

I. Choose the appropriate synonyms of the underlined word:

10x1=10

1.and followed this with our last ten of Sardines on biscuits.
 a) meat b) silver fish c) golden fish d) yellow fish
2.and they were now frozen solid.
 a) moulded b) chilled c) melt d) dry

Choose the appropriate antonym of the underlined word:

3.no more humps to tantalize us.
 a) flat b) mountain c) hill d) narrow valley

Fill in the blanks with phrasal verbs:

4. We ate a hearty breakfast before we _____.
 a) take over b) set off c) see off d) stop over

Fill in the blanks with right idioms:

5. When they had to climb through deep new snow the party sometimes had to _____.
 a) fetch and carry b) ducks in a row
 c) wait for the dust to settle d) round the corner

Form a compound word from the following options:

6. As our first partly _____ bottle of oxygen was now exhausted.
 a) half b) full c) weighting d) off

Read the following sentences and fill in the blanks:

7. If I had won the lottery, I _____ (donate) relief materials for the flood victims.
8. If my mother _____ (know) of my poor performance in the exam, she will not allow me to watch a movie.

Read the following complex sentence and circle the main clauses and underline the subordinate clauses.

9. Please tell me what the time is
10. No one knows when he will return.

II. Rewrite the sentence using 'if': 1x2=2

11. Tanya would not know the answer unless she referred to the answer key.

III. Read the set of poetic lines and answer the following: 7x1=7

12. Vext the dim sea: I am become a name;
 For always roaming with a hungry heart.
 a) Mention the figure of speech in the second line.
 b) What is "vext"?
 13. It little profits that an idle king
 By this still hearth, among these barren crags.
 Match with an aged wife.
 a) What is a 'hearth'?
 b) Who is the speaker?
 c) Pick out the alliterated words.
 14. Yet all experience is an arch where thro
 Gleams that untravell'd world, whose margin fades
 a) What is experience compared to?
 b) How do the lines convey that the experience is endless?
- IV. Explain any one of the following with reference to the context: 1x3=3
15. I cannot rest from travel: I will drink
 Life to the lees.
 16. He works his work, I mine.
- V. Answer the following questions: 1x3=3
17. Name an equipment and a tool carried by the climbers during their expedition.
 18. When did Hillary feel a sense of freedom and well-being?
- VI. Answer any one of the following in a paragraph of about 150 words: 1x5=5
19. What makes Ulysses seek newer adventures?
 20. "There is no height" no depth that the spirit of man, guided by higher spirit cannot attain" – Discuss the above statement in the context of achievement of Edmond Hillary and Tenzing".

I. Choose the appropriate synonyms of the underlined word:

10x1=10

1. They joined the resistance movement.

- a) aid b) fight c) peace d) promotion

2. One does not feel more optimistic after drinking.

- a) dejected b) gloomy c) hopeful d) hopeless

Choose the appropriate antonym of the underlined word:

3. There is also the mysterious etiquette.

- a) polite b) impolite c) dishonest d) rude

4. They had suffered horribly due to starvation.

- a) famine b) need c) want d) plenty

Fill in the blanks with the correct homophones given in the brackets:

5. He is a doctor _____ a singer. (beside / besides)

Fill in the blanks with the correct form of the verb:

6. They _____ about me when I interrupted their conversation
(talk)

7. The patient is critical. He _____ be taken to the hospital.

Fill in the blanks with modal verb:

8. You _____ attend my class.

Fill in the blanks with correct preposition:

9. The boy jumped _____ a narrow stream.

Fill in the blanks with a linker:

10. _____ you register your name, you cannot participate in the competitions.

II. Do as directed: 1x2=2

11. Ravi: Why do you look so sad today?

Raja: My friend met with an accident and I am going to see him in the hospital.

(or)

12. Expressing gratitude _____ others is common in a vote of thanks.

13. _____ working hard, he failed.

III. Read the set of poetic lines and answer the following: 7x1=7

'Oh then our maze of tunneled stone

Grew thin and treacherous as air,

The castle was lost without a groan,

The famous citadel overthrown.

14. Bring out the contrast in the first two lines.

15. What happened to the castle?

16. Mention the figure of speech used in the second line.

The giant wears the scarf, and flowers are hung.

