EVERWIN MATRIC, HR. SEC. SCHOOL

03.07.19	T.T Biol	ogv	Time: 45 Mins		
Std: XII (B,D,E)	rd: XII (B.D.E) Bio-Botany		Marks: 30		
I. Choose the correct a	answer:	5	2x1=2		
1. The number of chro	mosomes in a	diploid cell of	Drosophila is		
a) 6 b)	8 c)	10 d) 1	12		
2 was the	first to sugges	t occurrence o	f distinct pairs		
of chromosomes.			-		
a) Sutton b)	Boveri c)	Montgomery	d) Morgan		
II. Answer any four of	the following:		4x2=8		
3. What is Synteny?					
4. List out the importance of crossing over.					
5. Parallelism between Mendelian factors and chromosomal behaviour.					
5. Differentiate between linkage and crossing over.					
7. List out the salient	features of the	e chromosoma	l theory of		
Inheritance.			J		
III. Answer any one in	detail:		1x5=5		
8. Explain the mechar	nism of crossin	ig over.			
-	(or)	-			
Write the steps invo	olved in molecu	lar mechanis	m of DNA		
recombination with	diagram.				
	Bio-Zoolo	ogy			
I. Answer any two of t	he following:		2x2=4		
1. Write a note on Amniocentesis to detect disorders.					
2. Write a note on foet	oscope.				
3. Write a note on ultra sound method to detect disorders.					
II. Answer any two of t	the following:		2x3=6		
4. Write a note on Rh factor hypotheis by Fisher and Race.					
5. Write a note on Wie	ner's hypothes	sis.			
6. Explain Erythroblas	stosis ioetalis.		1		
III. Answer any one in	detail:	D11.	1x5=5		

EVERWIN MATRIC. HR. SEC. SCHOOL 03.07.19 Time: 45 Mins T.T Commerce Std: XII (H,I,J) Marks: 40 I. Choose the correct answer: 15x1=15 1. Management is an \_\_\_\_\_. b) science c) both a and b a) art 2. Scientific Management is developed by . a) Taylor b) Mavo c) Fayol 3. What is the primary functions of management? a) Planning b) Controlling c) Innovating 4. Gen 'Z' = \_\_\_\_\_ 5. MBE = \_\_\_\_\_ 6. MBO = \_\_\_\_\_ 7. NIM = \_\_\_\_\_ 8. KRA = \_\_\_\_ 9. is a market for long term finance. a) Money market b) Capital market c) Debt market 10. When the NSEI was established? a) 1992 b) 1997 c) 1998 11. Match the following: a) Availability of resources a) KRA b) Fix objectives at lower level b) Appraisal of Activities c) Why the business is started c) Matching resources with objectives and exist? d) Identify the reasons for failure d) Setting subordinates targets e) Profitability and innovation e) Defining organisational objectives II. Answer the following: 12. Explain the various disadvantages of MBO. (8 Marks) 13. What are the benefits of MBO? (8 Marks)

- 14. What are the objectives of MBO?
- 15. Discuss the disadvantages of MBE.

- $(4\frac{1}{2} \text{ Marks})$
- $(4\frac{1}{2} \text{ Marks})$

- 7. Explain multiple alleles in A,B,O Blood group.
- 8. Explain Heterogametic males.

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4x2=8

4x3=12

2x5=10

03.07.19	T.T Computer Science	Time: 45 Mins
Std: XII (B,D,E)		Marks: 30

I. Answer any four of the following:

- 1. Write the syntax of if.....else statement.
- 2. Define control structure and write its type.
- 3. Write a program to check whether the given character is a vowel or not.
- 4. Write a note on pass statement.
- 5. What is the output of the following program.
  - for i in range (2, 10, 2):
  - print (i, end=' ')

else:

- print ("\n All has done")
- II. Answer any four of the following:
- 6. Distinguish between break and continue statement.
- 7. Explain the sequential statement with example.
- 8. Write the syntax of while loop with example.
- 9. Write a note on range () in loop.
- 10. Write the syntax of Branching statement.

III. Answer any two in detail:

- 11. Write a program to display the pattern:
  - ABCDE
  - A B C D
  - АВС
  - A B
  - А
- 12. Write a program to check if the given number is a palindrome or not.

