I. Choose the correct answer:                3x1=3

1. Choose the correct pair:
    a) Rhytidome – Soil reactions
    b) Indicator of fire – Pteris
    c) Surface fire – Forest canopy
    d) Pedology – soil moisture

2. Which of the given plant produces cardiac glycosides?
    a) Acacia    b) Calotropis  c) Nepenthes  d) Utricularia

3. Choose the incorrect pair:
    a) Codominance – 1:2:1
    b) Snapdragon – Antirrhinum SP
    c) Punnett's square – Carl correns
    d) Hugo de vries – Mendel's experiment

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

4. Sandy soil is not suitable for cultivation. Explain why?

5. What are alleles?

6. Define Atavism.

7. Draw and label: An epiphytic plant-Vanda

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

8. Draw the flow chart of different types of gene Interactions.

9. What is Mutalism? Mention any 2 examples where the organisms involved are commercially exploited in modern agriculture.

10. What are the reasons for Mendel's successes in his breeding experiments?

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

11. Write a note on Incomplete dominance with an example.

12. List out the anatomical adaptations seen in Xerophytes.

Bio-Zoology

I. Choose the correct answer:                3x1=3

1. Haploid number of chromosomes are formed by meiosis and meiosis-I occurs in _____.
    a) Oogonia    b) Somatic cells    c) Primary oocyte
    d) Secondary oocyte

2. Nebenkern is made of _____ organelle.
    a) golgi body   b) Mitochondria    c) Centriole   d) E.R

3. Relaxin is secreted by _____.
    a) Ovary      b) Leydig cells        c) Placenta  d) Vagina

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

4. What is epimorphosis?

5. What is plasmotomy?

6. What is meant by Ferguson reflex?

7. What is TESE? Expand it and explain.

8. What is meant by strobilation?

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

9. What is meant by IUD? Explain on the different types of IUD.

10. Draw Oogenesis and label.

11. What is meant by corpus luteum and explain its role?

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

12. Explain the process of spermatogenesis.

13. Write a note on any two viral and bacterial diseases with two symptoms on each.

19.08.19     Comprehensive Revision Programme-1   Marks:40

Std:XII-[F]  [FN]            Economics               Time:1.15 Hrs

I. Choose the correct answer:                          5x1=5

1. Identify the flow variable
   a. Assests               b. money supply
   c. Income                d. Foreign exchange reserves

2. The Country following capitalism is _____.
   a. Russia   b. America          c. India      d. China

3. Who is referred as '' Father of Capitalism" ?
   a. Adam smith   b. Karlmarx     c. Thackeray d. Keynes

4. Macro economics is a study of _____.
   a. individuals     b. firms      c. a nation    d. aggregates

5. The term Globalism was coined by _____.
   a. Manfred D steger            b. Dorn Burch
   c. Adam smith                  d. Fischer and Startz

II. Answer the following: (any 4)                    4x2=8

6. Define 'Economic Model'.

7. What is meant by an 'Economy'?

8. Outline the major merits of capitalism.

9. What is meant by stock variables?

10. Define Red tapism and Bureaucracy.

11. Write the two sector, three sector, four sector economy
    formulas?

III. Answer the following: (any 4)                   4x3=12

12. Give short note on expenditure method.

13. Define GDP deflator.

14. Differentiate between personal & disposable income.

15. What is meant by Capital Gains?

16. Write the formula for GDP, GNP, GDP deflator, Real Income.

17. What is meant by Factor earning method?

IV. Answer the following: (any 3)                    3x5=15

18. Discuss the Scope of Macro Economics.

19. Compare the features of capitalism and socialism.

20. Discuss the importance of social accounting in economic
    Analysis.

21. Explain the importance of national income ?

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19.08.19     Comprehensive Revision Programme-1   Marks:40

Std:XII[I,J][FN]              Commerce              Time:1.15 Hrs

I. Choose the correct answer:                          5x1=5

1. Management is what a _____ does?
   a. Superior    b. Subordinate    c. Manager   d.
   Supervisor

2. There are _____ regional stock exchanges in the country.
   a. 24          b. 21          c. 22          d. 20

3. Jobbers transact in a stock exchange _____.
   a. for other brokers        b. for their own transactions
   c. for their clients        d. for other members

4. An optimistic speculator is _____.
   a. bear        b. bull        c. stag        d. lame duck

5. Human resource is a _____ asset.
   a. tangible    b. intangible    c. fixed      d. current

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

6. Give the meaning of the HR.

7. What are the types of speculator?

8. Explain dalal street.

9. Define stock exchange.

10. List out the management tools.

11. What do you mean by span of management?

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

12. Is management an Art or science?

13. What are the principles of Taylor?

14. Explain NSE.

15. Explain Lombard street.

16. Define HRM, according to Flippo.

17. State the functions of HRM.

IV. Answer the following:                             3x5=15

18. Difference between management and administration.

19. Explain the functions of stock exchange.

20. Discuss the operating functions of HRM.

21. Explain the unique features of HR.               OR

22. Discuss the implications of span of management.

19.08.19    Comprehensive Revision Programme-1    Marks: 40
STD: XII (FN)            Computer Science            Time: 1.15 hrs
(A,B,E)