In crimson clusters all the bough among!

17. Who is the giant here?

18. Why is the scarf colourful?

19. Name the figure of speech used in the first line.

20. What does 'crimson clusters' mean?

IV. Explain any one of the following with reference to the context:

1x3=3

21. O sweet companions, loved with love intense.

22. What could they offer us for bait?

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

23. What are the author's views on china tea?

24. What were the various jobs undertaken by the little boys?

VI. Answer any one of the following in a paragraph of

about 150 words: 1x5=5

25. What message is conveyed through the story "Two Gentlemen of Verona"?

26. "Water is the elixir of life": Substantiate the statement with reference to the story of 'Life of Pi'.

27. The poet immortalizes the tree – Elucidate.

I. Choose the correct answer: 5x1=5

- Fec-mer isomerism is shown by
a) $[\text{Co}(\text{En})_3]^{3+}$ b) $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]^+$ c) $[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$
d) $[\text{Co}(\text{NH}_3)_5\text{Cl}]\text{SO}_4$
- Which type of isomerism is exhibited by $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$?
a) coordination b) linkage c) optical
d) geometrical
- The sum of primary and secondary valance of the metal M in the complex $[\text{M}(\text{en})_2(\text{ox})]\text{Cl}$
a) 3 b) 6 c) -3 d) 9
- Which is not an anionic complex?
a) $[\text{Cu}(\text{NH}_3)_4]\text{Cl}_2$ b) $\text{K}_4[\text{Fe}(\text{CN})_6]$ c) $\text{K}_3[\text{Fe}(\text{CN})_6]$
d) $[\text{NiCl}_4]^{2-}$
- Which of the following is not true about secondary valency?
a) It corresponds to the co-ordination number of metal
b) It is satisfied by negative ions and neutral molecules
c) They are non-directional d) Both (a) and (b)

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

- What is coordination polyhedron.
- Calculate the ratio of $[\text{Ag}^+]/[\text{Ag}(\text{NH}_3)_2]^+$ in 0.2M solution of NH_3 .
If the stability constant of the complex $[\text{Ag}(\text{NH}_3)_2]^+$ is 1.7×10^7 .
- What is crystal field splitting energy?
- $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ is coloured, while $[\text{Sc}(\text{H}_2\text{O})_6]^{3+}$ is colourless explain.
- Identify the ligands based on the number of donor atoms.
a) en b) triaminotriethylamine c) H_2O d) ox^{2-}
- Draw the figure to show the crystal field splitting of d-orbitals in tetrahedral field.

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

- Differentiate primary and secondary valency.
- A solution of $[\text{Ni}(\text{H}_2\text{O})_6]^{2+}$ is green give reason.
- What are the limitations of VB theory.
- Give IUPAC names of the following:
i) $[\text{FeF}_6]^{4-}$ ii) $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$ iii) $[\text{Ag}(\text{NH}_3)_2]\text{Cl}$
- Explain the common types of isomerism observed in coordination compounds.

17. On the basis of VB theory explain the nature of bonding in $[\text{Fe}(\text{CN})_6]^{3-}$

IV. Answer any 2 in detail: 2x5=10

- Prove that $[\text{Ni}(\text{CN})_4]^{2-}$ is diamagnetic and $[\text{NiCl}_4]^{2-}$ is paramagnetic by using crystal field theory.
- Explain the postulates of VB theory.
- Give the uses of coordination compounds in biological systems.

I. Choose the correct answer: 5x1=5

1. A toaster operating at 240V has a resistance of 120Ω. The power is _____.
 a. 400W b. 2W c. 480W d. 240W
2. A piece of copper and another of germanium are cooled from room temperature to 80k. The resistance of _____.
 a. each of them increases b. each of them decreases
 c. copper increases and germanium decreases
 d. copper decreases and germanium decreases
3. In joule's heating law, when I and t are constant, if the H is taken along the Y axis and I² along the X axis, the graph is _____.
 a. straight line b. parabola c. circle d. ellipse
4. In an electromagnetic wave in free space the rms value of the electric field is 3Vm⁻¹. The peak value of the magnetic field is _____.
 a. 1.414x10⁻⁸T b. 1.0x10⁻⁸T c. 2.828x10⁻⁸T d. 2.0x10⁻⁸t
5. A radiation of energy E falls normally on a perfectly reflecting surface. The momentum transferred to the surface is _____.
 a. E/C b. E/C c. EC d. E/C²

