

I. Choose the correct answer:

5x1=5

1. Which one of the following equation is correct with respect to an ammeter?

- a) $I_g G = I_g S$ b) $(I - I_g) = I_g S$ c) $I_g G = (I - I_g) S$ d) $I_g G = (I + I_g) S$

2. An ammeter of resistance of 0.8Ω can measure current upto

2A. What must be the shunt resistance to enable the ammeter to measure current upto 10A?

- a) 0.1Ω b) 0.2Ω c) 0.3Ω d) 0.4Ω

3. The unit of tesla _____.

- a) $NA^{-3}m^{-1}$ b) $NA^{-2}m^{-3}$ c) $NA^{-3}m^{-2}$ d) A^3m^{-2}

4. An ideal voltmeter has _____ resistance.

- a) low b) high c) zero d) infinite

5. Relation between current and drift velocity is _____.

- a) $I = ncAv_d$ b) $I = Av_d$ c) $A = I_A ev_d$ d) $I = ev_d$

II. Answer any 4 of the following:

4x2=8

6. Why the phosphor-bronze wire is used as the suspension wire in moving coil galvanometer?

7. Write the limitations of cyclotron.

8. Define tesla.

9. Define ampere.

10. State Fleming's left hand rule.

III. Answer any 4 of the following:

4x3=12

11. Dielectric strength of air is $3 \times 10^6 \text{ vm}^{-1}$. Suppose the radius of a hollow sphere in the Vande Graff generator is $R=0.7\text{m}$, calculate the maximum potential difference created by this Vande Graff generator.

12. State and explain Magnetic Lorentz force.

13. A parallel plate capacitor has square plates of side 5cm and separated by a distance of 1mm.

a) Calculate the capacitance of this capacitor

b) If a 6v battery is connected to the capacitor, what is the change in any one of the plates ($\mu_0 = 8.85 \times 10^{-12} \text{ Nm}^2\text{c}^2$)

14. Explain motion of charged particle in a uniform magnetic field.

15. An electron moving perpendicular to a uniform magnetic field 0.500 T undergoes circular motion of radius 2.80mm. What is the speed of electron?

IV. Answer any 3 of the following:

3x5=15

16. Explain the principle, construction and working of cyclotron.

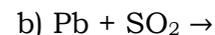
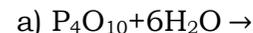
17. Derive an expression for magnetic field due to the current carrying wire of infinite length using Ampere's law.

18. Explain the conversion of galvanometer into ammeter.

19. Derive an expression for force on a current carrying conductor placed in a magnetic field.

- Angrosite is an ore of
a) Aluminium b) Iron c) Copper d) Lead
 - Ores associated with nonmetallic impurities and rocky material is
a) Flux b) Gangue c) Slag d) None of these
 - Considering Ellingham diagram, which of the following metals can be used to reduce alumina?
a) Fe b) Mg c) Zn d) Cu
 - Zirconium can be refined by $Zr+2I_2 \xrightarrow{523K} ZrI_4$
a) Liquation b) Van Arkel process c) Zone refining
d) Mond's process
 - In the Ellingham diagram, for the formation of carbon monoxide
a) $\frac{\Delta S^0}{\Delta T}$ is negative b) $\frac{\Delta G^0}{\Delta T}$ is positive c) $\frac{\Delta G^0}{\Delta T}$ is negative
d) None of these
 - Haber's process is used to synthesise
a) Nitrogen b) Ammonia c) Nitric oxide d) Nitric acid
 - _____ used in the preparation of aquaregia.
a) Nitric acid b) Sulphuric acid c) Both a & b
d) All of the above
 - _____ phosphorous gives phosphorescence.
a) Red b) White c) Scarlet d) Violet
 - Sulphur exists as sulphate in _____.
a) Galena b) Zinc blende c) Epsom d) None of these
 - Primary reactions of Metal Nitrate gives _____.
a) Nitric acid b) Nascent Hydrogen c) NO d) NO₂
- II. Answer any 5 of the following: 5x3=15
- List the types of allotropes of sulphur.
 - Write a note on Ammonia leaching.

