

MCQs for: Biology

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Total Questions: 10

1. Question Download Solution PDF Pollination is best defined as This question was previously asked in 67th BPSC Prelims Set - D (Re-Exam) 30 Sept 2022 Official Paper Download PDF Attempt Online View all BPSC Exam Papers > germination of pollen grains growth of pollen tube in ovule visiting flowers by insects transfer of pollen grain from anther to stigma None of the above/More than one of the above

- A. germination of pollen grains
- B. growth of pollen tube in ovule
- C. visiting flowers by insects
- D. transfer of pollen grain from anther to stigma
- E. None of the above/More than one of the above

Answer & Solution:

The correct answer is Pollination is best defined as the transfer of pollen grain from anther to stigma. Key Points Pollination: The process of transfer of pollen (from male reproductive part i.e. anther) to the stigma (from female reproductive part i.e. carpel) of flowering plants is called Pollination. Fertilization: It is the fusion of male and female gamete. Download Solution PDF Share on Whatsapp

2. Question Download Solution PDF In transfusion, blood must be compatible not only in blood type but also in This question was previously asked in 67th BPSC Prelims Held on 8 May 2022 Official Question Paper Download PDF Attempt Online View all BPSC Exam Papers > Rh factor the number of white cells the number of red cells race of donor and recipient None of the above/More than one of the above

- A. Rh factor
- B. the number of white cells
- C. the number of red cells
- D. race of donor and recipient
- E. None of the above/More than one of the above

Answer & Solution:

The correct option is the Rh factor. EXPLANATION: A blood transfusion is a routine medical procedure in which donated blood is provided to you through a narrow tube placed within a vein in your arm. This potentially life-saving procedure can help replace blood lost due to surgery or injury. During a blood transfusion, a healthcare professional will place a small needle into the vein, usually in the arm or hand. The blood then moves from a bag, through a rubber tube, and into the person's vein through the needle. They will carefully monitor vital signs throughout the procedure. Some doctors believe that hospital patients who fall below 10 g/dL should get a blood transfusion. But recent research found that: Many patients with levels between 7 and 10 g/dL may not need a blood transfusion. One unit of blood is usually as good as two, and it may even be safer. If you have type AB blood, you can receive any type of blood and you're called a universal recipient. If you have Rh-negative blood, you can only receive Rh-negative blood. So, In a transfusion,

blood must be compatible not only in blood type but also with the Rh factor Download Solution PDF Share on Whatsapp

3. Question Download Solution PDF Which of the following are not the tastes of the tongue? 1. Sweet 2. Bitter 3. Salty 4. Spicy 5. Umami 6. Sour 7. Pungent Select the correct answer using the codes given below. This question was previously asked in 69th BPSC Prelims Exam Official Paper (Held On: 30 Sept, 2023) Download PDF Attempt Online View all BPSC Exam Papers > 2, 5 and 7 1, 3 and 4 4 and 7 3 and 6

- A. 2, 5 and 7
- B. 1, 3 and 4
- C. 4 and 7
- D. 3 and 6

Answer & Solution:

The correct answer is Option 3. Key Points The tongue of a human being has different types of papillae associated with taste buds and are responsible for detecting taste. These are: Sweet: This taste is often associated with sugars and is perceived as pleasant. Bitter: Bitterness is typically associated with compounds that are often considered unpleasant or harsh. It can be found in certain vegetables, coffee, and some medicines. Salty: Saltiness is perceived when salts are present and can enhance the flavor of many foods. Umami: Umami is often described as a savory or meaty taste and is associated with glutamate-rich foods such as tomatoes, mushrooms, and some meat and fish. Sour: Sour taste is usually caused by acidic substances and can be tangy or sharp. They do not detect the 'Spicy' taste (Option-4) and the 'Pungent' (Option-7) which is associated with smell. Hence option '3' is correct. Download Solution PDF Share on Whatsapp

4. Question Download Solution PDF Water reaches great heights in trees because of suction pull caused by This question was previously asked in 68th BPSC Prelims (Held on 12 Feb 2023) (Set: B) - Official Paper Download PDF Attempt Online View all BPSC Exam Papers > evaporation absorption transpiration More than one of the above None of the above