II. Answer the following: [Any 4] 4x2=8

6. What is displacement current?
7. Compute the speed of the electromagnetic waves in a medium if the amplitude of electric and magnetic fields are 3x10⁴NC⁻¹ and 2x10⁻⁴T respectively.
8. Define temperature coefficient of resistance.
9. State Joule's law of heating.
10. Why current is scalar?
11. Define current density.

III. Answer the following: [Any 4] 3x4=12

12. State the applications of seebeck effect.
13. Write any 5 properties of electromagnetic waves.
14. Obtain the macroscopic form of ohm's law from its microscopic form.
15. State and explain Kirchoff rule's.
16. A magnetron in a microwave oven emits electromagnetic waves with frequency f=3000MHZ. What magnetic field strength is required for electrons to move in circular paths with this frequency?

IV. Answer in detail: [Any 3] 3x5=15

17. Briefly explain the types of spectra with suitable diagram.
18. Obtain the condition for bridge balance in wheat stone's bridge.
19. How the emf of two cells are compared using potentiometer?
20. Describe the microscopic model of current and obtain general form of OHM's law.

Everwin Matric. Hr. Sec. School
 04.09.19 Comprehensive Revision Programme-1 Marks:40
 Std:XII [I,J] [FN] Commerce Time: 1.15 Hrs
 I. Choose the correct answer: 5x1=5

- There is a weekly market for firewood in _____.
 a. Salem b. Madurai c. Karaikudi d. Karaikal
- There is a _____ market for horse in Andhiyur in Tamil Nadu.
 a. Monthly b. Quarterly c. Half-yearly d. Annual
- Who is supreme in the market?
 a. Customer b. Seller c. Wholesaler d. retailer
- The most liquid market in the world trades an average value of _____ trillion per day.
 a. \$2 b.\$3 c. \$4 d.\$5
- _____ aims at serving as a central securities depository.
 a. SHCIL b. OTCEI c. NSEI d. NCDS

II. Answer any four out of the following: 4x2=8

- What is a capital market?
- What is a mutual fund?
- Define product.
- What are the external factors affecting price of a product?
- Define grading.
- Define standardization.

III. Answer any four of the following: 4x3=12

- What are the various kinds of capital market? Explain.
- Discuss about the evolution and growth of Indian capital market.
- What are the documents required for a demat account?
- What is the need for market and explain the concept of Marketing?
- What are the objectives of marketing? (any 5 points).
- What is meant by management and marketing orientation?

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

- Explain the various types of New Financial Institutions.
- What are the benefits of dematerilisation?
- Explain the objectives of SEBI.
- Narrate the elements of marketing mix.

Everwin Matric. Hr. Sec. School
 04.09.19 Comprehensive Revision Programme Marks:40
 Std:XII-H [AN] Commerce Time:1.15 Hrs
 I. Choose the correct answer: 5x1=5

- Which one is the example of Intangible product?
 a. Education b. Mobiles c. Vehicles d. Garments
- _____ enables small investors to participate in the investment on share capital of large companies.
 a. Fixed deposits b. shares c. Mutual funds d. debentures
- Registering and controlling the functioning of collective investment scheme as _____.
 a. Mutual funds b. Dematerialisation
 c. Materlisation d. Rematerlisation
- Trading in dematerilised shares commenced on the NSE is _____.
 a. December 1994 b. December 1995
 c. December 1996 d. December 1997
- In the following variables which one is not the variable of marketing mix?
 a. place variable b. price variable
 c. Product variable d. program variable

II. Answer any four out of the following: 4x2=8

- Mention the headquarters of SEBI.
- Draw a chart on the two types of marketing mix.
- Write any two objectives of SEBI.
- What are the components of organised sectors?
- Write short notes on SEBI.
- What is debt market?

III. Answer any four of the following: 4x3=12

- Write a note on NCDS.
- What are the factors affecting price of product?
- What are the powers of SEBI under securities contract Act?
- Draw the organisation structure of SEBI.
- What do you mean by marketing mix? Describe any three elements.
- Explain about factoring and venture capital institutions.

