

10.07.19 T.T – Computer Science Marks: 30
 STD: XII (B,D,E) Time: 45 Mins

I. Answer any 5 of the following: 5x2=10

1. Define Control structures in python and write its type.
2. Distinguish between break and continue statement.
3. Define pass statement.
4. Write the syntax of for loop.
5. What is meant by Jump Statement and write its type.

6. Write the syntax of Entry check loop.

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

7. Write a program in python to calculate the sum of numbers 1 to 100.
8. Draw the flowchart to illustrate how looping construct gets executed.
9. Write the syntax for Alternate and Branching statement.
10. What is meant by nested loop structure and write its type.
11. Define continue statement & write its syntax and flowchart.
12. Define alternative and iteration structures.

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

13. Explain while loop with example.
14. Explain For loop with example

10.07.19 T.T – Commerce Marks: 30
 STD: XII (H,I,J) Time: 45 Mins

I. Choose the correct answer: 10x1=10

1. The two oldest money market are _____ and _____.
2. Expand RBI: _____
3. Expand NRI: _____
4. _____ bills are drawn without accompanying any document.
 a) clean b) Inland c) Usance
5. A treasury bill is of minimum for _____.
 a) 25 lakhs b) 9 lakhs c) 1 lakh
6. Money market institutions are _____.
 a) commercial banks b) Discount houses c) Both a & b
7. Money market provides _____.
 a) long term funds b) short term funds c) medium term funds
8. A major player in the money market is the _____.
 a) Central bank b) SBI c) Commercial bank
9. Minimum value for each share is _____.
 a) Rs.100 b) Rs.10 c) Rs.25

II. Answer the following:

10. What are the instruments of money market? (5 Marks)
11. Explain any 5 characteristics of money market. (5 Marks)
12. Difference between money market and capital market
 (10 Marks)

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10.07.19 T.T – Biology Marks: 30
 STD: XII (B,D,E) Bio-Botany Time: 45 Mins

I. Answer any two of the following: 2x2=4

1. List out the uses of Genetic mapping.
2. Mention the characteristics of multiple alleles.
3. Define co-mutagens.

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

4. List out the significance of Ploidy.
5. What is Allopolyploidy? Explain with an example.
6. Write a note on Inversion with diagram.

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

7. S. no	Gamete types	Number of progenies
1.	ABC	349
2.	Abc	114
3.	abC	124
4.	AbC	5
5.	aBc	4
6.	aBC	116
7.	ABc	128
8.	abc	360

- What is the name of this test cross?
 - How will you construct gene mapping from the above given data?
 - Find out the correct order of genes.
8. Write a note on Numerical chromosomal aberration.

Bio-Zoology

I. Answer any two of the following: 2x2=4

1. What is meant by x-lined and sex linked inheritance? Give examples.
2. What is meant by pedigree analysis?
3. What is meant by chromosomal abnormalities and what are the types?

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

4. Explain the significance of Y chromosome.
5. Explain the significance of Barr body.
6. Give an account on Patau's syndrome.

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

7. Write a note on Thalessemia and Turner's Syndrome.
8. Write a note on colour blindness with one example.

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10.07.19 T.T – Maths Marks: 30
 STD: XII (A,C) Time: 45 Mins

I. Choose the correct answer: 5x1=5

1. The principal argument of $\frac{3}{-1+i}$ is _____.
 a) $\frac{-5\pi}{6}$ b) $\frac{-2\pi}{3}$ c) $\frac{-3\pi}{4}$ d) $\frac{-\pi}{2}$
2. The value of $\left(\frac{1+\sqrt{3}i}{1-\sqrt{3}i}\right)^{10}$ is _____.
 a) $\text{cis } \frac{2\pi}{3}$ b) $\text{cis } \frac{4\pi}{3}$ c) $-\text{cis } \frac{2\pi}{3}$ d) $-\text{cis } \frac{4\pi}{3}$
3. The product of all four values of $\left(\text{cis } \frac{\pi}{3}\right)^{\frac{3}{4}}$ is _____.
 a) -2 b) -1 c) 1 d) 2
4. If $(1+i)(1+2i)(1+3i)\dots\dots(1+ni)=x+iy$ then $2.5.10\dots\dots(1+n^2)$ is
 a) 1 b) i c) x^2+y^2 d) $1+n^2$
5. The principal argument of $(\sin 40^\circ + i \cos 40^\circ)^5$ is _____.
 a) -110° b) -70° c) 70° d) 110°