13. Complete the following reaction:



- Write the reason for the anomalous behaviour of N₂.
 - Write the reason for the action of CO as good reducing agent.
 - What are the difference between minerals & ores?
 - Write the uses of Zinc.
 - Give the basic requirement for vapour phase refining.
- III. Answer any 3 of the following: 3x5=15
- Write a note on Electrochemical principles of metallurgy.
 - a) Explain the following: i) gangue ii) slag (2)
b) Limitations of Ellingham diagram. (2)
c) Calcination (1)
 - Give a detailed note on:
i) Smelting (2)
ii) Reduction (2)
iii) Roasting (1)
 - Write the preparation for the following:
i) Ammonia (2½) ii) Oxygen (2½)
 - a) What happens when PCl₅ is heated? (3)
b) Valence shell electronic configuration of group 15 element (2)

I. Choose the correct answer: 5x1=5

1. If $|z|=1$, then the value of $\frac{1+z}{1+\bar{z}}$ is
 1) z 2) \bar{z} 3) $\frac{1}{z}$ 4) 1
2. If $|z - 2 + i| \leq 2$, then the greatest value of $|z|$ is _____
 1) $\sqrt{3}-2$ 2) $\sqrt{3}+2$ 3) $\sqrt{5}-2$ 4) $\sqrt{5}+2$
3. The area of the Δ formed by the complex number z , iz and $z+iz$ in the Argand's diagram is
 1) $|z|^2$ 2) $\frac{1}{2}|z|^2$ 3) $2|z|^2$ 4) $\frac{3}{2}|z|^2$
4. If $(1+i)(1+2i)(1+3i) \dots\dots\dots(1+ni) = x+iy$ then $2.5.10 \dots\dots\dots(1+n^2)$ is _____
 1) 1 2) i 3) x^2+y^2 4) $1+n^2$
5. If $z^n = \cos \frac{n\pi}{3} + i \sin \frac{n\pi}{3}$, then $z_1.z_2.z_3 \dots\dots\dots z_6$ is _____
 1) 1 2) -1 3) i 4) $-i$

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

(Q.No.10 is compulsory)

6. Which one of the points i , $-2+i$ and 3 is farthest from the origin?
7. Find z^{-1} , if $z=(2+3i)(1-i)$
8. Find multiplicative and additive inverse of $-3-4i$
9. Simplify: $\left(\frac{1+i}{1-i}\right)^3 - \left(\frac{1-i}{1+i}\right)^3$ in rectangular form.
10. If z_1 and z_2 are $1-i$, $-2+4i$ then find $\text{Im}\left(\frac{z_1 z_2}{\bar{z}_1}\right)$

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

(Q.No.15 is compulsory)

11. Show that the equation $z^2 = \bar{z}$ has four solutions.
12. Find the square root of $-8-6i$
13. Obtain cartesian from the locus of $z=x+iy$ in $[\text{Re}(iz)]^2 = 3$
14. If $(x_1+iy_1)(x_2+iy_2)(x_3+iy_3) \dots\dots\dots (x_n+iy_n) = a+ib$ show that
 i) $(x_1^2 + y_1^2)(x_2^2 + y_2^2)(x_3^2 + y_3^2) \dots\dots\dots (x_n^2 + y_n^2) = a^2 + b^2$
 ii) $\sum_{r=1}^n \tan^{-1} \left(\frac{y_r}{x_r}\right) = \tan^{-1} \left(\frac{b}{a}\right) + 2k\pi, k \in \mathbb{Z}$.

15. Simplify $\left(\frac{1 + \cos 2\theta + i \sin 2\theta}{1 + \cos 2\theta - i \sin 2\theta}\right)^{30}$

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

16. Find the quotient $\frac{2\left(\cos \frac{9\pi}{4} + i \sin \frac{9\pi}{4}\right)}{4\left(\cos \left(\frac{-3\pi}{2}\right) + i \sin \left(\frac{-3\pi}{2}\right)\right)}$ in rectangular form.
17. If $z=x+iy$, $\arg\left(\frac{z-1}{z+1}\right) = \frac{\pi}{2}$, show that $x^2+y^2=1$
18. Let z_1, z_2 and z_3 be complex numbers such that $|z_1|=|z_2|=|z_3|=r>0$ and $z_1 + z_2 + z_3 \neq 0$, prove that $\left|\frac{z_1 z_2 + z_2 z_3 + z_3 z_1}{z_1 + z_2 + z_3}\right| = r$
19. Find the fourth roots of unity.
20. Show that $\left(\frac{19-7i}{9+i}\right)^{12} + \left(\frac{20-5i}{7-6i}\right)^{12}$ is real.