## I. Choose the correct answer:                          10x1=10

1. The small sections of code that are used to perform a particular task is called _____.
   a) Sub routines    b) Files    c) Pseudo code    d) Modules

2. Which of the following is distinct syntactic blocks?
   a) Sub routines    b) Function  c) Files    d) Modules

3. _____ are expressed using statements of a programming language.
   a) Function    b) Subroutine    c) Algorithm    d) Structure

4. A sequence of immutable object is called _____.
   a) Built-in    b) list    c) Tuple    d) Derived data

5. The data type whose representation is unknown are called
   a) Built in data type        b) Derived data type
   c) Concrete data type        d) Abstract data type

6. Assertion: Selectors extracts individual pieces of information from the object.
   Reason: Selectors are functions that retrieve information from the data type.
   a) A is true but R is false    b) Both A & R is true
   c) A is false but R is True    d) Both A & R is false

7. "Assigned as" also called as _____.
   a) Equal as    b) Same as    c) Becomes    d) None

8. Containers for mapping names of variables to object is called
   a) Scope        b) Mapping    c) binding    d) Namespace

9. What is a part of program?
   a) module  b) local scope  c) Access control    d) Global scope

10. Find the odd one out:
    a) Procedures        b) Subroutines    c) Statements
    d) Functions

## II. Answer any 4 of the following:                    4x2=8
   [Q.No.15 is compulsory]

11. Differentiate interface and implementation.

12. What is definition?

13. What is a list? Give an example.

14. What is data abstraction?

15. How python represents the private and protected access specifiers?

## III. Answer any 4 of the following:                    4x3=12
   [Q.No.17 is compulsory]

16. Define Global scope with an example.

17. Which strategy is used for program designing? Define it.

18. What are the different ways to access the element of a list. Give example.

19. Why strlen is called pure function?

20. Differentiate pure and impure function.

## IV. Answer the following in detail:                    2x5=10

21. What are called parameters? Write a note on parameter without type.

22. How will you facilitate data abstraction. Explain it with suitable example.

23. Explain in detail about mapping with an example.

EVERWIN MATRIC. HR. SEC. SCHOOL
STD: XII-H    Comprehensive Revision Programme -1    Marks: 40
(FN)                    Accountancy            Time: 1.15 Hrs

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

1. From the following particulars ascertain profit or loss.

| Particulars | ₹ |
|---|---|
| Capital at the beginning of the year | 5,00,000 |
| Capital at the end of the year | 8,50,000 |
| Additional capital introduced | 1,20,000 |
| Drawing during the year | 70,000 |

2. From the following, calculate the missing figure.

| Particulars | ₹ |
|---|---|
| Closing capital as on 31/3/08 | 80,000 |
| Additional capital | 30,000 |
| Drawings | 15,000 |
| Opening capital | ? |
| Loss for the year | 25,000 |

3. Write the format for Total Debtors account.

4. Following are the balances in the books of Thomas as on 31st March 2019.

| Particulars | ₹ | Particulars | ₹ |
|---|---|---|---|
| Sundry creditors | 6,00,000 | Bills payable | 1,20,000 |
| Furniture | 80,000 | Cash | 20,000 |
| Land & Building | 3,00,000 | Bills receivable | 60,000 |
| Sundry debtors | 3,20,000 | Stock | 2,20,000 |

Prepare statement of affairs as on 31.3.19 and calculate capital as at that date.

5. Find out the opening capital:

| Particulars | ₹ |
|---|---|
| Cash | 80,000 |
| Stock | 1,80,000 |
| Debtors | 90,000 |
| Sundry creditors | 1,30,000 |
| Bank Loan | 60,000 |
| Bills payable | 80,000 |
| Plant & Machinery | 1,70,000 |

6. Find out the closing capital:

| Particulars | ₹ |
|---|---|
| Cash | 90,000 |
| Stock | 1,40,000 |
| Debtors | 2,00,000 |
| Sundry creditors | 1,95,000 |
| Loan | 60,000 |
| Bills payable | 45,000 |
| Land & Building | 1,70,000 |

II. Answer the following questions:          4x5=20

7. David does not keep proper books of a/c. Following details are given from his record.

| Particulars | ₹(1.4.18) | ₹ (31.3.18) |
|---|---|---|
| Cash | 43,000 | 29,000 |
| Stock | 1,20,000 | 1,30,000 |
| Debtors | 84,000 | 1,10,000 |
| Creditors | 1,05,000 | 1,02,000 |
| Loan | 25,000 | 20,000 |
| Buildings | 2,50,000 | 2,50,000 |
| Furniture | 33,000 | 45,000 |

Additional capital ₹45,000 Drawings ₹30,000 per year.
Prepare statement of profit or loss.