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

6. Write in polar form $3-i\sqrt{3}$
7. Find the principal argument $\text{Arg}Z$, when $Z = \frac{-2}{1+i\sqrt{3}}$
8. Find the rectangular form of $\frac{\cos \frac{\pi}{6} - i \sin \frac{\pi}{6}}{2(\cos \frac{\pi}{3} + i \sin \frac{\pi}{3})}$
9. Given $(x_1+iy_1)(x_2+iy_2)(x_3+iy_3)\dots\dots+(x_n+iy_n)=a+ib$, show that
 i) $(x_1^2+y_1^2)(x_2^2+y_2^2)+\dots\dots+(x_n^2+y_n^2)=a^2+b^2$

III. Answer any 2 of the following: 2x5=10

10. If $Z=x+iy$ and $\arg\left(\frac{z-1}{z+1}\right)=\frac{\pi}{2}$ show that $x^2+y^2=1$
11. If $\cos\alpha+\cos\beta+\cos\gamma=\sin\alpha+\sin\beta+\sin\gamma=0$, show that
 i) $\cos 3\alpha+\cos 3\beta+\cos 3\gamma=3\cos(\alpha+\beta+\gamma)$
 ii) $\sin 3\alpha+\sin 3\beta+\sin 3\gamma=3\sin(\alpha+\beta+\gamma)$
12. If $\frac{1+Z}{1-Z}=\cos 2\theta+i \sin 2\theta$, shw that $Z=i \tan \theta$

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10.07.19

T.T – Economics

Marks: 40

STD: XII (F,G)

Time: 45 Mins

I. Choose the correct answer:

15x1=15

1. J.B.Say is a _____ economist.
a) Italian b) Russian c) French d) American
2. Which one of the following of assumptions of the Say's law of market?
a) Full employment b) Unemployment
c) Disguised unemployment d) Seasonal unemployment
3. J.B.Say's is an _____.
a) socialist b) capitalist c) industrialist d) agriculturist
4. The General Theory of Employment book is written by _____.
a) Marshall b) Adam Smith c) Robbins d) Keynes
5. Expand FU.
6. How many types of unemployment?
a) 6 b) 7 c) 8 d) 5
7. Classical theory advocates _____.
a) Balanced budget b) Surplus budget
c) Unbalanced budget d) Deficit budget
8. In disguised unemployment, the marginal productivity of labour is _____.
a) Static society b) Socialist society c) Dynamic society
d) Mixed economy
9. Aggregate supply is equal to _____.
a) $C+I+G$ b) $C+S+G+(X-m)$ c) $C+S+T+(X-m)$ d) $C+S+T+R_F$
10. _____ theory is a turning point in the development of modern economic theory.
a) Keynes b) Say's c) Classical d) Employment

11. According to classical theory, rate of interest is a reward for _____.

- a) investment b) demand c) capital d) saving
12. _____ flexibility brings equality between saving and investment.
a) Demand b) Supply c) Capital d) Interest
 13. The component of aggregate demand is _____.
a) personal demand b) Government expenditure
c) only export d) only import
 14. Say's law stressed the operation of _____ in the economy.
a) Induced price mechanism b) Induced demand
c) Induced investment d) Automatic price mechanism
 15. Keynes theory emphasized on _____ equilibrium.
a) very short run b) short run c) very long run d) long run
- II. Answer any 5 of the following: 5x3=15
16. Write any five differences between Classicism and Keynesianism.
 17. Explain Keynes theory in the form of flow chart.
 18. What do you mean by aggregate demand? Mention its components.
 19. Explain about aggregate supply with the help of diagram.
 20. Define Frictional unemployment.
 21. Define Educated unemployment.
- III. Answer any 1 of the following: 1x10=10
22. Describe the types of unemployment.
 23. Narrate the equilibrium between ADF & ASF with diagram.