Gr 11 Plant diversity

1. The ovary of angiosperms develops into a... *

- ◯ Flower
- ◯ Fruit
- ◯ Leaf
- ◯ Nut

2. Which were the first plants to colonise dry land, including the liverworts. *

- ◯ Gymnosperms
- ◯ Spermatophytes
- ◯ Bryophytes
- ◯ Pteridophytes

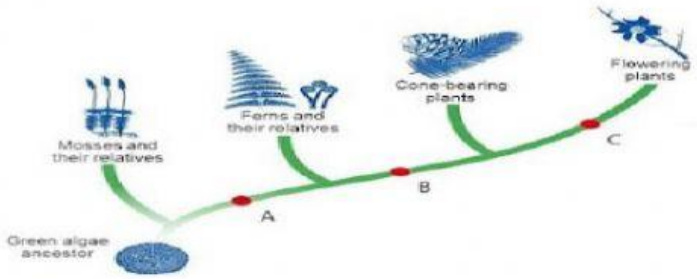
3. The structure of a Pteridophyte that represents the gametophyte generation. *

- ◯ Prothallus
- ◯ Frond
- ◯ Fiddlehead
- ◯ Sori

4. The cross-pollination strategy, where the stigma ripens before the anthers mature and release pollen grains. *

- ◯ Dioecious
- ◯ Protandry
- ◯ Protogyny
- ◯ Incompatibility

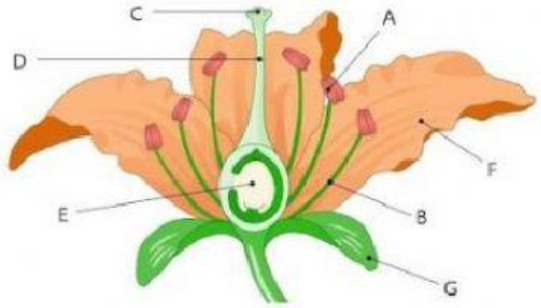
5. Refer to the cladogram of plant evolution below. Which labels would be most suitable for the developments that evolved at points A, B and C respectively.



- ◯ vascular tissue, seeds, seeds enclosed in fruit
- ◯ roots, larger leaves, seeds
- ◯ conducting tissue, cones, protected seeds
- ◯ Xylem and phloem, complex leaves, seeds enclosed in fruit

LIVEWORKSHEETS

7. Study the structure of a flower below. The male reproductive structures are labelled by the following letters *



- ◯ A, B, F
- ◯ C, D, E
- ◯ A, B
- ◯ C, D

8. Referring to the diagram of the flower above in question 7. The correct labels for the parts labelled A, D and G respectively, are... *

- ◯ filament, stigma, leaf
- ◯ stamen, pistal, sepal
- ◯ anther, style, sepal
- ◯ stamen, ovary, petal

9. Species that are found naturally in a particular area and nowhere else, are said to be... *

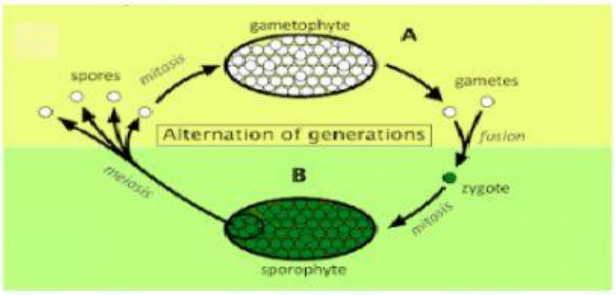
- ◯ indigenous
- ◯ endemic
- ◯ native
- ◯ original

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10. Which of the following is not used to classify plants *

- ◯ The presence/ absence of xylem and phloem
- ◯ Dependence on water for reproduction
- ◯ How tall they grow
- ◯ The presence/absence of flowers or cones

11. Refer to the diagram below. Which statement is TRUE for generation A and generation B respectively? *



- ◯ A is haploid, B is diploid
- ◯ A is diploid, B is haploid
- ◯ A is the dominant generation in Bryophytes, B is the dominant generation in Gymnosperms
- ◯ Both options 1 and 3 are correct
- ◯ Both options 2 and 3 are correct

12. Why has the development of seeds been so vital to the biodiversity of spermatophytes? *

- ◯ Seeds may remain dormant in unfavourable conditions
- ◯ The embryo is protected by a testa and cotyledons
- ◯ Dispersal strategies avoid competition with the parent plant
- ◯ Genetic diversity enhance chances of survival
- ◯ All of the above

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13. Looking at the image below, which is the most likely pollinator of this plant? (Could you justify your choice?) *



- ◯ Birds
- ◯ Insects
- ◯ Bats
- ◯ Wind

14. Looking at the image below, which is the most likely pollinator? (Could you justify your choice?) *



- ◯ Insects
- ◯ Birds
- ◯ Wind
- ◯ Rodents

15. Which of the following is a disadvantage of asexual reproduction? *

- ◯ Only one parent is needed
- ◯ Weakness in the parent will be transmitted to offspring
- ◯ Reliance on pollinators is not needed
- ◯ Lots of offspring are produced in a short time

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