IV. Answer the following: 3x5=15

- Discuss about the evolution of marketing.
- What are the benefits of dematerilisation?
- Briefly explain the functions of capital market.
- Narrate the elements of marketing mix.

Bio-Botany

I. Answer all: 3x1=3

1. Which of the following represents mega gametophyte?
 - a) Ovule b) Embryo sac c) Nucellus d) Endosperm

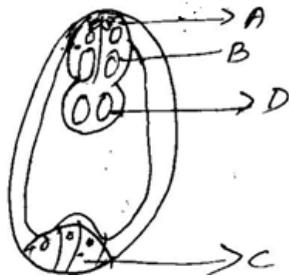
2. Match the following:

- | | | |
|------------|---|-------------------|
| a) Rhizome | - | Colocasia |
| b) Corm | - | Curcuma longa |
| c) Bulb | - | Centella asiatica |
| d) Runner | - | Allium cepa |

3. Scientist who reported polyembryony _____.

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

4. Find the parts of Embryo sac.



5. What is cap block?
6. Differentiate Monoecious and Dioecious.
7. Name the types of endosperm based on development.

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

8. What is the process of micro propagation?
9. Explain the types of entry of pollen tube into the ovule.
10. Comment on Aleurone tissue.

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

11. Write a note on contrivances of cross pollination.
12. What are the characteristics of anemophilous flowers?

Bio-Zoology

I. Answer any 2 of the following: 2x1=2

1. Expand – ES.
2. Expand – PCR.
3. What is the name of genetically engineered organism?

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

4. What are Attenuated vaccines?
5. What are the two advantages of cloning?
6. What is a stem cell?

III. Answer any 3 of the following: 3x3=9

7. Give three uses of Transgenic organism.
8. What are interferons?
9. Differentiate somatic gene therapy from germ line gene therapy.
10. Write a note on Biological products and their uses.

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

11. Write a note on PCR and its application.
12. Write a note on disadvantages of cloning.

EVERWIN MATRIC. HR. SEC. SCHOOL

04.09.19 Comprehensive Revision Programme -1 Marks: 40

STD: XII-C,D (FN) Computer Science Time: 1.15 Hrs

I. Choose the correct answer: 10x1=10

1. _____ is the main building block in Python.
a) class b) Object c) Keyword d) Function
2. Constructor must begin and end with _____.
a) double quote b) colon c) double underscore
d) comma
3. _____ are also called as instances of a class.
a) Variable b) Constructor c) Objects d) Functions
4. Every class has a unique name followed by _____.
a) ; b) , c) " " d) :
5. The symbol for union is _____.
a) π b) σ c) \cap d) 
6. _____ is the one who manages the complete database management system.
a) GIS b) GPS c) DBA d) BAD
7. Which model is faster to access data?
a) ER model b) Object c) Relational d) Network
8. Which constraint helps to set a limit value placed for a field?
a) check b) unique c) key d) constant
9. Which command is used to jump to a particular location?
a) INSERT b) ROLL BACK c) COMMIT d) SAVE POINT
10. Which keyword retains duplicate rows?
a) DISTINCT b) ALL c) CREATE d) ALTER

II. Answer any 4 of the following: (Q.No.15 is compulsory) 4x2=8

11. Write the components of SQL.
12. What is the difference between unique and primary key constraint?
13. What is normalization?
14. What are the advantages of DBMS?
15. What is class and instantiation?

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

16. What are private and public members?
17. What is the purpose of Destructor?
18. What is data and information?
19. Write the difference between select and project command.
20. Write any 3 DDL command.

IV. Answer any 2 in detail: 2x5=10

21. Explain datatypes in SQL.
22. Explain the type of data model.
23. Explain in detail private and public members of class in Python.

04.09.19 Comprehensive Revision Programme-1 Marks:40

Std:XII [A,B] FN Mathematics Time: 1.15 hrs

I. Choose the correct answer: 5x1=5

1. The equation of the circle passing through (1,5) and (4,1) and touching y-axis is $x^2+y^2-5x-6y+9+\lambda(4x+3y-19)=0$, where $\lambda =$ ____.