EVERWIN MATRIC. HR. SEC. SCHOOL

22.08.19 Comprehensive Revision Programme -1 Marks: 30

STD: XII (H) AN தமிழ் Time: 1 Hr

I. சரியான விடையளி: 2×1=2

1. எங்கள் தந்தையர் நாடென்ற பேச்சினிலே - ஒரு சக்தி பிறக்குது மூச்சினிலே - என்னும் பாரதியின் பாடல் வெளிப்படுத்துவது

- அ) தனிக்குடும்ப முறை ஆ) விரிந்த குடும்ப முறை
இ) தாய்வழிக் சமூக முறை ஈ) தந்தை வழிச் சமூக முறை

2. 'தமிழர் மானிடவியல்' என்ற நூலை எழுதியவர்

- அ) பக்தவத்சல பாரதி ஆ) பாரதிதாசன்
இ) சுரதா ஈ) கவிமணி

II. புணர்ச்சி விதி தருக: 1×2=2

3. அருங்கானம் 4. மாசற்றார்

III. பகுபத உறுப்பிலக்கணம் தருக (ஒன்று மட்டும்): 1×2=2

5. தந்தனன் 6. போலிந்தான்

IV. வல்லின மெய்களை இட்டும் நீக்கியும் எழுதுக: 2×1=2

7. இராமனுக்கு பணிவிடைச் செய்ய இலக்குவனும் காட்டிற்கு புறப்பட்டான்.

8. ஒருவர் சொல்ல சொல்லக் கேட்டு எழுதி பழகுதலும் உதவும்.

2×1=2

V. பொருத்தமான வேற்றுமை உருபுகளைச் சேர்த்து முறையான தொடர் அமை:

9. சான்றோர் மதிப்பு கொடுத்து வாழ்வு உயரலாம்.

10. மாறன் பேச்சுத்திறன் யார் வெல்ல முடியும்.

VI. பின்வரும் வினாக்களுள் ஏதேனும் ஒன்றனுக்குக் குறுவிடை தருக:

2×2=4

11. ஞாலத்தின் பெரியது எது?

12. புக்கில், தன்மனை குறிப்பு வரைக.

13. நிலையாமை குறித்து சவரி உரைக்கும் கருத்து யாது?

VII. பின்வரும் வினாக்களுள் ஏதேனும் ஒன்றனுக்குச் சிறுவிடை தருக 1×4=4

14. பண்டைய விரிந்த குடும்பத்தின் தொடர்ச்சியே இன்றைய கூட்டுக் குடும்பம்

- விளக்கம் எழுதுக.

15. சினத்தால் வரும் கேட்டினைக் கூறுக.

VIII. பின்வரும் வினாக்களுள் ஏதேனும் ஒன்றனுக்கு நெடுவிடை தருக

1×6=6

16. செய்ந்நன்றியறிதலே அறம் என்பதை வாயுறை வாழ்த்தின் துணைக்கொண்டு நிறுவுக.

17. பண்பின் படிமமாகப் படைக்கப்பட்ட இராமன், பிற உயிர்களுடன் கொண்டிருந்த உறவு நிலையைப் பாடப்பகுதி வழி நிறுவுக.

IX. அடிபிறழாமல் எழுதுக: 1×4=4

18. 'குகனோடும் ஐவர் ஆனோம்' - எனத் தொடங்கும் கம்பராமாயணப் பாடலை எழுதுக.

X. திருக்குறள்: 2×1=2

19. மறத்தல்.....எனத் தொடங்கும் குறளை எழுதுக.