8. Find out the profit or loss for Ahmed account.

| Particulars | (Cr) 1.4.17 | (Dr) 31.3.18 |
|---|---|---|
| Bank | 14,000 | 14,000 |
| Cash | 8,000 | 1,500 |
| Stock | 12,000 | 16,000 |
| Debtors | 34,000 | 30,000 |
| Plant | 80,000 | 80,000 |
| Furniture | 40,000 | 40,000 |
| Creditors | 60,000 | 72,000 |

Ahmed withdrawn 40,000 for personal use. Additional capital 16,000. Provision of 5% made on debtors. Plant to be depreciated at 10%

9. From the following particulars calculate total purchase.

| Particulars | ₹ |
|---|---|
| Sundry creditors on 1/4/17 | 75,000 |
| Bills payable on 2/4/17 | 60,000 |

|                              |           |
|------------------------------|-----------|
| Paid cash to creditors       | 3,70,000  |
| Paid for Bills payable       | 1,00,000  |
| Purchase Returns             | 15,000    |
| Cash purchase                | 3,20,000  |
| Creditors on 31/3/18         | 50,000    |
| Bills payable 31/3/18        | 80,000    |

10. Calculate Total sales

| Particulars                        | ₹         |
|------------------------------------|-----------|
| Debtors 1/4/17                     | 1,50,000  |
| Bills receivable 1/4/17            | 40,000    |
| Cash received from debtors         | 3,90,000  |
| Cash received from Bills receivable | 90,000    |
| Bills receivable dishonoured       | 10,000    |
| Sales Return                       | 40,000    |
| Bills receivable on 31/3/18        | 30,000    |
| Sundry debtors on 31/3/18          | 1,30,000  |
| Cash sales                         | 2,00,000  |

III. Answer any 1 of the following:                           1x10=10

11. From the following detail you are required to calculate credit sales @ credit purchase by preparing total debtors a/c, total credit a/c, Bills receivable & Bills payable a/c.

| Particulars      | Opening | Closing |
|------------------|---------|---------|
| Debtors          | 60,000  | 55,000  |
| Bills receivable | 5,000   | 1,000   |
| Creditors        | 25,000  | 28,000  |
| Bills payable    | 2,000   | 3,000   |

Other information:

| |  |
|---|---|
| Cash received from Debtors      | 1,30,000 |
| Discount allowed to customers   | 5,500    |
| Cash paid to creditors          | 70,000   |
| Discount allowed by suppliers   | 3,500    |
| Payment against bills payable   | 7,000    |
| Cash received for Bills receivable | 14,000 |
| Bills receivable dishonoured    | 1,200    |
| Bad debts                       | 3,500    |

12. From the following information prepare trading, profit & loss a/c & Balance sheet as 31/12/18.

| Particulars      | 1/1/18  | 31/12/18 |
|------------------|---------|----------|
| Machinery        | 60,000  | 60,000   |
| Cash             | 25,000  | 33,000   |
| Debtors          | 70,000  | 1,00,000 |
| Stock            | 45,000  | 22,000   |
| Bills receivable | 20,000  | 38,000   |
| Loan             | 45,000  | 45,000   |
| Creditors        | 25,000  | 21,000   |

| | | | |
|---|---|---|---|
| Cash sales      | 20,000 | Credit sales       | 1,80,000 |
| Cash purchases  | 8,000  | Credit purchases   | 52,000   |
| Wages           | 6,000  | Salaries           | 23,500   |
| Advertisement   | 7,000  | Interest on bank   |          |
|                 |        | Loan               | 4,500    |
| Drawings        | 60,000 | Additional capital | 21,000   |

Adjustments:

Write off depreciation 10% on machinery. Create a reserve of 1% on debtors for doubtful debts.

STD: XII       Comprehensive Revision Programme -1   Marks: 40
(F-J) [AN]                    Business Maths              Time: 1.15 Hrs

**I. Choose the correct answer:**                          5x1=5

1. If $A=\begin{pmatrix} 2 & 0 \\ 0 & 8 \end{pmatrix}$, then p(A) is _____
   a) 0            b) 1            c) 2            d) n

2. The rank of the unit matrix of order 'n' is _____.
   a) n-1          b) n            c) n+1          d) $n^2$

3. The system of equations 4x+6y=5, 6x+9y=7 has _____.
   a) a unique solution            b) No solution
   c) infinitely many solutions    d) None of these

4. $|\Delta_{n \times n}|=3|adj.A|=243$ then the value is _____.
   a) 4            b) 5            c) 6            d) 7

