
19 July 2012

PLANT AND SEEDS

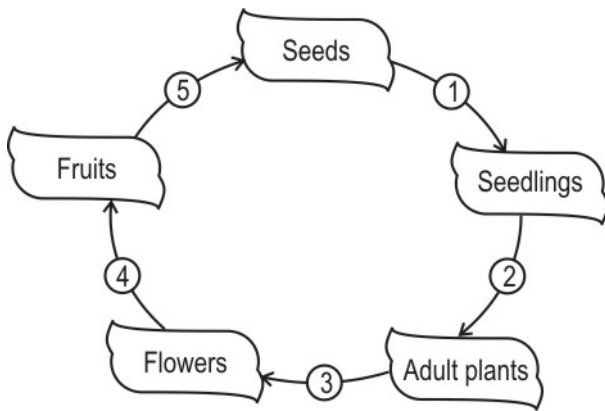
CLASS	DIVISION	EXAM CODE
5	A	1217211
5	B	8771831
5	C	3064581

SCHOOL
Maharaja Sawai Mansingh
Vidyalaya

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1. There are 15 questions in the paper. All are compulsory.
 2. Tick or circle the option which is your answer.
 3. Show your working on a separate sheet of paper wherever you need to.
 4. Please check your answers carefully before submitting the test. Once submitted, the answers CANNOT be changed.



Q: 1 Shown below are different stages in the growth of a plant.



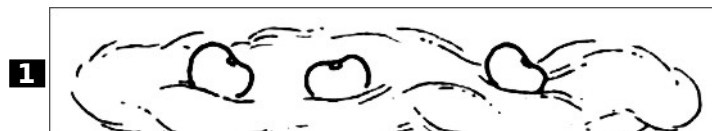
At which point(s) are the seeds formed?

- 1** only 4 **2** only 5 **3** only 3 and 4 **4** only 3 and 5

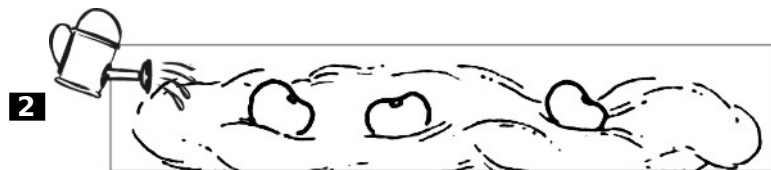
Q: 2 Why do plants make seeds?

- 1** so that animals and birds can eat them **2** so that they can grow into new plants
3 to store food made by the plant **4** to give shape to the fruit

Q: 3 In which of the following cases will the seeds germinate?



On dry cotton, placed inside the room



On wet cotton, placed inside the refrigerator



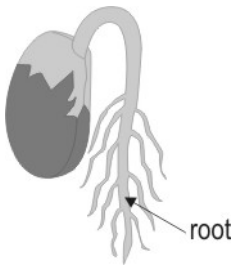
On dry cotton, placed in the sunlight



On wet cotton, placed on the window sill



Q: 4 The image given here shows a plant when it starts to grow.



Under normal conditions, which of the following will be the NEXT to develop as the plant continues to grow?

- 1** seeds and stem **2** stem and leaves **3** fruits and flowers **4** flowers and seeds

Q: 5 After a week of rain during the rainy season, you can see new plants growing on the roadside and in open fields. Which of the following can we say based on this observation?

- 1** Dead leaves, that were buried in the soil, probably grew into plants after the rain.
2 Each raindrop probably carries small seeds of these plants to different regions.
3 The plants probably grew directly from soil particles when water got mixed with it.
4 The seeds of these plants were probably present in the soil even before the rains.

Q: 6 When seeds are buried in soil, from where will they get air to germinate?

- 1** Seeds buried in the soil do not need air to germinate.
2 Seeds will get air from the spaces between soil particles.
3 Seeds get air only when the baby plant comes out of the soil.
4 Seeds buried in soil do not get air and hence do not germinate.

Q: 7 The picture shows coconut palms growing on a deserted island. How do you think the coconut trees first began to grow there?



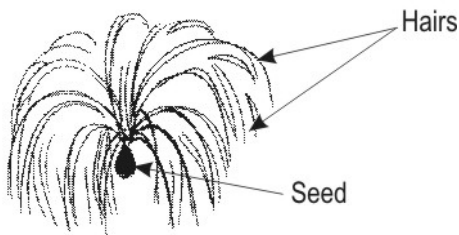
- 1** The first coconut tree in the island may not have required a seed to grow.
2 The first coconut may have floated to the island, carried by ocean currents.
3 The log of a coconut tree may have floated to the island and grown into the first tree.
4 The fibrous 'hair' of the first coconut helped the wind carry it to the island.



Q: 8 The seeds from plants spread to different areas and new plants grow from them. Which animals are most likely to carry the seeds found **INSIDE** fruits from plants to another area?

- 1** birds **2** butterflies **3** mosquitoes **4** caterpillars

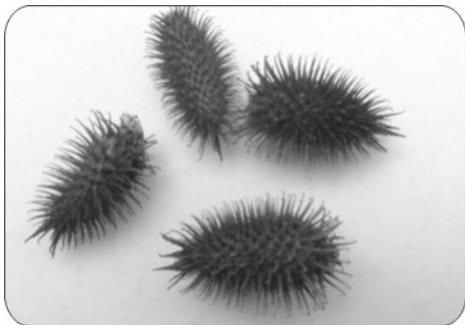
Q: 9 Seeds have special features that help them to be spread far and wide. Here is a drawing of a seed.



The features of the seed shown above make it most suited for dispersal through _____.

- 1** wind **2** water **3** birds **4** animals

Q: 10 The given picture shows the fruit of a plant called cocklebur. It is covered with stiff, hooked spines.



Choose the **MOST LIKELY** method by which the seeds in the fruit are dispersed.

- 1** carried by water **2** blown by the wind
3 eaten by an animal **4** carried on an animal's fur

Q: 11 Sindhu was gathering lady's fingers in the field. She saw some of the dried lady's fingers bursting open and the seeds being flung out. In what way does bursting of the lady fingers help the plant?

- 1** less water is needed for plants when seeds are spread
2 the seeds are spread far away and can grow better
3 farmers do not need to plant seeds again
4 birds can find the seeds easily for food

Q: 12 How does seed dispersal help plants?

New plants _____.

- 1** can grow in the same place as their parents
- 2** can get more nutrients, light and space to grow
- 3** will make double the oxygen for the environment
- 4** will grow more fruit than the older plants if they are spread out

Q: 13 Farah, Adil and Shehnaz were revising what they had studied in class. They told their mother the following:

Farah: All seeds need soil to germinate.

Adil: Plants grow only from seeds.

Shehnaz: Some plants can grow from parts other than seeds.

Which of these statements is/are correct?

- 1** only Adil
- 2** only Shehnaz
- 3** only Farah and Adil
- 4** only Farah and Shehnaz

Q: 14 Simon, Annie and Kavita were having a discussion on how new plants could be grown. This is what they said:

Simon - New plants can be grown from seeds and parts of roots.

Annie - New plants can be grown from seeds and parts of stems.

Kavita - New plants can be grown from seeds and parts of leaves.

Who among them is correct?

- 1** only Simon
- 2** only Annie
- 3** only Kavita
- 4** all - Simon, Annie and Kavita

Q: 15 Which of the following is the main function of leaf buds like those shown in the image?



Leaf Bud

- 1** to produce new plants
- 2** to store water for the plant
- 3** to produce food for the plant
- 4** to produce more flowers for the plant