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

1. Nor can I see any nobility in the crying.
 a) loyalty b) capability c) accuracy d) decency
2. And very soon this trolley was commandeered.
 a) hijacked b) blocked c) driven d) pulled

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

3. The nurse and ward sister caught them up, scolded them and put them back to bed.
 a) chided b) complimented c) rebuked d) censured
4. It was a much better entertainment than anything anyone puts on.
 a) recreation b) enjoyment c) depression d) merriment

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

- i) Muscle + pain = _____
- ii) Skeleton + system = _____

Spot the errors in the following sentence:

6. My grandfather is well known in the village for his nobel deeds.
7. In spite of his poverty and setbacks he was able to launch his dream carrier.

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

8. Leaves wither during autumn _____
9. Don't commit this mistake again _____

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

10. The chief guest spoke a few words, did he?

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

“For his shrunk shank; and his big manly voice,
 Turning again toward childish treble pipes
 And whistles in his sound, Last scene of all.

11. What does the phrase ‘shrunk shank’ mean?
12. How is the voice of a man at this stage?
13. What stage of a man’s life is referred to in these lines?
 ‘Then the whining school-boy, with his satchel
 And shining morning face, creeping like snail
 Unwillingly to school.
14. Bring out the meaning of the word ‘whining’.
15. What are the characteristics of this stage?
16. How does the boy go to school?
17. Which figure of speech has been employed in the second line?

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

18. Is second childishness and mere oblivion;
 Sans teeth, sans eyes, sans teeth, sans everything
19. They have their exits and their entrances.
 And one man in his time plays many parts”

IV. Do as directed: 2x1=2

Change the following sentence into passive voice:

20. Who taught her Computer Science?

Change the following sentence into active voice.

21. Why were you scolded by your parents?

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

22. What was the profound lesson that Dr. Barnard learnt from the boys?
23. What thoughts troubled Dr. Christiaan Barnard as he neared the end of his career as a heart surgeon?

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”.

I. Choose the correct answer:

5x1=5

1. In order to increase the range of voltmeter n times the value of resistance to be connected in series with galvanometer

- a) $I=V$ b) $R=(n-1)G$ c) $R=nG$ d) $R=(n-1)S$

2. _____ principle is used in Bain bridge mass spectrometer.

- a) Magnetic Induction b) Electrostatic Induction
 c) Velcotiy selector d) Magnetic Lorentz force

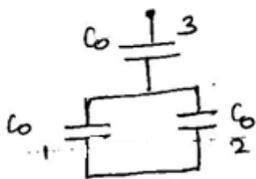
3. Torque acting on a moving coil is maximum when the coil is

- a) parallel to the magnetic field
 b) perpendicular to the magnetic field
 c) at an angle of 45° to the magnetic field
 d) at any position in a uniform magnetic field

4. The voltage sensitivity of a galvanometer can be increased by

- a) increasing the current
 b) increasing the couple per unit turns of the suspension wire
 c) increasing the number of turns of the coil
 d) increasing the magnetic induction

5. Calculate the resultant capacitances of the following combinations of capacitors



- a) $\frac{4}{3} C_0$ b) $\frac{2}{3} C_0$ c) $\frac{1}{3} C_0$ d) $\frac{2}{4} C_0$

II. Answer any 4 of the following:

4x2=8

6. Why the phosphor-bronze wire is used as the suspension wire in moving coil galvanometer?

7. A sample of Hcl gas is placed in a uniform electric field of magnitude $3 \times 10^4 \text{ Nc}^{-1}$. The dipole moment of each Hcl molecule is $3.4 \times 10^{-30} \text{ cm}$. Calculate the maximum torque experienced by each Hcl molecule.

8. Define one tesla.

9. Write a short note on the limitations of cyclotron.

10. Suppose a cyclotron is operated to accelerate protons with a magnetic field of strength 1T. Calculate the frequency in which the electric field between two Dees could be reversed.

III. Answer any 4 of the following:

4x3=12

11. Consider a point charge q placed at the origin and another point charge $-2q$ placed at a distance of 9m from the charge $+q$. Determine the point between the two charges at which electric potential is zero.