5. If $\tau=\begin{pmatrix} & A & B \\ A & 0.7 & 0.3 \\ B & x & 0.8 \end{pmatrix}$ is transition probability matrix then x=_____
   a) 0.3          b) 0.2          c) 0.4          d) 0.7

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

6. Solve the equations 2x+3y=7, 3x+5y=9 by cramer's rule.

7. Show that the equations 3x-2y=6, 6x-4y=10 are inconsistent.

8. Two newspapers A & B are published in a city. Their present market shares are 15% for A and 85% for B. Of those who bought A the previous year 65% continue to buy it again while 35% switch over to B. Of these who bought B, the previous year, 55% buy it again and 45% switch over to A. Find their market shares after 2 years.

9. Find the rank of the matrix $A=\begin{pmatrix} -2 & 1 & 3 & 4 \\ 0 & 1 & 1 & 2 \\ 1 & 3 & 4 & 7 \end{pmatrix}$

10. Verify whether the given system of equation is consistent x-y+z=5, -x+y-z=-5, 2x-2y+2z=10.

11. A commodity was produced by using 3 units of labour and 2 units of capital, the total cost is Rs.62. If the commodity had been produced by using 4 units of labour and one unit of capital, the cost is Rs.56. What is the cost per unit of labour and capital? (Use determinant method)

**III. Answer any 4 of the following:**                     4x5=20

12. The total number of units produced (P) is a linear function of amount of over times in labour (in hours) (l), amount of additional machine time (m) and fixed finishing time (a).   (ie) P=a+bl+cm

From the data given below, find the values of constants a, b and c

| Day | Productions (in units P) | Labour (in Hrs (l)) | Additional Machine Time (in Hrs m) |
|---|---|---|---|
| Monday | 6,950 | 40 | 10 |
| Tuesday | 6,725 | 35 | 9 |
| Wednesday | 7,100 | 40 | 12 |

Estimate the production when overtime in labour is 50 hrs and additional machine time is 15 hrs.

13. Show that the system of equations have unique solution, x+y+z=3, x+2y+3z=4, x+4y+9z=6 by rank method.

14. At marina two types of games viz., Horse riding and Quad Bikes riding are available on hourly rent. Keren and Benita spent Rs.780 and Rs.560 during the month of May.

| Name | No. of hours | | Total amount spent (in Rs.) |
|---|---|---|---|
| | Horse Riding | Quad Bike Riding | |
| Keren | 3 | 4 | 780 |
| Benita | 2 | 3 | 560 |

Find the hourly charge for the two games (rides) (Use determinant method)

15. Two products A & B currently share the market with shares 50% and 50% each respectively. Each week some brand switching takes place. Of those who bought A the previous week, 60% buy it again whereas 40% switch over to B. Of those who bought B the previous week, 80% buy it again whereas 20% switch over to A. Find their shares after one week and after two weeks. If the price war continues, when is the equilibrium reached?

16. Two types of soaps A & B are in the market. Their present market shares are 15% for A and 85% for B. Of those who bought A the previous year, 65% continue to buy it again while 35% switch over to B. Of those who bought B the previous year, 55% buy it again and 45% switch over to A. Find their market shares after one year and when is the equilibrium reached?

17. If $A=\begin{pmatrix} 1 & 1 & -1 \\ 2 & -3 & 4 \\ 3 & -2 & 3 \end{pmatrix}$ and $B=\begin{pmatrix} 1 & -2 & 3 \\ -2 & 4 & -6 \\ 5 & 1 & -1 \end{pmatrix}$ then find the rank of AB and the rank of BA.

19.08.19     Comprehensive Revision Programme-1     Marks: 40

STD: XII (F-J)          Computer Application          Time: 1.15 hrs

(AN)

I. Choose the correct answer:                          10x1=10

1. The live telecasting of real time program through internet is known as _____.

   a) Web casting    b) Web hosting  c) Data Manipulator

   d) None of the above

2. _____ is the process displaying still image they give continuous movement.

   a) Text formats      b) Sound      c) MP3      d) Animation

3. GIF use _____ color look up table.

   a) 8 bit        b) 8 kB        c) 8MB        d) 8GB

4. A _____ tool is used for magnifying the particular portion of the area.

   a) Text tool    b) Live tool    c) Zoom tool  d) Hand tool

5. You need hardware, software and to make multimedia

   a) Network    b) Compact disk drive    c) Good idea

   d) Programming knowledge

6. Statement which is used to make choice between two options and only option is to be performed is written as

   a) if statement              b) if else statement

   c) then else statement      d) else one statement

7. _____ tool is used for drawing boxes.

