

I. Do the following:

1. Let $A = \{1, 2, 3\}$, $B = \{3, 4\}$ and $C = \{4, 5, 6\}$

Find i) $A \cap (B \cap C)$ ii) $(A \cap B) \cup (A \cap C)$.

2. Let $A = \{1, 2\}$, $B = \{1, 2, 3, 4\}$, $C = \{5, 6\}$ and $D = \{5, 6, 7, 8\}$. Verify that.

i) $A \cap (B \cap C) = (A \cap B) \cap (A \cap C)$. ii) $A \cap C$ is a subset of $B \cap D$.

3. Let $A = \{1, 2\}$, $B = \{3, 4\}$, Write $A \times B$. How many subsets will $A \times B$ have?

List them.

4. The heights and weights of the students are given below.

	Height	Weight
Mean	162.6cm	52.36 kg
Variance	127.69 cm ²	23. 1361 kg ²

Can you say the weight show greater variation than the heights?

5. The following is record of goals scored by team A football session:

No. of goals scored	0	1	2	3	4
No.of matches	1	9	7	5	3

For the team B, mean number of goals scored per match was 2 with a standard deviation 1.25 goals. Find which team may be considered more consistent?

EVERWIN VIDHYASHRAM

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STD:XI (Con)

TT -Accountancy

Marks:25

1. From the following information prepare trading and profit and loss account of M/s Indian sports house for the year ending March 31, 2017. (15)

Account Title	Amount Rs.	Account Title	Amount Rs.
Drawings	20,000	Capital	2,00,000
Sundry debtors	80,000	Return outwards	2,000
Bad debts	1,000	Bank overdraft	12,000
Trade Expenses	2,400	Provision for bad debts	4,000
Printing and Stationery	2,000	Sundry creditors	60,000
Rent Rates and Taxes	5,000	Bills payable	15,000
Feright	4,000	Sales	2,76,000
Return inwards	7,000		
Opening stock	25,000		
Purchases	1,80,000		
Furniture and Fixture	20,000		
Plant and Machinery	1,00,000		
Bills receivable	14,000		
Wages	10,000		
Cash in hand	6,000		
Discount allowed	2,000		
Investments	40,000		
Motor car	51,000		
	<u>5,69,400</u>		<u>5,69,400</u>

Adjustments:

1. Closing stock was Rs. 45,000
2. Provision for doubtful debts is to be maintained @ 2% on debtors.
3. Depreciation charged on: furniture and fixture @ 5%, plant and Machinery @ 6% and motor car @ 10%.
4. A Machine of Rs. 30,000 was purchased on October 01, 2016.
5. The manager is entitle to a commission of @ 10% of the net profit after charging such commission.

2. Prepare the trading and profit and loss account and a balance sheet of M/s Shine Ltd. from the following particulars. (10)

Account Title	Amount Rs.	Account Title	Amount Rs.
Sundry Debtors	1,00,000	Bills payable	85, 550
Bad debts	3,000	Sundry creditors	25,000
Trade expenses	2,500	Provision for bad debts	1,500
Printing and Stationary	5,000	Return outwards	4,500
Rent, Rates and Taxes	3,450	Capital	2,50,000
Freight	2,250	Discount received	3,500
Sales return	6,000	Interest received	11,260
Motor car	25,000	Sales	1,00,000
Opening stock	75,550		
Furniture and Fixture	15,500		
Purchases	75,000		
Drawings	13,560		
Investment	65,500		
Cash in hand	36,000		
Cash in bank	53,000		
	<u>4,81,310</u>		<u>4,81,310</u>

Adjustments:

1. Closing stock was valued Rs. 35,000
2. Depreciation charged on furniture and fixture @ 5%
3. Further bad debts Rs. 1,000. Make a provision for bad debts @ 5% on sundry debtors.
4. Depreciation charged on motor car @ 10%
5. Interest on drawings 2%
6. Rent, rates and taxes was outstanding Rs. 200.
7. Discount on debtors 2%.