12. Define current sensitivity and voltage sensitivity of a moving coil galvanometer.

13. Explain the conversion of galvanometer into ammeter.

14. The resistance of a moving coil galvanometer is made twice its original value in order to increase current sensitivity by 50% will the voltage sensitivity change. If so by how much?

15. Explain the magnetic field due to a long current carrying solenoid.

IV. Answer any 3 of the following:

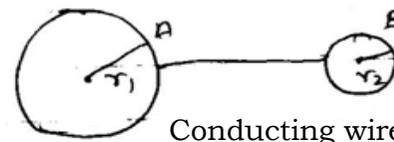
3x5=15

16. Derive an expression for force on a current carrying conductor placed in a magnetic field.

17. Explain the construction and working of cyclotron with diagram.

18. Derive an expression for magnetic field due to the current carrying wire of infinite length using ampere's law.

19. Two conducting spheres of radius $r_1=8\text{cm}$ and $r_2=2\text{cm}$ are separated by a distance much larger than 8cm and are connected by a thin conducting wire as shown in the figure. A total charge of $Q=+100\text{nC}$ is placed on one of the spheres, after a fraction of a second, the charge Q is redistributed and both the spheres attain electrostatic equilibrium.



- a) Calculate the charge and surface charge density on each sphere.
 b) Calculate the potential at the surface of each sphere.

- I. Choose the correct answer: 5x1=5
- With a wider span, there will be ____ hierarchical levels.
a. less b. multiple c. additional d. more
 - Scientific management is developed by _____.
a. Fayol b. Taylor c. Mayo d. Jacob
 - Which of the following is not a main function?
a. Decision making b. Planning c. Organising d. Staffing
 - Delegation of Authority is easily done with the help of _____.
a. MBM b. MBE c. MBO d. MBA
 - Money Market characteristics are _____.
i) Long term funds ii) Maturity period
iii) Existence of primary market
iv) Presence of a Central Bank
a. I and II b. II and III c. II and IV d. III and IV
- II. Answer any 4 of the following: 4x2=8
- What is HRM?
 - Who is called broker?
 - Explain the two oldest money markets.
 - Mention the recent development in stock exchange.
 - List out management tools.
 - State the meaning of authority.
- III. Answer any 4 of the following: 4x3=12
- Differentiate the management from administration.
 - Explain unity of command and unity of direction.
 - What are the limitations of stock exchange?
 - Explain Wall Street.
 - Difference between HR and HRM.
 - Explain Dalal Street.
- IV. Answer any 3 of the following: 3x5=15
- Describe the principles of scientific management.
 - Explain operating functions of HRM.
 - Describe the significance of HRM.
 - Explain the features of stock exchange.

- I. Choose the correct answer: 5x1=5
- Which of the following is not a main function?
a. staffing b. decision-making c. planning d. organising
 - State the order in which steps in employee selection process?
i) Interview ii) Physical examination
iii) Applications selection test
iv) Approval of Higher Authority
a. (ii) (iii) (iv) (i) b. (iii) (iv) (i) (ii) c. (iii) (i) (ii) (iv)
d. (i) (ii) (iii) (iv)
 - Risk in the money market is ____ risk.
a. high b. low c. low credit and market risk d. medium
 - The types of commercial bills are _____.
a. 30,90,180 b. 30,60,90 c. 90,180,270 d. 30,60,120
 - The process of placing the right man on right job is called _____.
a. transfer b. placement c. training d. promotion
- II. Answer any 4 of the following: 4x2=8
- Write short note about planning.
 - How do you co-ordinate your class room with peace?
 - What do you mean by Auctioning?
 - Define money market.
 - What is commercial bill market?
 - What is intelligence test?
- III. Answer any 4 of the following: 4x3=12
- List out the various selection interviews.
 - What is structured interview?
 - What are the instruments of money market?
 - Explain the types of Commercial Bills.
 - What are the main duties of a manager?
 - What are the features of CD?
- IV. Answer any 3 of the following: 3x5=15
- Explain personality test in detail.
 - Explain the Treasury Bills.
 - Explain main functions of management.
 - Explain the principles of placement.