   a) Line        b) Ellipse      c) Rectangle  d) Text

8. RTF file format was introduced by _____.

   a) TCS        b) Microsoft  c) Apple        d) IBM

9. Vector images are used to create _____ objects.

   a) Lines        b) Rectangle  c) Circle    d) All of the above

10. _____ statement is used to perform different actions based on different conditions.

   a) if            b) if-else        c) if else if else      d) switch case

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

  [Q.No.14 is compulsory]

11. Define Multimedia and their features.

12. Classify the IMAGE component in Multimedia.

13. What is threading text blocks?

14. Write syntax of Switch statement.

15. Compare if and if else statement.

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

  [Q.No.19 is compulsory]

16. Mention three tools in pagemaker and write their keyboard shortcuts.

17. How will you create a new master page in pagemaker?

18. Write notes on MP3 audio file format.

19. Write the features of Conditional statement in PHP.

20. What is the purpose of if elseif else statement?

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

21. Explain in detail about production team role and responsibilities.

22. Explain if else statement in PHP.

23. Briefly explain about Multimedia Components.

19.08.19     Comprehensive Revision Programme -1     Marks: 30
STD: XII (A-E)                தமிழ்                Time: 1Hr
[AN]

I. பலவுள் தெரிக:                                                4×1=4

1. 'குழிமாற்று' எந்தத் துறையோடு தொடர்புடைய சொல்?

அ) இலக்கியம்  ஆ) கணிதம்   இ) புவியியல்   ஈ) வேளாண்மை

2. 'விண்வேறு; விண்வெளியில் இயங்கு கின்ற

வெண்மதியும் செங்கதிரும் முகிலும் வேறு"

இத்தொடர் தரும் முழுமையான பொருள்: _____

அ) விண்ணும் வெண்மதியும் வேறு வேறு

ஆ) விண்வெளியும் செங்கதிரும் வேறு வேறு

இ) வெண்மதியும் முகிலும் வேறு வேறு

ஈ) விண், விண்வெளியில் உள்ள வெண்மதி, செங்கதிர் முகில்

அனைத்தும் வேறு வேறு

3. 'மகாமகோபாத்தியாய' என்ற பட்டம் யாருக்கு வழங்கப்பட்டது?

அ) சுரதா       ஆ) உ.வே.சா   இ) ஒளவையார்   ஈ) சி.மணி

4. மது குடித்துவிட்டு ஊர்தியை இயக்கினால் ரூ_____ தண்டத்தொகை

கட்ட நேரும்.

அ) 5,000      ஆ) 15,000     இ) 10,000      ஈ) 2,000

II. தொடரில் உள்ள பிழைகளை நீக்கி எழுதுக:          2×1=2

5. ஐப்பசி அடைமழையில் ஊருணி நிரைந்தது.

6. நம் மாநிலம் இந்த ஆண்டு வரட்சியால் பாதிக்கப்பட்டது.

III. பின்வரும் ஆங்கிலச் சொற்களுக்கு ஏற்ற கலைச்சொற்கள் தருக: 4×½=2

7. Take off          8. Passport     9. Domestic flight

10. Departure

IV. பின்வரும் சொல்லைப் பிரித்தும் சேர்த்தும் தொடரமைக்க:  1×2 =2

11. தலைமை

2×2=4

V. பின்வரும் வினாக்களுள் எவையேனும் இரண்டனுக்குக் குறுவிடை தருக:

12. எது புகழ், எது செல்வாக்கு?

13. எத்திசையிலும் சோறு தட்டாது கிட்டும் - யாருக்கு?

14. அக்காலத்துக் கல்விமுறையில் மனைப் பயிற்சிக்குப் பயன்பட்ட நூல்கள்

எவை?

1× 4 =4

VI. பின்வரும் வினாக்களுள் ஏதேனும் ஒன்றனுக்குச் சிறுவிடை தருக:

15. நீவிர் ஆசிரியரானால் மாணாக்கரை அன்பினால் எவ்வகையில்

நெறிப்படுத்துவீர்?

16. 'வாயிலோயே' - எனத் தொடங்கும் ஒளவையாரின் புறநானூற்றுப்பாடல்

பாடாண் திணைக்கு உரியது என்பதை நிறுவுக.

VII. பின்வரும் வினாக்களுள் ஏதேனும் ஒன்றனுக்கு நெடுவிடை தருக1× 6 =6

17. கவிதை எழுத அறிய வேண்டுவனவாகச் சுரதா கூறுவனவற்றை விவரிக்க.

18. 'சாலை விபத்தில்லாத் தமிழ்நாடு' - இக்கூற்று நனவாக நாம் செய்ய

வேண்டியன யாவை?

VIII. அடிபிறழாமல் எழுதுக:                              1× 4 =4

19. 'அறிவும்' - எனத் தொடங்கும் ஒளவையாரின் புறநானூற்றுப் பாடல்.

