

11. Winged seeds are present in:
 - a. *Cycas*
 - b. *Pinus*
 - c. *Funaria*
 - d. None of these
12. Which of the following genus serves as a link between the gymnosperms and angiosperms?
 - a. *Cycas*
 - b. *Pinus*
 - c. *Gnetum*
 - d. *Ephedra*
13. In *Cycas*, the fern characteristics is:
 - a. Reticulate venation
 - b. Circinate vernation
 - c. Taproot system
 - d. None of these
14. The fossil group of Cycadofilicales have:
 - a. 6 Families
 - b. 2 Families
 - c. 10 Families
 - d. 4 Families
15. Which among the following is an example of fossil fuel?
 - a. Gobar gas
 - b. Coal
 - c. LPG
 - d. None of these
16. Which of the following type of fossil preserve replica of plant in sedimentary rocks?
 - a. Amber
 - b. Caprolites
 - c. Ice
 - d. Cast
17. The fossil Bennettitales first appeared in:
 - a. Permian period
 - b. Triassic period
 - c. Jurassic period
 - d. Permian period
18. The ovule of gymnosperms are:
 - a. Anatropous
 - b. Hemitropous
 - c. Orthotropous
 - d. Circinotropous
19. The total number of seeds produced in *Gnetum* are:
 - a. Three
 - b. Two
 - c. Four
 - d. One
20. Tallest known gymnosperm is:
 - a. *Ginkgo*
 - b. *Cycas*
 - c. *Ephedra*
 - d. *Sequoia*

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Write down the economic importance of Bryophytes. | 10 |
| 2. Write down the morphological and reproductive differences and similarities between Hepaticopsida and Bryopsida group. | 5+5=10 |
| 3. Discuss the heterospory and seed habit in pteridophytes. | 10 |
| 4. Write short note on: | 5+5=10 |
| a) Siphonostele in pteridophytes | |
| b) Marsileasporocarp | |
| 5. Draw and describe the anatomy of <i>Pinus</i> needle. | 10 |
| 6. Define Fossil. Describe briefly the different types of fossilization with proper example. | 2+8=10 |
| 7. Describe briefly the morphological and reproductive features of <i>Rhynia</i> . | 10 |
| 8. Describe briefly the morphological and reproductive features of <i>Gnetum</i> . | 10 |

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