I. Answer any five of the following: 5x2=10
 1. Chennai tennis club had match fund showing credit balance of Rs.24,000 on 1st April 2018. Receipts to the fund during the year was Rs.26,000. Match expenses incurred during the year was Rs.33,000. How these items will appear in the final accounts of the club for the year ended 31st March 2019?

2. How the following items will appear in the final accounts of a club for the year ending 31st March 2019?

Dr Cr
 Receipts and payments account for the year ended 31st March 2019

Receipts	Rs.	Rs.	Payments	Rs.
To subscription				
2017-2018	10,000			
2018-2019	50,000			
2019-2020	5,000			
		65000		

There are 200 members in the club each paying an annual subscription of Rs.400 per annum. Subscription still outstanding for the year 2017-2018 is Rs.2,000.

3. How the following items appear in the final accounts of Thoothukudi young pioneers association?
 There are one hundred members in the association each paying Rs.25 as annual subscription. By the end of the year 10 members had not paid their subscription but four members had paid for the next year in advance.

4. Compute income from subscription for the year 2018 from the following particulars relating to a club.

Particulars	01.01.2018 Rs.	31.12.2018 Rs.
Outstanding subscription	3,000	5,000
Subscription received in advance	4,000	7,000

Subscription received during the year 2018, Rs.45,000

5. From the following receipts and payments account and the additional information given below, calculate the amount of

subscription to be shown in Income and expenditure account for the year ending 31st December, 2018.

Receipts	Rs.	Rs.	Payments	Rs.
To subscription				
2017	28,000			
2018	1,72,000			
2019	12,000			
		2,12,000		

Additional information:

Subscription outstanding for the year 2018 is Rs.8,000

6. From the following details calculate the printing and stationary to be debited to Income and Expenditure Account for the year ending 31st March 2018 and also show how it will appear in the balance sheet as on 31st March, 2018.

Amount paid for stationery during 2017-2018 Rs.1,500
 Stock of stationary on 1st April 2017 Rs.300
 Stock of stationary 31st March 2018 Rs. 200

II. Answer any four of the following: 4x5=20

7. From the following information, prepare receipts and payments account of Cuddalore, Kabaddi Association for the year ended 31st March 2019.

Particulars	Rs.	Particulars	Rs.
Opening cash balance (1.4.2018)	11,000	Interest and bank charges	250
Bank overdraft balance (1.4.2018)	20,000	Miscellaneous income	350
Stationery purchased	5,200	Upkeep of ground	550
Travelling expenses	1,800	Grant from Government	12,000
Dividend received	3,000	Telephone charges paid	2,800
General expenses	500	Endowment fund receipts	10,000
Admission fees	4,000	Insurance premium paid	2,000
Courier charges	2,000	Electricity charges paid	5,000
Municipal taxes paid	3,000	Closing cash balance (31.03.2019)	1750

5. From the following receipts and payments account and the additional information given below, calculate the amount of

8. From the following receipts and payments account of Trichy recreation club, prepare income and expenditure account for the year ended 31.03.2018

Receipts	Rs.	Payments	Rs.
To opening balance		By Furniture purchased	10,000
Cash in hand	11,000	By Rent	2,800
To dividend received	27,600	By Secretary's honorarium	15,000
To sale of old newspaper	3,000	By Postage	1,700
To member's subscription	31,000	By general expenses	4,350
To locker rent	8,000	By printing and stationery	45,000
To interest on investment	1,250	By Audit fees	5,000
To sale of furniture (Book value Rs.4,400)	5,000	By closing balance cash in hand	3,000
	86,850		86,850

9. Form the following receipts and payments account and from the information given below of yercaud youth association, prepare income and expenditure account for the year ended 31st March 2019 and the balance sheet as on that date.