IX. இலக்கணக் குறிப்பு தருக:                          2×1=  2
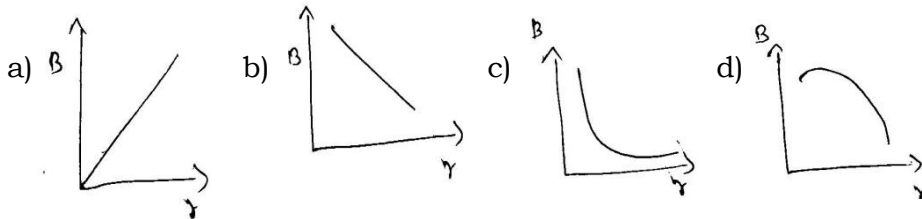
20. வயங்குமொழி            21. அறிவும் புகழும்

19.08.19        Comprehensive Revision Programme-1        Marks: 40

STD: XII-(C,D)                    Physics                    Time: 1.15 hrs

[FN]

## I. Choose the correct answer:                                    5x1=5

1. The value of gyro-magnetic ratio is _____.

    a) 8.78 x 1010 ckg$^{-1}$              b) 8.78 x 1010 ckg$^{-1}$

    c) 8.78 x 1010 ckg$^{-1}$              d) 8.78 x 1010 ckg$^{-1}$

2. Which among the following is an example for electromagnets?

    a) Steel        b) Alnico        c) Soft iron    d) Carbon

3. A thin insulated wire forms a plane spiral of N=100 tight turns carrying a current I=8mA (milli ampere). The radii of inside and outside turns are a=50mm and b=100mm respectively. The magnetic induction at the center of the spiral is _____.

    a) 5 µT        b) 7 µT        c) 8 µT        d) 10 µT

4. Ampere's circuital law is another form of _____.

    a) Tangent law                    b) Biot-Savart law

    c) Ampere's Swimming rule        d) End rule

5. Which of the following graphs shows the variation of magnetic induction B with distance 'r' from along wire carrying current?

a)        b)        c)        d)

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

6. State the properties of magnetic field lines.

7. Define Tangent law.

8. Using the relation $\vec{B}=\mu_0(\vec{H}+\vec{M})$, show that $X_m=\mu_r-1$

9. Differentiate between paramagnetic and ferromagnetic materials.

10. Define Maxwell's right hand cork screw rule.

## III. Answer the following questions:                    4x3=12

11. State and explain Biot-Savart law.

12. Define curie and curie-weiss law.

13. Show that the time period of oscillation when a bar magnet is kept in a uniform magnetic field is $T=2\pi\sqrt{\dfrac{I}{P_m B}}$ in second, where I represent moment of Inertia of the bar magnet, $P_m$ is the magnetic moment.

14. Explain magnetic field of the current carrying wire of infinite length using Ampere's law.

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

15. Derive an expression for the magnetic dipole moment of revolving electron.

16. Derive an expression for the magnetic field at a point along the equatorial line due to a magnetic dipole.

17. Derive an expression for the magnetic field due to a long current carrying solenoid.

18. Explain the construction, precautions and working of Tangent Galvanometer. (Diagram not necessary)

19.08.19      Comprehensive Revision Programme-1      Marks: 30
STD: XII-G (FN)                    English                    Time: 1Hr

10x1=10

I. Choose the correct synonym of the underlined word from the options given below:

1. And very soon this trolley was <u>commandeered</u>.
   a) hijacked    b) blocked    c) driven    d) pulled

2. Nor can I see any <u>nobility</u> in the crying.
   a) loyalty    b) capability   c) accuracy  d) decency

Choose the correct antonym of the underlined word from the options given below:

3. This trolley was commandeered by an <u>intrepid</u> crew of two.
   a) daring    b) brave    c) fearful    d) bold

4. Nor can we <u>appreciate</u> warmth if we have never experienced are
   a) admire    b) praise    c) exact    d) criticize

5. Spot the errors in the following sentence:
i) After the complicated surgery, the patient hoped of complete recovery.
ii) I had my evening meals in a restaurant near my office.

Form a phrase with each of the following pairs of nouns given below:

6. digestion + enzymes = _____

7. glory + victory = _____

Add the suitable question tags to the following sentences and punctuate properly:

8. Let's clean the shelves this weekend _____.

9. Anita never comes late to office _____.

Correct the error found in the question tag in the following:

10. I claim to be a person of faith and prayer, aren't I?

II. Read the following sets of poetic lines and answer the questions below:                    7x1=7

    "And then the justice,

    In fair round belly with good caponlin'd,
    With eyes severe and beard of formal ct,
    Full of wise saws and modern instances";

11. Whom does justice refer to?
12. Describe his appearance.
13. How does he behave with the people around him?
14. What does he do to show his wisdom?

    "Then a  soldier,
    Full of strange oaths, and bearded like the pwd.
    Jealous in honour, sudden and quick in quarrel
    Seeking the bubble reputation
    Even in the cannon's mouth.

