

KCET Biology Answer Key 2026 (Unofficial)

| Questions | KCET Answer Key 2026 (Biology) |
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| <p>1. BOD of polluted water is estimated by measuring the amount of</p> <p>(1) Total organic matter</p> <p>(2) Oxygen evolution</p> <p>(3) Oxygen consumption</p> <p>(4) Biodegradable organic matter</p> | <p>(3) Oxygen consumption</p> |
| <p>2. Given below are two statements.</p> <p>Statement 1: Baculoviruses are pathogens that attack nematodes.</p> <p>Statement II: Baculoviruses are used as biological control agents in ecologically sensitive areas as they are species-specific in their action.</p> <p>In the light of the above statements, choose the correct answer from the options given below.</p> <p>(1) Both Statement I and Statement II are true</p> <p>(2) Both Statement I and Statement II are false</p> <p>(3) Statement 1 is true, but Statement II is false</p> <p>(4) Statement I is false, but Statement II is true</p> | <p>(4) Statement I is false, but Statement II is true</p> |
| <p>3. Technique to alter the chemistry of genetic materials, DNA and RNA, to introduce these into host organism and change the phenotype of the host is</p> <p>(1) Bioprocess engineering</p> <p>(2) Cloning</p> <p>(3) Genetic engineering</p> <p>(4) Transformation</p> | <p>(3) Genetic engineering</p> |

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| <p>4. Given below are two statements, Statement I: Restriction enzyme BamHI has its recognition site in tet region of pBR322. Statement II: E.coli having pBR322 with a desired DNA if inserted at BamHI site can grow in 1 medium containing tetracycline. In the light of the above statements, choose the correct answer from the options given below. (1) Both Statement I and Statement II are true (2) Both Statement I and Statement II are false (3) Statement I is true, but Statement II is false (4) Statement 1 is false, but Statement II is true</p> | <p>(3) Statement I is true, but Statement II is false</p> |
| <p>5. Match List 1 with List II List 1 List II (a) Visualization of DNA in gel electrophoresis (i) Chitinase (b) Precipitation of DNA (ii) Lysozyme (c) Breaking of cell wall of bacteria (iii) Chilled ethanol (d) Breaking of cell wall of fungus (iv) Ethidium bromid</p> | <p>(4) a - iv b - iii c = ii d - i</p> |
| <p>6. The human protein obtained from transgenic animals used to treat emphysema is (1) Insulin (2) a Lactalbumin (3) a - 1 antitrypsin (4) B-Lactalbumin</p> | <p>(3) a - 1 antitrypsin.</p> |
| <p>7. Given below are the sequence of events in the production of human insulin by Eli Lilly. a) Preparation of two DNA sequences corresponding to chain A and B of human insulin. b) Production of chain A and B separately. c) Introduction of chains in plasmids of E.coli. d) Extraction of chain A and B combining them by creating disulphide bonds. Choose the correct sequence of events. (1)(a), (b), (c), (d) (2)(a), (c), (b), (d) (3) (a), (b), (d), (c)</p> | <p>(2) (a), (c), (b), (d)</p> |

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| (4) (a), (d), (b), (c) | |
| <p>8. Given below are two statements Statement I: Adenosine deaminase is crucial for the immune system to function. Statement II: Adenosine deaminase deficiency can be cured only by bone marrow transplantation. In the light of the above statements, choose the correct answer from the options given below.</p> <p>(1) Both Statement I and Statement II are true (2) Both Statement I and Statement II are false (3) Statement I is true, but Statement II is false (4) Statement I is false, but Statement II is true</p> | (3) Statement I is true, but Statement II is false |
| <p>9. Which of the following is not correct with reference to exponential growth model?</p> <p>(1) Resources are limited (2) Population grows in a geometric fashion (3) A stationary phase is never reached (4) Population grows beyond carrying capacity</p> | (1) Resources are limited |
| <p>10. The following graphs represent age pyramids of a population. Identify the correct option representing the status of age pyramids labelled as A, B and C.</p> <p>(1) A-stable, B-expanding, C-declining (2)-A-expanding, B - stable, C - declining (3) A-stable, B-declining, C-expanding (4) A-declining. B-stable, C-expanding</p> | (2)-A-expanding, B - stable, C - declining |
| <p>11. Which one of the following options represents the steps of decomposition in sequence?</p> <p>(1) Fragmentation → Humification Leaching Catabolism→ Mineralization (2) Fragmentation →Leaching Catabolism Humification Mineralization (3) Fragmentation →Humification Mineralization → Leaching → Catabolism (4) Fragmentation → Catabolism Humification Mineralization → Leaching</p> | (2) Fragmentation →Leaching Catabolism Humification Mineralization |

