestine
- (c) Mouth → stomach → oesophagus → small intestine → large intestine
- (d) Mouth → oesophagus → stomach → large intestine → small intestine

28. Identify the correct path of urine in the human body.

- (a) Kidney → urinary bladder → urethra → ureter
- (b) Urinary bladder → ureter → kidney → urethra
- (c) Kidney → ureter → urethra → urinary bladder
- (d) Kidney → ureter → urinary bladder → urethra

29. Autotrophic organisms include



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- (a) bacteria and virus
- (b) bacteria and fungi
- (c) green plants and some bacteria
- (d) green plants and all bacteria

30. A gland not associated with the alimentary canal is

- (a) liver
- (b) salivary glands
- (c) pancreas
- (d) adrenal

31. Which of the following are chiefly digested in the stomach?

- (a) Carbohydrates
- (b) Proteins
- (c) Lipids
- (d) Fats

32. From the given picture of the digestive system, identify the part labelled as gastric gland.



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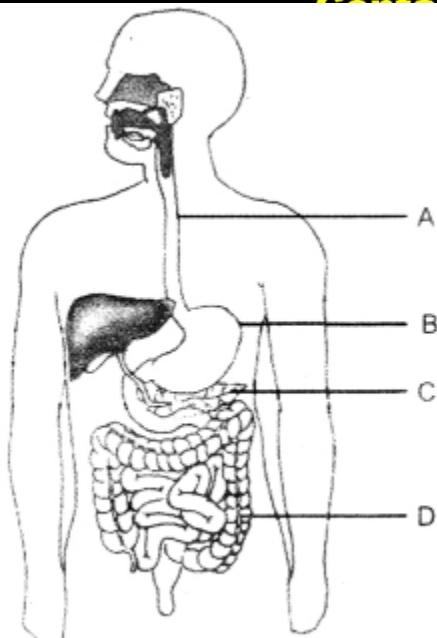
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- (a) A
- (b) B
- (c) C
- (d) D

33. Large intestine in man mainly carries out

- (a) absorption
- (b) assimilation
- (c) digestion of fats
- (d) digestion of carbohydrates

34. The part of the digestive system where no digestion takes place is

- (a) ileum



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- (b) stomach
- (c) mouth
- (d) oesophagus

35. The fermentation of glucose by yeast normally yields

- (a) alcohol, CO<sub>2</sub> and 36 ATP
- (b) CO<sub>2</sub>, H<sub>2</sub>O and 36 ATP
- (c) alcohol, CO<sub>2</sub> and 2ATP
- (d) lactic acid, CO<sub>2</sub> and 2 ATP

36. A large quantity of one of the following is removed from our body by lungs:

- (a) CO<sub>2</sub> and H<sub>2</sub>O
- (b) CO<sub>2</sub> only
- (c) FLO only
- (d) ammonia

37. In respiration, air passes through

- (a) Pharynx → nasal cavity → larynx → trachea bronchi → bronchioles
- (b) Nasal cavity → pharynx → larynx → trachea → bronchi → bronchioles
- (c) Larynx → nasal cavity' → pharynx → trachea
- (d) Larynx → pharynx trachea → lungs

38. A biochemical compound that readily combines with oxygen and distributes it throughout the human body is

- (a) water
- (b) urea



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- (c) haemoglobin
- (d) acetylcholine



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39. The process in which loss of water takes place in the form of water vapour through stomata is called

- (a) transportation
- (b) transpiration
- (c) guttation
- (d) translocation

40. In a closed circulatory system, blood is completely enclosed within

- (a) vessels
- (b) heart
- (c) skeleton
- (d) sinuses

41. Normal blood pressure (systolic/diastolic) is

- (a) 120/80 mm of Hg
- (b) 160/80 mm of Hg
- (c) 120/60 mm of Hg
- (d) 180/80 mm of Hg

42. Blood pressure is measured by an instrument called

- (a) barometer
- (b) sphygmomanometer
- (c) photometer
- (d) manometer



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43. Which of the following statements is not correct?

- (a) Deoxygenated blood is poured into right atrium of heart.
- (b) The excretory units of flatworms are flame cells.
- (c) Human kidney has about 1 million nephridia
- (d) Tracheids and vessels are non-living conducting tissues.

44. Which part of alimentary canal receives bile from the liver? [NCERT Exemplar Problems]

- (a) Stomach
- (b) Small intestine
- (c) Large intestine
- (d) Oesophagus

45. When air is blown from mouth into a test-tube containing lime water, the lime water turns milky due to the presence of [NCERT Exemplar Problems]

- (a) oxygen
- (b) carbon dioxide
- (c) nitrogen
- (d) water vapour

46. The filtration units of kidneys are called [NCERT Exemplar Problems]

- (a) ureter
- (b) urethra
- (c) neurons
- (d) nephrons

47. Oxygen liberated during photosynthesis comes from [NCERT Exemplar Problems]

- (a) water



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- (b) chlorophyll
- (c) carbon dioxide
- (d) glucose

48. The opening and closing of the stomatal pore depends upon [NCERT Exemplar Problems]

- (a) oxygen
- (b) temperature
- (c) water in guard cells
- (d) concentration of CO<sub>2</sub> in stomata

Direction (Q49 to Q53): In the following Questions, the Assertion and Reason have been put forward. Read the statements carefully and choose the correct alternative from the following:

- (a) Both the Assertion and the Reason are correct and the Reason is the correct explanation of the Assertion.
- (b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion.
- (c) Assertion is true but the Reason is false.
- (d) The statement of the Assertion is false but the Reason is true.