15. What is the soldier ready to do?
16. Explain 'bubble reputation'.
17. Mention the figure of speech in the fourth line.

III. Explain with reference to the context (Any one):    1x3=3

18. "They have their exits and their entrances;
       And one man in his time plays many parts,

19. Is second childishness and mere oblivion;
    Sans teeth, sans eyes, sans taste, sans everything.

IV. Do as directed:                    2x1=2
    Change the following sentences into passive voice:
20. Where had you kept the book?
    Change the following sentence into active voice:
21. You are requested to make a cup of a tea for the guest.

V. Answer any one of the following:          1x3=3
22. What thoughts troubled Dr.Christiaan Barnard as he neared the end of his career as a heart surgeon?
23. What was the profound lesson that Dr.Barnard learnt from the boys?

VI. Answer any one of the following in a paragraph of 100-150 words:                    1x5=5
24. Trace the bond of friendship between Baldwin and Gresham. Explain why Baldwin wished to attribute some credit to his friend.
25. Describe the various stages of a man's life picturised in the poem "All the world's a stage".

१. सही उत्तर चुनकर खाली जगह पूरी कीजिये – 10x1=10

(i) बलि के गुरू _____ हैं ।

   (क) शुक्राचार्य   (ख) नरहरिदास

(ii) विभीषण _____ का भाई था ।

   (क) रावण   (ख) सुग्रीव

(iii) तुलसीदास के गुरू _____ हैं ।

   (क) रामानन्द   (ख) बाबा नरहरिदास

(iv) तुलसीदास गणपति से _____ वर माँगते हैं ।

   (क) शिव दर्शन का   (ख) राम दर्शन का

(v) सरल वचन _____ समान है ।

   (क) तीर   (ख) औषध्य

(vi) किसी की बात सुनकर _____ प्रभाव पड़ता हैं ।

   (क) दिमाग पर   (ख) सारे अंगों पर

(vii) उच्च पढ़ पाकर मनुष्य का _____ होता है ।

   (क) विकास   (ख) पतन

(viii) अद्यमति श्री अभ्यास करते-करते _____ हो जाता है ।

   (क) भोला-भाला   (ख) चतुर

(ix) तालस्ताय फार्म की स्थापना _____ ने की थी ।

   (क) महात्मा गाँधी   (ख) नेहरू

(x) स्त्रियों और पुरूषों को _____ रखा जाए ।

   (क) अलग-अलग ,   (ख) मिलाकर

२. निम्नलिखित प्रश्नों में से किन्ही तीन प्रश्नों के उत्तर लिखिए-
3x2=6

(क) मित्र और पूज्य कौन हैं ?

(ख) हमें अपनी शाम कब प्रकट करनी चाहिए ?

(ग) गाँधी जी ने दक्षिण अफ्रीका में क्यों सत्याग्रह का युद्ध आरम्भ किया ?

(घ) जूते की आवश्यकता दूर करने के लिए गाँधीजी ने कौन-सी योजना बनाई थी ?

३. निम्नलिखित प्रश्न का उत्तर दीजिए - 3x1=3

(i) तालस्ताय फार्म की बनावट कैसी थी ?
या
(ii) भगवान राम के प्रेम के बारे में तुलसीदास का विचार क्या है?

४. संदर्भ सहित व्याख्या कीजिए - 4x1=4

मोदकप्रिय - मुद मंगल दाता । विद्या वारिधि बुद्धि विधाता ।
माँगत तुलसीदास कर जोरे। बसहिं राम सिय मानस मोरे ।।
या

५. श्रृंगार रस के लक्षण बताइए ?         4x1=4

६. परिपत्र किसे कहते हैं ?         2x1=2

७. ई-मेल किसे कहते है ?         2x1=2

८. सप्रसंग व्याख्या कीजिए :         5x1=5

(i) मेरे कई चेले इस कला में मुझसे बहुत आगे बढ़ गये ।

९. निम्नलिखित प्रश्नों के उत्तर दीजिए:- 4x2=8

(i) वाक्यों में प्रयोग कीजिए— श्री गणेश करना, साबित करना

(ii) सन्धि कीजिए- देव+आलय , जगत+नाथ

(iii) पारिभाषिक शब्द - Agent , Custom .

(iv) सूचना के अनुसार बदलिये—
(क) राम ने रावण को मारा । (वाच्य बदलिये)
(ख) किसान गांव में रहता है । (वचन बदलिए)

# EVERWIN MATRIC HR. SEC. SCHOOL

**STD. XII(A-D)     C R P  1 – FRENCH    MARKS: 50**
**Date: 19-8-19                                    TIME:1h 15 min.**
**(AN)**

I  **Traduisez en anglais:**                                    (2 x 5 = 10)

 **A.  Un accident**

Un jeune homme en volant de la voiture a renversé une dame au carrefour. Une foule  bloque la circulation.  Le gendarme se présente sur la scène de l'accident.