Dr Cr

Receipts and payments account for the year ended 31st March 2019

Receipts	Rs	Payments	Rs
To balance b/d		By salary	14,000
Cash in hand	9,600	By office expenses	7,200
To Government grants for purchase of books	10,000	By Books purchased	15,000
To subscription	24,800	By stationery purchased	1,800
To admission fees	2,000	By newspaper purchased	2,100
To prize fund receipts	6,000	By prizes awarded	5,000
To Bank interest	1,500	By balance c/d	
To sale of newspaper	1,100	Cash in hand	9,900
	55,000		55,000

Additional Information:

- Opening capital fund Rs.20,000
- Stock of books on 1.04.2018 Rs.9,200

3. Subscription due but no received rs.1,700

4. Stock of stationery on 01.04.2018 Rs.1200 and stock of stationery on 31.03.2019 Rs.2,000

10. Compute capital fund of Karux social club as on 31.03.2018

Particulars as on 31.03.2018	Rs.
Furniture	50,000
Buildings	40,000
Subscription outstanding for 2017-2018	10,000
Subscription received in advance for 2018-2019	5,000
Loan borrowed	10,000
Investments	20,000
Cash in hand	4,000
Cash at bank	6,000

11. From the following Receipts and payment account and from the information given below of Ramanathapuram sports club, prepare income and expenditure account for the year ended 31st Dec 2018 and the balance sheet as on that date.

Dr		31 st December 2018		Cr	
Receipts	Rs.	Rs.	Payments	Rs.	Rs.
To balance b/d			By rent		11,000
Cash in hand	5,000		By entertainment expenses		11,200
Cash at bank	10,000	15,000	By Furniture purchased		10,000
To subscription 2017	12,000		By sports materials purchased		13,000
2018	33,000		By Match expenses		12,000
2019	16,000	61,000	By investments made		28,000
To entrance fees		6,000	By balance c/d		
To general donations		7,000	Cash in hand	1,300	
To sale of old sports materials		1,000	Cash at bank	4,000	
To Miscellaneous receipts		5,000			5,300
		90,500			90,500

Additional informations:

- (i) Capital fund as on 1st January 2018 Rs.30,000
(ii) Opening stock of sports material Rs.3,000 and closing stock of sports material Rs.5,000

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

12. Following is the receipts and payments account of Neyveli science club for the year ended 31st Dec 2018.

Dr Receipts and payments account for the year ended 31st Dec 2018 Cr

Receipts	Rs.	Payments	Rs.	Rs.
To balance b/d		By balance b/d		
Cash in hand	2,400	Bank overdraft	1,000	
To subscription	8,700	By postage expenses	200	
To life membership fees	5,000	By science equipment purchased	10,000	
To exhibition fund receipts	7,000	By Laboratory expenses	2,400	
To sale of science equipments (Book value Rs.5,000)	6,000	By Secretary's honorarium	5,000	
To Miscellaneous income	500	By Audit fees	3,600	
		By general charges	1,800	
		By Exhibition expenses	5,000	
		By Balance c/d		
		Cash in hand	200	
		Cash at bank	400	600
	29,600			29,600

Additional information:

1. Opening capital fund Rs.6,400
2. Subscription includes Rs.600 for the year 2019
3. Science equipment as on 01.01.2018 Rs.5,000
4. Surplus on account of exhibition should be kept in reserve for new auditorium

Prepare income and expenditure account for the year ended 31st December 2018 and the balance sheet as on that date.

13. From the following receipts and payments account of Sivakasi pensioners recreation club, prepare income and expenditure account for the year ended 31st March 2018 and the balance sheet as on that date.

Dr Receipts and payments account for the year ended 31st March 2018 Cr

Receipts	Rs.	Rs.	Payments	Rs.
To Balance b/d			By rent and rates	18,000
Cash in hand	10,000		By electricity charges	17,000
Cash at bank	20,000		By furniture purchased	12,000
To subscription 2016-2017	5000	30,000	By Billiards table purchased	70,000
2017-2018	25000		By repairs and renewals	16,000
2018-2019	6000		By special dinner expense	4,000
		36,000	By sundry expenses	2,000
To legacies		40,000	By Balance c/d	
To rent from hall		14,000	Cash in hand	1,000
To lockers rent		5,000		
To collection for special dinner		12,000		
To balance c/d				
Bank overdraft		3000		
		1,40,000		1,40,000

Additional information:

1. The club had 300 members each paying Rs.100 as annual subscription.
2. The club had furniture Rs.10,000 on 1.4.2017
3. The subscription still due but not received for the year 2016-17 is Rs.1000.