- A. evaporation
- B. absorption
- C. transpiration
- D. More than one of the above
- E. None of the above

Answer & Solution:

The correct answer is transpiration. Key Points Plants are immobile and do not move. Plants are characterized by vascular tissue that aids in the movement of water and sucrose. Plants absorb water from roots and carry it with the help of xylem tissue. Transpiration is the removal of water from parts of plants, such as leaves. The water reaches great heights in trees because of suction pull caused by transpiration. It occurs via the stomatal opening. It helps in the maintenance of water inside the plant body. Additional Information Evaporation: It is a process in which liquid converts to vapor. It helps in maintaining the water cycle. Liquid water is converted to vapor from stagnant water, seas, and oceans. Absorption: It is a process by which food substances are absorbed by cells of the intestine. It is a crucial step of digestion. Download Solution PDF Share on Whatsapp

5. Question Download Solution PDF Fungi are plants that lack This question was previously asked in 67th BPSC Prelims Set - D (Re-Exam) 30 Sept 2022 Official Paper Download PDF Attempt Online View all BPSC Exam Papers > carbon dioxide chlorophyll sunlight oxygen None of the above/More than one of the above

- A. carbon dioxide
- B. chlorophyll
- C. sunlight
- D. oxygen
- E. None of the above/More than one of the above

Answer & Solution:

The correct answer is chlorophyll. Key Points Fungi are plants that lack chlorophyll and also they are distinguished by their unique structure as well as physiological features. Fungi also have a cell wall that is made up of chitin and get the nutrients through absorption. As there is a lack of chlorophyll in fungi so photosynthesis will not take place. Download Solution PDF Share on Whatsapp

6. Question Download Solution PDF Most of the enzymes are This question was previously asked in 67th BPSC Prelims Set - D (Re-Exam) 30 Sept 2022 Official Paper Download PDF Attempt Online View all BPSC Exam Papers > lipids acids alkalis proteins

- A. lipids
- B. acids
- C. alkalis
- D. proteins

Answer & Solution:

The correct answer is proteins. Key Points Enzymes are mostly made up of Protein. Enzymes are produced naturally in our body. The enzymes in our body help to perform very important tasks. These include building muscle, destroying toxins, and breaking down food particles during digestion. There are three main types of digestive enzymes required for proper digestive system function. Amylase :- breaks down starches and carbohydrates into sugars Lipase :- break down lipids, which are fat and oil into glycerol and fatty acid. Protease :- breaks down proteins into amino acid. Additional Information Protein is know as building Block of our body. Because, the main function of protein in the body is to build and repair cells and tissues. This includes supporting muscle development and all other cells in the body. Sources of protein :- Milk, Egg, Meat, Fish Nuts, Pulses, Soyabean, Apples, Apricots, Blueberries, Cherries and Grapefruit. etc. Protein deficiency leads to Kwashiorkor and Marasmus diseases in children Download Solution PDF Share on Whatsapp

7. Question Download Solution PDF In the nighttime, it is advised not to sleep under trees because This question was previously asked in 67th BPSC Prelims Held on 8 May 2022 Official Question Paper Download PDF Attempt Online View all BPSC Exam Papers > they liberate less amount of oxygen they liberate harmful gases at night they liberate carbon dioxide they liberate carbon monoxide None of the above/More than one of the above

- A. they liberate less amount of oxygen
- B. they liberate harmful gases at night
- C. they liberate carbon dioxide
- D. they liberate carbon monoxide
- E. None of the above/More than one of the above

Answer & Solution:

The correct option is they liberate carbon dioxide. EXPLANATION: Trees take in Oxygen and omit Carbon-dioxide at night. This will create an insufficiency of Oxygen for a man who is sleeping under the tree. In the nighttime, it is advised not to sleep under trees because they liberate carbon dioxide. Download Solution PDF Share on Whatsapp

8. Question Download Solution PDF Chlorophyll absorbs _____ wavelengths of the sunlight. This question was previously asked in 68th BPSC Prelims (Held on 12 Feb 2023) (Set: B) - Official Paper Download PDF Attempt Online View all BPSC Exam Papers > red and blue green and blue green and red More than one of the above