- a. $0, \frac{-40}{9}$ b. 0 c. $\frac{40}{9}$ d. $\frac{-40}{9}$

2. The radius of the circle $3x^2+by^2+4bx-6by+b^2=0$ is _____.

- a. 1 b. 3 c. $\sqrt{10}$ d. $\sqrt{11}$

3. The centre of the circle inscribed in a square formed by the lines $x^2-8x-12=0$ and $y^2-14y+45=0$ is ____.

- a. (4,7) b. (7,4) c. (9,4) d. (4,9)

4. P(x,y) be any point on $16x^2+25y^2=400$ with foci $F_1(3,0)$ and $F_2(-3,0)$ then PF_1+PF_2 is _____.

- a. 8 b. 6 c. 10 d. 12

5. When the eccentricity of an ellipse becomes zero, then it becomes a

- a. straight line b. circle c. point d. parabola

II. Answer for 4 questions, Q.no:10 is compulsory: 4x2=8

6. Identify the type of conic $11x^2-25y^2-44x+50y-256=0$.

7. Find the equation of parabola whose vertex (1,-2) and focus (4,-2).

8. Find the vertex, focus, equation of directrix and length of the latus rectum of $x^2=24y$.

9. Obtain the equation of the circle for which (3,4) and (2,-7) are the ends of a diameter.

10. For the ellipse $x^2+3y^2=a^2$, find the length of major and minor axis.

III. Answer for 4 questions, Q.no:15 compulsory: 4x3=12

11. Find the centre and radius of the circle $x^2+y^2-x+2y-3=0$.

12. Find the tangent and normal to the circle $x^2+y^2-6x+6y-8=0$ at (2,2).

13. Prove that the length of the latus rectum of the hyperbola

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1 \text{ is } \frac{2b^2}{a}.$$

14. Find the equation of ellipse, foci $(\pm 3,0)$ $e=\frac{1}{2}$.

15. For the hyperbola $3x^2-6y^2=-18$, find the length of transverse and conjugate axes and eccentricity.

IV. Answer for 3 questions: 3x5=15

16. Identify the conic type and find centre, centre, foci, vertices and directrices of the $18x^2+12y^2-144x+48y+120=0$.

17. Find the vertex, focus of directrices of the parabola $y^2-4y-8x+12=0$.

18. If the equation $3x^2+(3-p)xy+qy^2-2px=8pq$ represents a circle. Find p and q. Also determine the centre and radius of the circle.

19. Find the equation of the circle passing through the points (1,0), (-1,0) and (0,1).

20. If $y=2\sqrt{2}x+c$ is a tangent to the circle $x^2+y^2=16$, find the value of C.

I. Choose the correct answer: 5x1=5

1. Terms of Trade of a country show ____.
 - a. Ratio of prices of exports and imports
 - b. Ratio of import duties
 - c. Ratio of goods exported and imported
2. BOP includes _____.
 - a. invisible items only
 - b. visible items only
 - c. both a and b
3. _____ refers to foreign currencies.
 - a. BOT
 - b. FOREX
 - c. FUND
4. Comparative cost advantage was developed by _____.
 - a. Adam Smith
 - b. Ricardo
 - c. J.S.Mill
5. _____ are determined in foreign exchange rate.
 - a. Rate of interest
 - b. Exchange rate
 - c. Net Exports

II. Answer the following: [Any 4] 4x2=8

1. What is International Economics?
2. Define Terms of trade.
3. List out the types of BOP disequilibrium.
4. What is Foreign Exchange?
5. Define Comparative Cost Advantage.
6. What is International Trade?

III. Answer the following: [Any 4] 4x3=12

1. Describe the subject matter of International Economics.
2. Distinguish between Balance of trade and Balance of payments.
3. Write a brief note on flexible exchange rate.
4. List out the limitations of Modern Theory of International Trade.
5. Write the measures to correct BOP disequilibrium.
6. What are the determinants of Exchange rate?

IV. Answer the following: [Any 3] 3x5=15

1. Explain the disadvantage of FDI.
2. Discuss the difference between internal trade and International Trade.
3. Explain the types of Terms of Trade given by Viner.
4. Explain any two types of Exchange Rates.