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

1. Nor can I see any nobility in the crying.
 a) loyalty b) capability c) accuracy d) decency
2. And very soon this trolley was commandeered.
 a) hijacked b) blocked c) driven d) pulled

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

3. The nurse and ward sister caught them up, scolded them and put them back to bed.
 a) chided b) complimented c) rebuked d) censured
4. He had a malignant tumour of the bone.
 a) deadly b) fatal c) mortal d) benign

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

- i) sense + issue = _____
- ii) Skeleton + system = _____

Spot the errors in the following sentence:

6. The Boss had full confidence on his Manager for successful completion of the project.
7. In spite of his poverty and setbacks he was able to launch his dream carrier.

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

8. There is a pharmacy near that bus stand _____
9. Leaves wither during autumn _____

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

10. We needn't apply for a bank loan do we?

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

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

11. What is the soldier ready to do?
12. Explain 'bubble reputation'.
13. Mention the figure of speech in the fourth line.

“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”;

14. Whom does justice refer to?
15. Describe his appearance.
16. How does he behave with the people around him?
17. What does he do to show his wisdom?

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

18. Is second childishness and mere oblivion;
 Sans teeth, sans eyes, sans teeth, sans everything
19. They have their exits and their entrances.
 And one man in his time plays many parts”

IV. Do as directed: 2x1=2

Change the following sentence into passive voice:

20. Where had you kept the book?

Change the following sentence into active voice.

21. Our television is being repaired now.

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

23. Dr. Barnard couldn't find any nobility in suffering. Why?
24. What thoughts troubled Dr. Christiaan Barnard as he neared the end of his career as a heart surgeon?

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".

22.08.19 Comprehensive Revision Programme-1 Marks:40
Std:XII-I [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. Draw the Flow Chart of functioning of an economy Based on Activities.
13. State the importance of macro economics.
14. Distinguish between Capitalism & Globalism.
15. Write briefly about national income & welfare.
16. List out the uses of national income.
17. Write the precautions of Expenditure method.

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

18. Discuss the various methods of estimating the national income of a country.
19. Compare the features of capitalism and socialism.
20. Explain the Features of Mixed Economy.
21. Explain the demerits of Socialism and the features of Mixed Economy.

22.08.19 Comprehensive Revision Programme-2 Marks:40
Std:XII(G) [FN] Economics

Time:1.15 Hrs

I. Choose the correct answer: 5x1=5

1. J.B.Say is a _____ Economist.
 - a. Modern
 - b. Classical
 - c. Neo-classical
 - d. New
2. Keynes theory emphasized on _____ equilibrium
 - a. Very short run
 - b. short run
 - c. very long run
 - d. long run
3. The average propensity to consume is measured by _____.
 - a. C/Y
 - b. CXY
 - c. Y/C
 - d. C+Y
4. If the MPC is 0.5, the multiplier is _____.
 - a. 2
 - b. 1/2
 - c. 0.2
 - d. 2.0
5. Investment function is _____ relationship between rate of interest and investment.
 - a. Inverse
 - b. positive
 - c. Constant
 - d. equal

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

6. What are the components of aggregate supply?
7. Define Accelerator.
8. Give reasons for labour retrenchment at present situation.
9. Define average propensity to save.
10. Draw Aggregate supply curve and write its formula.
11. What are the factors affecting MEC?

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

12. Mention the differences between accelerator and multiplier Effect.
13. What do you mean by aggregate demand? Mention its components?
14. State the propositions of Keynes's psychological law of Consumption.
15. What is mean by structural unemployment?
16. Differentiate Autonomous and Induced Investment.
17. What are the classifications of Multiplier?

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

18. Write any five differences between Classism and Keynesianism.
19. What are the differences between MEC&MEI?
20. What are the Assumptions of the say's law of market?
21. Narrate the equilibrium between ADF&ASF with diagram.