

Section A: Multiple Choice. Select the BEST answer from the choices given and write the letter of your choice in the space provided. Value 62%.

- ___ 1. A species of **hardwood** tree:-
a) trembling aspen b) red cedar
c) tamarack d) hickory
- ___ 2. The **coniferous rainforest** is found in the province of:-
a) Ontario b) British Columbia
c) Alberta d) Quebec
- ___ 3. All of the following climatic conditions are preferred by trees of the **boreal forest** with the exception of:-
a) they prefer long, cold winters
b) they prefer very little in the way of precipitation
c) they prefer short, cool summers
d) they prefer a short growing season
- ___ 4. The **boreal forest** grows best in areas that have an annual temperature below:-
a) 0EC b) 5EC c) 10EC d) 15EC
- ___ 5. The most productive forest region in Canada is the:-
a) west coast coniferous rainforest
b) Montane coniferous forest
c) deciduous forest
d) Acadian mixed forest
- ___ 6. The trees of the **deciduous forest** like all of the following conditions for their growth with the exception of:-
a) short growing season b) abundant precipitation
c) fertile soils d) hot summers
- ___ 7. Which one of the following is not a species of **deciduous tree** ?
a) aspen b) ash c) birch d) hemlock
- ___ 8. Not a tree species found in the west coast coniferous rainforest:-
a) Douglas fir b) sitka spruce
c) balsam fir d) red cedar
- ___ 9. What percentage of the world's softwood is produced in Canada ?
a) 25% b) 48% c) 40% d) 60%
- ___ 10. In Atlantic Canada, the province with the greatest amount of productive forest land is:-
a) Newfoundland b) Nova Scotia

c) New Brunswick d) Prince Edward Island

- ___ 11. Which one of the following tree species is not highly valued by furniture manufacturers ?
a) maple b) cherry c) birch d) spruce
- ___ 12. Which forest region has the highest yield of wood per hectare ?
a) west coast coniferous rainforest
b) Montane coniferous forest
c) boreal forest
d) Acadian mixed forest
- ___ 13. The two provinces that employ the largest number of workers in the logging industry are:-
a) British Columbia and Quebec
b) Ontario and Quebec
c) Ontario and Alberta
d) British Columbia and Alberta
- ___ 14. The **Acadian mixed forest** is found in the province of:-
a) Ontario b) Nova Scotia
c) Manitoba d) New Brunswick
- ___ 15. The northern limit of forest growth in Canada matches the July isotherm of:-
a) 20EC b) 5EC c) 10EC d) 15EC
- ___ 16. The three most productive provinces in terms of forest land are:-
a) Manitoba - British Columbia - Alberta
b) Quebec - Ontario - Saskatchewan
c) British Columbia - Ontario - Quebec
d) Alberta - Quebec - Ontario
- ___ 17. What percentage of Canada's forested area consists of **deciduous** tree growth ?
a) 90% b) 40% c) 10% d) 1%
- ___ 18. The province having the **fewest** number of workers employed in the forest industry is:-
a) Manitoba b) British Columbia
c) Alberta d) New Brunswick
- ___ 19. Which one of the following forest groupings is capable of surviving in areas that experience harsh climatic conditions ?
a) boreal forest b) Acadian mixed forest
c) deciduous forest d) west coast coniferous rainforest
- ___ 20. Which of the following factors is **least** important in helping to explain why the trees of the west coast coniferous rainforest grow to such great heights and

sizes ?

- a) high precipitation
- b) moderate temperatures
- c) very rich, fertile soils
- d) long growing season

- ___ 21. This province employs more workers in the logging industry than any other province in Canada:-
 - a) Ontario
 - b) British Columbia
 - c) Newfoundland
 - d) Quebec

- ___ 22. At the present time, the size of **clear-cut** areas in Canada has been limited to:-
 - a) 50 ha
 - b) 100 ha
 - c) 75 ha
 - d) 40 ha

- ___ 23. If a forest has a maturation cycle of 80 years and the forest inventory has 1,750,000 trees, what is the annual allowable cut ?
 - a) 19,500
 - b) 34,750
 - c) 27,875
 - d) 46,500

- ___ 24. What percentage of Canada's total forest land consists of **protected areas** such as parks and reserves ?
 - a) 25%
 - b) 5%
 - c) 20%
 - d) 12%

- ___ 25. What percentage of all newspapers sold in North America are recycled back into newsprint ?
 - a) 25%
 - b) 33%
 - c) 20%
 - d) 50%

- ___ 26. A species of tree that has been unable to regenerate itself in many areas in Canada because of serious overcutting:-
 - a) red cedar
 - b) white pine
 - c) white spruce
 - d) lodgepole pine

- ___ 27. The most effective weapon against spreading forest fires is:-
 - a) trained fire fighting crews
 - b) water bombers
 - c) heat detection equipment
 - d) air and ground patrols

- ___ 28. A species of tree that depends on the heat from forest fires to release seed from its cones:-
 - a) jack pine
 - b) Sitka spruce
 - c) trembling aspen
 - d) Douglas fir

- ___ 29. The greatest threat to Canada's forests comes from:-
 - a) human activity
 - b) acid rain
 - c) insect infestation
 - d) lightning

- ___ 30. The most serious insect threat to the forests of Newfoundland is the:-
 - a) hemlock looper
 - b) gypsy moth
 - c) larch sawfly
 - d) pine bark beetle

- ___ 31. A region of Canada with the greatest amount of burned area caused by lightning;-
a) Manitoba b) Northwest Territories
c) Quebec d) Saskatchewan

Section B: True or False. Place a "T" or "F" in the space provided to the LEFT. Value 14%.

- ___ 1. The trees of the Montane coniferous forest are bigger than the trees of the Columbia coniferous forest.
- ___ 2. Variation in the temperatures of an area allow for the growth of different types of forests.
- ___ 3. Softwood trees are primarily turned into newsprint and paper products.
- ___ 4. The distribution of employment in forestry is closely related to the size of productive forests.
- ___ 5. In the past, reforestation helped to renew only a small percentage of the harvested forest areas in Canada.
- ___ 6. Forest fires threaten human settlements, wood supplies, and recreational activities.
- ___ 7. The people of Canada are very satisfied with the way in which this country's forests are being managed.
- ___ 8. Climatic conditions play an important role in the number of fires that ravage Canada's forests every year.
- ___ 9. Governments have launched campaigns to increase public awareness of forest fire hazards.
- ___ 10. The size of trees in the Acadian mixed forest is similar to the size of trees in the Great Lakes mixed forest.
- ___ 11. Harvesting the wealth of Canada's forests provides jobs for one in ten Canadians.
- ___ 12. The province of British Columbia is leading manufacturer of furniture in Canada.
- ___ 13. There are environmentally sensitive areas in this country where logging operations have been banned altogether.
- ___ 14. Scientists are developing trees that are capable of growing faster while at the same time being resistant to insects and diseases.

Section C: Answer any **four** of the following questions on a separate sheet of paper. Value 24%.

1. List any four characteristic features of **coniferous** trees.
2. Explain how modern technology is helping to protect areas of commercial forest from the effects of forest fires.
3. For what reasons is the Saguenay River Valley an ideal location for the pulp and paper industry ?
4. For what reasons does the forest industry experience cycles of **boom and bust** ?
5. Explain the role played by forest fires in the normal cycle of regeneration for some forest ecosystems.