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| <p>12. The Annual Net Primary Productivity on land and ocean respectively _____ are billion tons. and</p> <p>(1) 170, 107 (2) 115,55 (3) 55, 115 (4) 107,170</p> | <p>(2) 115,55</p> |
| <p>13. In a practical examination, the below given pedigree chart was given as spotter for identification. The students identified the pedigree chart as</p> <p>(1) Autosomal recessive (2) Autosomal dominant (3) Sex-linked dominant (4) Sex-linked recessive</p> | <p>(1) Autosomal recessive.</p> |
| <p>14. Given below are two statements. Statement 1: There is less species biodiversity in tropical latitudes than in temperate region Statement II: Tropical environments unlike temperate ones are less seasonal, relatively more constant and predictable. In the light of the above statements, choose the correct answer from the options given below.</p> <p>(1) Both Statement I and Statement II are true (2) Both Statement I and Statement II are false (3) Statement I is true, but Statement II is false (4) Statement I is false, but Statement II is true</p> | <p>(4) Statement I is false, but Statement II is true</p> |
| <p>15. A student was given a bisexual, actinomorphic pentamerous, gamosepalous and gamopetalous with 5 stamens in epipetalous condition and bicarpillary syncarpous superior ovary and asked to state the floral formula. Which one of the following is the correct floral formula for the given flower?</p> | <p>$\overline{\varphi K_{(5)} C_{(5)} A_{(5)} \underline{G}_{(2)}}$</p> |

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| <p>16. A student was asked to identify a permanent slide of mitosis. He made the following observations.</p> <p>(i) Splitting of centromere and formation of daughter chromatids,</p> <p>(ii) Chromatids are migrating towards the opposite poles.</p> <p>The stage would be</p> <p>(1) Metaphase (2) Telophase (3) Anaphase (4) Prophase</p> | <p>(3) Anaphase</p> |
| <p>17. With respect to binomial nomenclature, identify the incorrect statement.</p> <p>(1) Biological names are generally in Latin and written in Italics.</p> <p>(2) The first word in the name represents specific epithet and the second component denotes genus.</p> <p>(3) Both the words in the name when handwritten are separately underlined.</p> <p>(4) The first word starts with capital letter, while the second word starts with small letter.</p> | <p>(2) The first word in the name represents specific epithet and the second component denotes genus.</p> |
| <p>18. Organism 'X' is a multicellular, heterotrophic, eukaryote with a chitinous cell wall. In which kingdom will you place it?</p> <p>(1) Monera (2) Animalia (3) Protista (4)Fungi</p> | <p>(4) Fungi</p> |
| <p>19. Read the following statements about Funaria and select the options which are correct.</p> <p>a) Gametophyte is the dominant plant body.</p> <p>b) The sporophyte is differentiated into foot, seta and capsule.</p> <p>c) The gemmae are asexual, green, multicellular buds found on the thallus.</p> <p>d) The sporophyte has independent existence.</p> <p>(1) a and b (2) a and c (3) b and c (4) c and d</p> | <p>(1) a and b</p> |

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| <p>25. A chromosome with an extremely short and a very long arm is called</p> <p>(1) Metacentric (2) Telocentric (3) Acrocentric (4) Submetacentric</p> | <p>(3) Acrocentric</p> |
| <p>26. The following statements are the steps in the catalytic action of an enzyme. Arrange them in correct sequence.</p> <p>a) The active site of the enzyme, now in close proximity of the substrate, breaks the chemical bonds of the substrate and the new enzyme product complex is formed.</p> <p>b) The substrate binds tightly to the enzyme, inducing a change in the active site of the enzyme.</p> <p>c) The enzyme releases the products of the reaction and the free enzyme is ready to bind to another molecule of the substrate.</p> <p>d) The substrate binds to the active site of the enzyme.</p> <p>(1) c, a, b, d (2) d, b, a, c (3) a, b, c, d (4) d, c, b, a</p> | <p>(2) d, b, a, c</p> |
| <p>27. A diploid cell which has 8 chromosomes undergoes meiosis and produces 4 daughter cells. What is the number of chromosomes present in each daughter cell formed at the end of meiosis-I?</p> <p>(1) 8 chromosomes (2) 4 chromosomes (3) 16 chromosomes (4) 32 chromosomes</p> | <p>(2) 4 chromosomes</p> |
| <p>28. Cellulose is an important structural component in plants which is made up of</p> <p>(1) Fructose (2) Galactose (3) Glucose (4) Sucrose</p> | <p>(3) Glucose</p> |

