

EVERWIN MATRIC HR. SEC. SCHOOL

6.11.2019 TT Time: 45 Mins
 STD: XI (A-D) Bio-Botany Marks: 15
 I. Answer any 2 of the following: 2x2=4

1. Define Fluorescence.
2. Differentiate between photosystem-I and photosystem-II.
3. List out the types of excited states.

II. Answer any 2 of the following: 2x3=6

4. Write a note on photolysis of water.
5. Write a note on chemiosmotic theory.
6. Write a note on photosystem and reaction centre.

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

7. Explain the cyclic and non-cyclic photo phosphorylation with suitable diagram.
8. Define C₃ cycle/Dark reaction. Draw the flowchart for the same.

Bio-Zoology

Marks: 15

I. Answer any 3 of the following: 3x1=3

1. Give any one function of Frontal region.
2. Which is the seat of reflex action?
3. Which is the satiety region?
4. Which region controls olfactory reflex?

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

5. What are the functions of CSF. (any two)
6. What is meant by lazy gates?
7. Draw the olfactory organ and label its parts.

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

8. Write a note on Parasympathetic and Sympathetic Nervous System (any three points).

9. Write a note on Limbic System.

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

10. Write a note on Prosencephalon structure.
11. Write a note on Nerve Transmission of impulses.

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6.11.2019 TT Time: 45 Mins
 STD: XI (E,H,I) Business Mathematics Marks: 30
 I. Choose the correct answer: 6x1=6

1. If $f(x)=2^x$ and $g(x)=\frac{1}{2^x}$ then $(fg)(x)$ is _____.
 a) 1 b) 0 c) 4^x d) $\frac{1}{4^x}$
2. The minimum value of the function $f(x)=(x)$ is _____.
 a) 0 b) -1 c) +1 d) -∞
3. The graph of $y=2x^2$ is passing through _____.
 a) (0, 0) b) (2, 1) c) (2, 0) d) (0, 2)
4. The graph of the line $y=3$ is _____.
 a) parallel to x-axis b) parallel to y-axis
 c) passing through the origin d) perpendicular to x-axis
5. If $f(x)=x^2-x+1$, then $f(x+1)$ is _____.
 a) x^2 b) x c) 1 d) x^2+x+1

6. If $\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^x =$ _____.
 a) e b) 1 c) 0 d) n

II. Answer the following: 3x3=9

7. Evaluate $\lim_{x \rightarrow 0} \frac{\sqrt{1+x} - \sqrt{1-x}}{x}$
8. Show that $\lim_{x \rightarrow 0} \frac{\log(1+x^3)}{\sin^3 x} = 1$
9. Evaluate i) $\lim_{n \rightarrow \infty} \frac{\sum n^2}{n^3}$ ii) $\lim_{x \rightarrow 2} \frac{x^4+4}{x^2+1}$

III. Answer the following: 3x5=15

10. Let $f(x)=\frac{ax+b}{x+1}$, if $\lim_{x \rightarrow 0} f(x) = 2$ and $\lim_{x \rightarrow \infty} f(x) = 1$, then show that $f(-2)=0$
11. Examine the following functions for continuity at indicated points.

$$f(x) = \begin{cases} \frac{x^2-9}{x-3}, & \text{if } x \neq 3 \\ 6, & \text{if } x=3 \end{cases}$$

12. i) If $\lim_{x \rightarrow a} \frac{x^9-a^9}{x-a} = \lim_{x \rightarrow 3} (x+6)$, then find the values of 'a'.
 ii) Evaluate $\lim_{n \rightarrow \infty} x \tan\left(\frac{1}{x}\right)$

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6.11.2019 TT Time: 45 Mins
 STD: XI (H,I) Computer Application Marks: 30
 I. Answer any 4 of the following: 4x2=8

1. What is phishing?
 2. What is the role of ICANN?
 3. What are the components of Url addressing?
 4. What is CC and BCC in an e-mail?
 5. Name the two important protocols for internet.
- II. Answer any 4 of the following: 4x3=12
6. Differentiate Datacard and Dongles.
 7. Write a note on Hot spot internet service.
 8. What are the advantages of email?
 9. Differentiate Website and Webpage.
 10. What is the difference between static and dynamic webpage?
- III. Answer any 2 in detail: 2x5=10
11. Compare the different geographical types of Network.
 12. Classify and explain any five e-commerce parties with suitable examples.
 13. Explain the different types of interactions in e-governance.

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6.11.2019 TT Time: 45 Mins
 STD: XI (A-D) Computer Science Marks: 30
 I. Answer the following: 5x2=10

1. Define structure. What is its use?
 2. Why for passing a structure to a function call by reference is advisable to us?
 3. What is the error in the following structure definition.

```
Struct employee {inteno; charname[20]; char dept;};
Employee e1, e2;
```
 4. How will you pass a structure to a function?
 5. Write the syntax of structure with example.
- II. Answer the following: 5x3=15
6. What is called nested structure? Give example.
 7. How to access members of a structure? Give example.
 8. Define call by value and call by reference.
 9. What is called anonymous structure? Give example.
 10. Difference between array and structure.
- III. Answer in detail: 1x5=5
11. Explain array of structures with example.

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6.11.2019 TT Time: 45 Mins
 STD: XI (F,G) Economics Marks: 30
 I. Choose the correct answer: 7x1=7

1. Identify the advantages of rural roads.
 - a) Rural marketing
 - b) Rural employment
 - c) Rural development
 - d) All the above
 2. How much share of rural families in India is in debt?
 - a) Half
 - b) One fourth
 - c) Two third
 - d) Three fourth
 3. Identify the year of launch of MUDRA Bank.
 - a) 1995
 - b) 2000
 - c) 2010
 - d) 2015
 4. What is the other name for concealed unemployment?
 - a) Open
 - b) Disguised
 - c) Seasonal
 - d) Rural
 5. Which feature is identified with rural areas?
 - a) Low population density
 - b) High population density
 - c) Low natural resources
 - d) Low human resources
 6. Identify the features of rural economy.
 - a) Dependence on agriculture
 - b) High population density
 - c) Low level of population
 - d) Low level of inequality
 7. Identify an example for rural industries.
 - a) Sugar factory
 - b) Mat Making Industry
 - c) Cement industry
 - d) Paper industry
- II. Answer any 7 of the following: 7x2=14
8. Define Cottage Industry.
 9. What do you mean by Micro Finance?
 10. Define Rural Electrification.
 11. Define Open Unemployment.
 12. What do you mean by Rural Development?
 13. What is meant by Disguised Unemployment?
 14. State any two causes of housing problem in rural areas.
 15. Define Rural Poverty.
- III. Answer any 3 of the following: 3x3=9
16. Write a note on Regional Rural Banks.
 17. Mention the features of SHGs.
 18. State the importance of Rural Development.
 19. Enumerate the remedial measures to rural poverty.