- A. red and blue
- B. green and blue
- C. green and red

D. More than one of the above

Answer & Solution:

The correct answer is -red and blue. Key Points Chlorophyll Chlorophyll is the pigment found abundantly in green plants. It absorbs most efficiently in the blue and red regions of the visible light spectrum. Sunlight contains a large spectrum of light from red to blue spectrum, including green light. Chlorophyll absorbs light in the blue region of the spectrum the most, with peaks around 450 and 650 nanometers The absorbed red light with a peak at 700 nanometers. The green region of the spectrum is reflected, giving chlorophyll its green color. Chlorophyll a and b are the most abundant types of chlorophyll. Other pigments found in plants, such as carotenoids and phycobilins, also absorb light in different regions of the spectrum If the plants have large amounts of carotenoids, they appear red as they reflect red light. Download Solution PDF Share on Whatsapp

9. Question Download Solution PDF At which of the following places the newsprint paper industry is located? This question was previously asked in 67th BPSC Prelims Set - D (Re-Exam) 30 Sept 2022 Official Paper Download PDF Attempt Online View all BPSC Exam Papers > Durgapur Nepanagar Kanpur Satana None of the above/More than one of the above

- A. Durgapur
- B. Nepanagar
- C. Kanpur
- D. Satana
- E. None of the above/More than one of the above

Answer & Solution:

The correct answer is Nepanagar. Key Points Nepanagar is famous for the Newsprint industry. Nepanagar is an industrial township in Burhanpur district in the state of Madhya Pradesh. Nepa Mills Limited which was earlier known as The National News Print Ltd. It was originally floated by a private entrepreneur in 1947 and the management was taken over by the Madhya Pradesh Government in 1949 and became a Central Government Company in 1959. It is the first indigenous newsprint manufacturing unit in the country. The word "NEPA" is coined by the National Environment Protection Authority. Download Solution PDF Share on Whatsapp

10. Question Download Solution PDF Geodesy is the science that deals with This question was previously asked in 67th BPSC Prelims Held on 8 May 2022 Official Question Paper Download PDF Attempt Online View all BPSC Exam Papers > dating of terrestrial rock measurement of dimension of the earth measurement of elevation and depression of the earth recording of the changes undergone by the crust None of the above/More than one of the

above

- A. dating of terrestrial rock
- B. measurement of dimension of the earth
- C. measurement of elevation and depression of the earth
- D. recording of the changes undergone by the crust
- E. None of the above/More than one of the above

Answer & Solution:

The correct answer is Geodesy Key Points Geodesy It is the science of accurately measuring and understanding the Earth's geometric shape, orientation in space, and gravity field. Hence, Option 2 is correct. Geodesy is the science of accurately measuring and understanding three fundamental properties of the Earth: its geometric shape, its orientation in space, and its gravity field- as well as the changes of these properties with time. By using GPS, geodesists can monitor the movement of a site 24 hours a day, seven days a week. To measure the Earth, geodesists build simple mathematical models of the Earth which capture the largest, most obvious features. Geodesists have adopted the ellipsoid as the most basic model of the Earth. Because the ellipsoid is based on a very simple mathematical model, it can be completely smooth and does not include any mountains or valleys. When additional detail of the Earth is needed, geodesists use the geoid. A geoid has a shape very similar to the global mean sea level, but this exists over the whole globe, not just over the oceans. Additional Information Cosmology It is a branch of astronomy concerned with the study of the chronology of the universe. Physical cosmology is the study of the universe's origin, its large-scale structures and dynamics, and the ultimate fate of the universe, including the laws of science that govern these areas. Geomorphology It is the scientific study of the origin and evolution of topographic and bathymetric features created by physical, chemical, or biological processes operating at or near the Earth's surface. Geography It is a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth and planets. Geography (from Greek: γεωγραφία, geographia, literally "earth description") is a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth and planets. The first person to use the word γεωγραφία was Eratosthenes (276–194 BC). Download Solution PDF Share on Whatsapp