I. Answer any 4 of the following: 4x5=20
1. Explain GSDP in TamilNadu.
2. Describe the performance of TamilNadu economy in health.
3. Describe development of textile industry in TamilNadu.
4. What are the renewable sources of power in TamilNadu?
5. Explain the prospect for development of tourism.

II. Answer any 1 in detail: 1x10=10
6. Explain the public transport system in TamilNadu.
7. Describe the qualitative aspects of population.

I. Choose the correct answer: 5x1=5

1. If $A=\begin{bmatrix} A & 1 \\ -1 & -\lambda \end{bmatrix}$ then what value of λ^2, $A^2=0$?
   a) 0   b) ± 1 c) -1   d) 1

2. The value of x, for which the matrix $A=\begin{bmatrix} e^{x-2} & e^{7+x} \\ e^{2+x} & e^{2x+3} \end{bmatrix}$ is singular is _____.
   a) 9   b) 8   c) 7   d) 6

3. If the square of the matrix $\begin{bmatrix} \alpha & \beta \\ \gamma & -\alpha \end{bmatrix}$ is the unit matrix of order 2, then α, β and γ should satisfy the relation.
   a) $1+ \alpha^2+ \beta\gamma = 0$ b) $1+ \alpha^2- \beta\gamma =0$ c) $1- \alpha^2- \beta\gamma =0$
   d) $1- \alpha^2+ \beta\gamma =0$

4. If $a\neq b$, b, c satisfy $\begin{vmatrix} a & 2b & 2c \\ 3 & b & c \\ 4 & a & b \end{vmatrix}=0$ then abc=_____
   a) a+b+c   b) 0   c) b^3 d) ab+bc

5. If $\Delta=\begin{vmatrix} a & b & c \\ x & y & z \\ p & q & r \end{vmatrix}$, then $\begin{vmatrix} ka & kb & kc \\ kx & ky & kz \\ kp & kq & kr \end{vmatrix}$ is _____.
   a) Δ b) $k\Delta$ c) $3k\Delta$ d) $k^3\Delta$

II. Answer the following: 5x5=25

6. Find the value of the product $\begin{vmatrix} \log_3 64 & \log_4 3 \\ \log_3 8 & \log_4 9 \end{vmatrix} \times \begin{vmatrix} \log_2 3 & \log_8 3 \\ \log_3 4 & \log_3 4 \end{vmatrix}$

7. i) Determine the value of 'a', so that matrix is singular
   $B=\begin{bmatrix} a-1 & 2 & 3 \\ 3 & 1 & 2 \\ 1 & -2 & 4 \end{bmatrix}$
   ii) Find the area of triangle whose vertices are (7,2) (2,3) (4,7).

8. If (K,2) (2,4) (3,2) are vertices of the triangle of area of square units then determine the value of K.

9. Prove that $\begin{vmatrix} 1 & x & x \\ x & 1 & x \\ x & x & 1 \end{vmatrix}^2 = \begin{vmatrix} 1-2x^2 & -x^2 & -x^2 \\ -x^2 & -1 & x^2-2x \\ -x^2 & x^2-2x & -1 \end{vmatrix}$

10. Show that $\begin{vmatrix} 2bc-a^2 & c^2 & b^2 \\ c^2 & 2ca-b^2 & a^2 \\ b^2 & a^2 & 2ab-c^2 \end{vmatrix} = \begin{vmatrix} a & b & c \\ b & c & a \\ c & a & b \end{vmatrix}^2$

EVERWIN MATRIC HR. SEC. SCHOOL
22.11.2019   TT   Time: 45 Mins
STD: XI (H,I)   Accountancy   Marks: 30

I. Choose the correct answer: 5x1=5

1. Carriage inwards will be shown _____.
     a) in the trading account   b) in the profit and loss account
     c) on the liabilities side   d) on the assets side

2. Closing stock is an item of _____.
     a) Fixed asset   b) Current asset   c) Fictitious asset
     d) Intangible asset

3. Goodwill is classified as _____.
     a) A current asset   b) A liquid asset   c) A tangible asset
     d) An intangible asset

4. Bank overdraft should be shown _____.
     a) In the trading account   b) Profit and loss account
     c) On the liabilities side   d) On the asset side

5. Drawings appearing in the trial balance is _____.
     a) Added to the purchases   b) Subtracted from the purchases
     c) Added to the capital   d) Subtracted from the capital

II. Answer the following: 3x5=15

6. Prepare trading account in the books of Mr.Sanjay for the year ended 31st December 2017.

Particulars	Rs.
Opening stock	570
Sales	26,200
Sales Return	60
Purchase	15,800
Purchase return	90
Closing stock	860

7. From the following details, prepare profit and loss account.

Particulars	Rs.
Gross profit	50,000
Office rent	10,000
Depreciation on office assets	8,000
Discount allowed	12,000
Advertisement	4,000
Audit fees	1,000
Interest received	2,000
Discount received	3,000
Carriage outwards	2,500
Insurance on office building	3,500
General Expenses	3,000
Freight inwards	1,000

8. From the following, prepare balance sheet in the books of Bragathish as on 31st December, 2017.

Particulars	Rs.
Capital	80,000
Debtors	12,800
Drawings	8,800
Cash in hand	20,000
Net profit	4,800
Plant	43,200

III. Answer the following: 1x10=10

9. From the trial balance given by Saif, prepare final accounts for the year ended 31st March, 2018.

Debit Balance	Rs.	Credit balance	Rs.
Land	40,000	Purchase return	15,000
Opening stock	40,000	Bills payable	7,000
Machinery	66,000	Capital	1,50,000
Purchase	1,30,000	Sales	2,20,000
Wages	35,000	Creditors	60,000
Interest paid	13,000		
Cash	2,300		
Debtors	80,000		
Bills receivable	15,000		
Office rent paid	12,700		
Furniture	3,000		
Drawings	5,000		
Sales return	10,000		
	4,52,000		4,52,000