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| <p>29. In a healthy individual, the Glomerular Filtration Rate (GFR) is</p> <p>(1) 125 ml/minute (2) 125 ml/hour (3) 126 ml/minute (4) 125 ml/second</p> | <p>(1) 125 ml/minute</p> |
| <p>30. A hormone that initiates flowering and synchronising fruit set in pineapples is</p> <p>(1) Ethylene (2) Abscissic Acid (3) Auxins (4) Gibberellins</p> | <p>(1) Ethylene</p> |
| <p>31. Identify the incorrect statement regarding respiratory system in man.</p> <p>(1) Lungs are covered by double-layered membrane called pleura. (2) The alveoli are surrounded by rich blood capillaries. (3) The trachea, bronchi and bronchioles are supported by 'O' shaped cartilaginous rings. (4) The right lung is slightly larger than the left lung.</p> | <p>(3) The trachea, bronchi and bronchioles are supported by 'O' shaped cartilaginous rings.</p> |
| <p>32. Consider the following statements with respect to ECG [Electrocardiogram] and choose the correct answer.</p> <p>Statement I: 'P' wave represents the depolarisation of ventricles. Statement II: 'T' wave represents the repolarisation of ventricles.</p> <p>(1) Statement I and Statement II are wrong. (2) Statement I is correct but Statement II is wrong. (3) Statement I is wrong but Statement II is correct. (4) Statement I and Statement II are correct.</p> | <p>(3) Statement I is wrong but Statement II is correct.</p> |
| <p>33. Aldosterone from adrenal cortex stimulates the reabsorption of water and Na from</p> <p>(1) Proximal Convoluted Tubule (PCT) (2) Ascending limb of loop of Henle (3) Distal Convoluted Tubule (DCT) (4) Descending limb of loop of Henle</p> | <p>(3) Distal Convoluted Tubule (DCT)</p> |

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| <p>34. Observe the flowchart with reference to joints and their examples. Choose the correct option that matches with the letters given in the boxes.</p> <p>(1) A-Cartilaginous joint, B - Pivot joint, C. Knee joint, D - Cranial sutures (2) A-Pivot joint, B-Knee joint, C-Cranial sutures, D - Cartilaginous joint (3) A-Saddle joint. B-Cranial sutures, C-Cartilaginous joint. D - Pivot joint (4) A-Cranial sutures, B-Cartilaginous joint, C - Pivot joint. D - Knee joint</p> | <p>(4) A-Cranial sutures, B-Cartilaginous joint, C - Pivot joint. D - Knee joint</p> |
| <p>35. Unipolar neurons are found usually in the embryonic stage. They have</p> <p>(1) One axon and one dendrite (2) Cell body and one axon (3) Cell body with one axon and many dendrites (4) Neither axon nor dendrites.</p> | <p>(2) Cell body and one axon</p> |
| <p>36. Gastrin is a hormone secreted by gastrointestinal tract, which stimulates the secretion of</p> <p>(1) Pancreatic enzymes and bile juice (2) Hydrochloric acid and pepsinogen (3) Bicarbonate ions and pepsinogen</p> | <p>(3) Hydrochloric acid and pepsinogen</p> |
| <p>37. Choose the correct sequence of wall layers in a microsporangium of an angiosperm.</p> <p>(1) Epidermis, Middle layer, Endothecium, Tapetum (2) Epidermis, Endothecium, Middle layer, Tapetum (3) Epidermis, Tapetum, Middle layer. Endothecium (4) Epidermis, Middle layer, Tapetum. Endothecium</p> | <p>(2) Epidermis, Endothecium, Middle layer, Tapetum</p> |
| <p>38. Which of the following statement is/are correct for cleistogamous flowers?</p> <p>a) They have exposed anthers and stigma b) They produce assured seed set c) They need pollinators for pollination d) Variations in traits are not seen in next generation</p> <p>(1) Only Statement (b) is correct (2) Statements (a) and (c) are correct (3) Statements (b) and (d) are correct (4) Statements (b) and (c) are correct</p> | <p>(3) Statements (b) and (d) are correct</p> |

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| <p>39. Which of the following does NOT produce seminal plasma?</p> <ul style="list-style-type: none">(1) Epididymis(2) Bulbourethral glands(3) Seminal vesicles(4) Prostate gland | |
| <p>40. Which of the following Sexually Transmitted Infections (STIs) are not completely curable?</p> <ul style="list-style-type: none">(1) AIDS, Genital warts(2) Chlamydia, Gonorrhoea(3) Genital warts, Hepatitis B(4) AIDS, Genital herpes | <p>(4) AIDS, Genital herpes</p> |