49. Assertion: When air is passed through lime water, lime water turns milky.

Reason: Air contains 78% nitrogen and 21% oxygen.

50. Assertion: Veins have thin walls to collect blood from different organs.

Reason: Blood in veins are not under pressure.

51. Assertion: Human being has a complex respiratory system.

Reason: Human skin is impermeable to gases.

52. Assertion: All proteins in our food are digested in small intestine only.

Reason: The protein digesting enzymes are released onto small intestine.



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53. Assertion: Human heart does not allow mixing of oxygen reach blood with carbon dioxide reach blood.

Reason: Human heart has different chambers.

54. The \_\_\_\_\_ is where the respiratory and digestive passage come together.

55. The conditions necessary for photosynthe-sis to take place are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

56. The process in which the digested food passes through the intestinal wall into blood stream is called \_\_\_\_\_.

57. The teeth covered with a sticky, yellowish layer of food particles and bacteria is called \_\_\_\_\_.

58. Iodine turns blue-black on reacting with \_\_\_\_\_.

59. The energy produced during respiration is stored in the form of ATP which stands for \_\_\_\_\_.

60. Pyruvic acid is a three carbon compound which is also known as \_\_\_\_\_.

61. The rate of breathing in \_\_\_\_\_ animals is much faster than in \_\_\_\_\_ animals.

62. The actual exchange of gases takes place in the \_\_\_\_\_ of the lungs.

63. \_\_\_\_\_ are long, thin, spindle shaped cell with pits in their thick cell walls.



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64. The liquid part of blood is called \_\_\_\_\_.

65. The expansion of an artery each time the blood is forced into it, is called \_\_\_\_\_.

66. Gums and resins are the \_\_\_\_\_ products of plants.

Direction (Q67 to Q68): Match Column I with Column II.

67.

Column I	Column II
Animal	Respiratory Organ
(i) Fish	(A) Trachea



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(ii) Birds

(B) Gills

(iii) Aquatic Arthropoda

(C) Lungs

(iv) Earthworm

(D) Moist cuticle

68.

Column I	Column II
Region of digestive system	Digestive juice
(A) Mouth	(i) Pancreatic juice
(B) Stomach	(ii) Intestinal juice



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(C) Duodenum

(iii) Gastric juice

(D) Small intestine

(iv) Saliva

69. Glomerulus acts as a dialysis bag. [True/ False]

70. Bowman's capsule is found in heart. [True/False]

71. Peristaltic movement of muscles occurs in the mouth to push food into alimentary canal. [True/False]

72. The release of energy in aerobic process is less than in anaerobic process. [True/False]

73. Before testing for starch, chlorophyll has to be removed from the leaf as it interferes in the test for starch due to its green colour. [True/False]

74. The process in which the absorbed food is taken in by body cells and used for energy, growth and repair is called egestion. [True/False]

75. The length of small intestine in a human adult is about 3.5 m. [True/False]

76. Carbohydrates are the components of our food which is digested by an enzyme which is present in saliva as well as in pancreatic juice. [True/False]



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77. Cytoplasm are the sites of aerobic respiration in the cells. [True/False]

78. The respiration in plants occurs at a fast rate whereas the respiration in animals occur at a much slower rate. [True/False]

79. What do you mean by life processes?

80. Name the activity of living beings which considered as indication of life?

81. Name the basic requirement of living organisms needed to obtain energy.

82. Name the process by which plants prepare food.

83. Mention the raw materials required for photosynthesis. [CBSE 2014]

84. Name four nutrients needed by the plants which are taken up from the soil.

85. Name the cell organelle in which photosynthesis occur. [DoE]

86. Name the green pigment present in the leaves of a plant.

87. In the experiment “Light is essential for photosynthesis”, why does the uncovered part of the leaf turn blue-black after putting iodine solution? [HOTS]

88. Name a unicellular organism which uses cilia to move food particles into its mouth.

89. Mention how organisms like bread moulds and mushrooms obtain their food.



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90. Classify the followings as saprotrophs or parasites:

leech, yeast, mushroom

91. Which enzyme present in saliva breaks down starch?

92. Why does our mouth 'water' when we see or eat a food which we really like?

93. Why does bread taste sweet on mastication?

94. Which pancreatic enzyme is effective in digesting proteins?

95. Where does digestion of fat take place in our body?

96. What is alimentary canal?

97. Define peristaltic movement? [DoE]

98. Name the longest part of the alimentary canal.

99. What is emulsification? [DoE]



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100. What is the name given to the biological catalyst which speed up the chemical reactions taking place in cells.

101. Name the muscle which regulates the exit of food from stomach to small intestine.

102. How does the acidic medium in the small intestine is converted into alkaline for pancreatic enzymes?

103. In which part of alimentary canal digestion does not occur?

104. Name the structure which regulates the exit of waste material.

105. State the basic difference between the process of respiration and photosynthesis.

106. Name the pigment present in human which aids in respiration.

107. Give one point which is common for both aerobic and anaerobic respiration.

108. Why is anaerobic respiration less efficient?

Fill in the Blanks

1. The exit of food from the stomach is regulated by a ..... muscle.



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2. .... is the longest part of the alimentary canal.
3. The process of breakdown of glucose, (a six-carbon molecule) into pyruvate, (a three-carbon molecule), takes place in the .....
4. .... is the site of the complete digestion of carbohydrates, proteins and fats.
5. Breaking of pyruvate using oxygen takes place in the .....
6. Rings of cartilage are present in the wind pipe to ensure that the .....
7. The blood has ..... cells which plug the leakage in the vessels by helping to clot the blood at the point of injury.
8. .... transports products of photosynthesis from the leaves to other parts of the plant.

# Thanks