**Le gendarme**:  Qu'est-ce qui s'est passé ?
**Le témoin**:     Ce jeune homme a renversé cette pauvre dame.
**Le chauffeur**: Mais non, elle a traversé la rue sans faire attention !
**La dame**:       Ce n'est pas vrai ! Sans blague ! Monsieur, ce jeune homme a grillé le feu rouge. Vous n'avez pas bien appris le code ! Vous avez le permis ?
**Le chauffeur**: Madame, regardez les feux ! Le rouge clignote. Il ne marche pas !On regarde avant de traverser la rue. Vous avez couru comme une foule au milieu de la rue !
**Le témoin**:     Non, c'est la faute du chauffeur ! Il a conduit a toute allure et n'a pas ralenti la voiture.

**Chez M. Murthy**

Assis dans leur salon, deux grands-parents, Monsieur et  Madame Murthy, discutent du comportement des jeunes face aux gadgets modernes. **Murthy:**        Sunita, regarde ces enfants ! Sanjay fait son devoir
en regardant la télé. Et Vidya, elle mange en lisant les messages dans son portable. Notre belle - fille, fait de la cuisine en parlant au téléphone à sa famille. Et notre fils, reste indifférent à  tout cela!
**Sunita:**        Qu'est-ce qu'on peut faire ? On vit à  l'ère de la technologie. À l'époque, il n'y avait pas de télé.. Toutefois, nous étions plus sociables, nous étions plus communicatifs.
**Murthy:**       Oui, autrefois , sans ces gadgets, nous étions plus heureux et moins stressés.
**Sunita:**        C'est la faute des parents ! En achetant tous ces gadgets, ils gâtent les enfants.

II  **Ecrivez un des dialogues au choix :**                (1 x 2 = 2)
   a) Vous avez retrouvé un porte-monnaie au milieu de la rue. Vous le rendez au commissariat de police. Imaginez et rédigez le dialogue.
   b) Entre vous et votre ami sur l'usage du téléphone portable.

III  **Ecrivez une des lettres au choix:**                (1 x 4 = 4)
   a) A votre ami en lui décrivant le nouveau smart phone que vous avez acheté.
   b) A votre ami lui décrivant une mésaventure qui vous est arrivée.

IV  **Ecrivez une redaction:**                          (1 x 4 = 4)
   Les avantages et les inconvénients des réseaux sociaux.

V  **Grammaire:**                                      (6 x 5 – 30)

   1.  **Mettez les phrases à l'imparfait de l'indicatif:**
       a) Nous regardons la télévision.
       b) Vous avez des amis.
       c) Je prépare un examen.
       d) Mano et Madhu prennent le métro pour aller au travail
       e) Veux-tu visiter l'Orangerie?

   2.  **Réécrivez les phrases avec le gérondif :**
       a) J'ai découvert beaucoup de choses quand je surfais sur internet.
       b) Il siffle quand il conduit la voiture.
       c) Elle boit le café quand elle lit le journal.
       d) Le professeur explique la grammaire et il écrit au tableau.
       e) Elle a bien connu la France, elle a beaucoup voyagé.

   3.  **Répondez au négatif en utilisant ne…plus :**
       a) Il nous reste du chocolat dans le frigo ?
       b) Vous mangez encore de la viande ?
       c) Elle suit toujours un régime ?
       d) Vous travaillez toujours aux États-Unis ?
       e) Tu es toujours en contact avec tes camarades de classe ?

   4.  **Mettez les phrases au passé composé:**
       a) Paul et Michèle arrivent devant le Palais de Versailles.
       b) Les écoliers commandent une pizza.
       c) Tu bois beaucoup de jus de pamplemousse.

d) Ramesh va au marché.
e) Vous rentrez de Bordeaux?

**4. Reliez les deux phrases par une expression de la cause :**
5.

a) Il y a eu un accident. La circulation est bloquée.
b) Mes voisins sont inquiets. Leur fille n'est pas encore rentrée.
c) L'élève a obtenu de meilleures notes. Il a bien travaillé.
d) Elle est très riche. Elle voyage souvent.
e) La mère emmène son fils chez le médecin. Son fils est
enrhumé.

**6. Associez :**

| A | B |
|---|---|
| a) Je n'ai pas envoyé le mél | i) comme il a eu un empêchement. |
| b) Il n'est pas venu | ii) comme il est pressé. |
| c) Tu es arrivé en retard | iii) parce que je n'ai pas eu de connexion Internet. |
| d) Elle n'est pas allée au mariage | iv) parce qu'il y avait des embouteillages. |
| e) Il a brûlé le feu | v) parce qu'elle est fatiguée. |

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