14.10.19   T.T Biology   Time: 45 Mins

STD: XI (A-D)   Bio-Botany   Marks: 30

I. Answer the following: 2x2=4

1. What are tyloses? Draw the diagram and label the parts.

2. Distinguish between Intrafascicular cambium and Interfascicular cambium.

3. Explain the Importance of studying Growth Rings.

II. Answer any 3 of the following: 3x2=6

4. Distinguish between Sapwood and Heart wood.

5. Distinguish between Vascular cambium and Cork cambium.

6. Draw and label: Structure of Lenticel.

7. Differences between secondary growth in Dicot stem and Root.

III. Answer any 1 in detail: 1x5=5

8. Explain the secondary growth in Dicot root with the diagram.

(or)

Write in detail on Annual Rings.

Bio-Zoology

I. Answer any three in one word: 3x1=3

1. Painful urination is the symptom of which disease?

2. More than 17-30 mg of urea in 100ml of blood is indication of what disease?

3. Which salt causes Renal caliculi?

4. What is the name of the disease caused by inflammation of urethra?

II. Answer any 2 of the following: 2x2=4

5. Explain about uremia.

6. What is meant by Stenohaline organisms, give example?

7. What is meant by Euryhaline organisms?

III. Answer any 1 of the following: 1x3=3

8. What is meant by Bright's disease?

9. What are the bones of pelvic girdle and leg?

IV. Answer any 1 of the following: 1x5=5

10. Write a note on the counter current mechanism and its role.

11. Write a note on pectoral girdle with diagram.

14.10.19   T.T Business Mathematics   Time: 45 Mins

STD: XI (E-I)   Marks: 30

I. Answer any 5 of the following: 5x3=15

1. Differentiate with respect to 'x': i) $\frac{e^x}{1+x}$

2. $(x^2-3x+2)(x+1)$

3. Differentiate w.r.t 'x' $\sqrt{x^2+x+1}$

4. If $y=\frac{1}{u^2}$ and $u=x^2-9$ then find $\frac{dy}{dx}$

5. Differentiate w.r.t 'x': $\sqrt{x}+\frac{1}{\sqrt[3]{x}}+e^x$

6. Differentiate w.r.t 'y': $y^4-3\sin y + \cos y$

II. Answer any 3 of the following: 3x5=15

7. Differentiate: i) $\sin x \cos x$ ii) $x^3 e^x$

8. Differentiate: i) $\sin^2 x$ ii) $\sqrt{1+x^2}$

9. Differentiate w.r.t 'y': i) $(ay^2+by+c)^n$ ii) $y^2 \sin y$

10. Differentiate $\frac{dy}{dx}$ i) $\frac{x^2+x+1}{x^2-x+1}$ ii) $\frac{1+x^5+x^2}{x}$

14.10.19   T.T Computer Science   Time: 45 Mins
STD: XI (A-D)   Marks: 30

I. Choose the correct answer: 5x1=5

1. The smallest individual unit in a program is known as _____.
   a) Character set   b) Symbols   c) Token   d) Keywords
2. An escape sequence is represented by _____ followed by one or two characters.
   a) double quote   b) single quote   c) backslash
   d) forward slash
3. By default string literals are automatically added with a special character _____ at the end.
   a) '\o'   b) '\n'   c) '\t'   d) '\v'
4. Identify the invalid octal constant.
   a) 012   b) -027   c) 0231   d) 0158
5. If N1=10 and N2=30, find the value of S where S=N+++++N2
   a) 30   b) 29   c) 42   d) 41

II. Answer any 4 in short: 4x2=8

6. What is character set?
7. What do you mean by string literals?
8. What are identifiers?
9. How the operators are classified on the basis of the number of operands?
10. Write the following real constants into exponent form:
    i) 7.214   ii) 0.00005   iii) 0.319   iv) 23.197

III. Answer any 4 in brief: 4x3=12

11. What is the use of using namespace?
12. Write down the rules for naming an identifier.
13. List the benefits of C++
14. What is the difference between "Run time error" and "Syntax error"?
15. What is the use of a header file?

IV. Answer any 1 in detail: 1x5=5

16. Explain the basic elements of C++
17. Explain in detail about C++ operators.

14.10.19   T.T Computer Application   Time: 45 Mins
STD: XI (F-I)   Marks: 30

I. Answer any 4 of the following: 4x2=8

1. What is a network?
2. What is search engine?
3. What is website?
4. What is a static web page?
5. List any four types of available networks.

II. Answer any 4 of the following: 4x3=12

6. Differentiate PAN and CAN network.
7. Write a note on Hotspot internet service.
8. Write a note on two access method of connecting to internet.
9. Differentiate browser and a search engine with suitable examples.
10. Differentiate between static and dynamic web page.

III. Answer any 2 in detail: 5x2=10

11. Classify and explain any five e-commerce parties with suitable examples.
12. Explain the different types of interactions in e-governance.
13. Explain any five types of internet services.