## EVERWIN MATRIC. HR. SEC. SCHOOL T.T Maths Tim

03.07.19 Time: 45 Mins Std: XII (A,C) Marks: 30 I. Choose the correct answer: 5x1=5 1. If  $\frac{z-1}{z+1}$  is purely imaginary then |z| is \_\_\_\_\_. a)  $\frac{1}{2}$  b) 1 c) 2 d) 3 2. The principal argument of  $\frac{3}{-1+i}$  is \_\_\_\_\_. a)  $\frac{-5\pi}{6}$  b)  $\frac{-2\pi}{10^3}$  c)  $\frac{-3\pi}{4}$  d)  $\frac{-\pi}{2}$ 3. The value of  $\left(\frac{1+\sqrt{3}i}{1-\sqrt{3}i}\right)^{10}$  is \_\_\_\_\_. a) cis  $\frac{2\pi}{3}$  b) cis  $\frac{4\pi}{3}$  c) -cis  $\frac{2\pi}{3}$  d) -cis  $\frac{4\pi}{3}$ 4. If  $\alpha$  and  $\beta$  are the roots of x<sup>2</sup>+x+1=0, then  $\alpha^{2020} + \beta^{2020}$  is a) -2 b) -1 c) 1 d) 2 5. The principal argument of  $(\sin 40^{0}+i \cos 40^{0})^{5}$  is b) -70º a) -1100 c) 70<sup>0</sup> d) 110<sup>o</sup> II. Answer any three of the following: 3x2=66. Obtain the cartesian equation for the locus of z=x+iyin |z - 4| = 167. Find the modulus of  $\frac{2+i}{-1+2i}$ 8. Find the square root of 6-8i 9. Obtain the cartesian form of  $\bar{z}=z^{-1}$ . III. Answer any three of the following: 3x3=910. If z=x+iy is a complex number such that  $Im \left|\frac{2z+1}{iz+1}\right|=0$ , show that the locus of z is  $2x^2+2y^2+x-2y=0$ . 11. Show that the equation  $z^2=\bar{z}$  has four solutions. 12. If |z|=3, show that  $7 \le |z+6-8i| \le 13$ 13. Show that equation |3z - 6 + 12i| = 8 represent a circle and find its centre and radius. IV. Answer any two of the following: 2x5=1014. If  $z_1, z_2, z_3$  are three complex numbers such that  $|z_1| = 1, |z_2| = 2, |z_3| = 3$  and  $|z_1 + z_2 + z_3| = 1$  show that  $|9z_1z_2 + 4z_1z_3 + z_2z_3| = 6.$ 15. For any 2 complex numbers  $z_1$  and  $z_2$  such that  $|z_1| = |z_2| = 1$ and  $z_1 z_2 \neq -1$  then show that  $\frac{z_1 + z_2}{1 + z_1 z_2}$  is a real number. 16. Obtain the cartesian equation of i) |z + i| = |z - 1|ii) |2z - 3 - i| = 3

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Time: 45 Mins 03.07.19 T.T Economics Std: XII (F,G) Marks: 40 I. Choose the correct answer: 18x1=18 + Net factor income from abroad. 1. GNP= a) NNP b) NDP c) Personal income d) GDP 2. The financial year in India is \_\_\_\_\_. a) April 1 to March 31 b) March 1 to April 30 c) March 1 to March 16 d) January 1 to December 31 3. Frictional unemployment is otherwise called as a) Disguised b) Seasonal c) Educated d) Temporary 4. J.B.Say is a \_\_\_\_\_ economist. a) Neo classical b) Classical c) Modern d) New 5. Structural unemployment is a feature in a \_\_\_\_\_. a) Static Society b) Socialist Society c) Mixed economy d) Dynamic society 6. Which of the following is Aggregate supply? b) c) d) 7. According to classical theory, rate of interest is a reward for a) Investment b) Demand c) Capital d) Saving 8. J.M.Keynes is one of the greatest and most influential economists of the mid \_\_\_\_\_ century. a) 19<sup>th</sup> b) 20<sup>th</sup> c) 21st d) 15<sup>th</sup> 9. Expand MEC. 10. National income is measured by using \_\_\_\_\_ methods? d) 5 b) 3 c) 4 a) 2 11. The average income of the country is \_\_\_\_\_. a) Personal income b) Per capita income d) Disposal income c) Inflation Rate 12. occurs when more people are there than what is actually required. a) Educated unemployment b) Technical unemployment c) Disguised unemployment d) Structural unemployment 13. J.B.Say was a economist. c) American d) French a) Italin b) Russian 14. Which is the assumptions of the Say's law of market? a) Long run analysis b) Short run analysis c) Government intervention d) Price is fixed 15. \_\_\_\_\_ flexibility brings equality between saving and investment.

a) Demand b) Supply c) Capital d) Interest

16. Expand C+I+G+(X-M).

- 17. Which is a flow concept?
  - a) Total wealthb) Montly incomec) Money supplyd) Number of shirts
- 18. Expand PQLI.
- II. Answer any three of the following: 3x4=12
- 19. Define full employment.
- 20. Give reasons for labour retrenchment at present situation.
- 21. What is the main feature of rural unemployment?
- 22. Give a short note on Frictional unemployment.
- III. Answer any one of the following: 1x10=10
- 23. Critically explain Say's law of market.
- 24. Explain the differences between Classical theory & Keynes theory.