## Question 1 [25 marks]

$0:(-10)+(-7)=-17$
1: $(-11)+(-1)=-12$
2: $(-16)+14=-2$
3: $3-8=-5$
4: $7+4=11$
5: $(-1)-12=-13$
6: $11+(-5)=6$
7: $6-(-3)=9$
8: $17-(-14)=31$
9: $20-(-8)=28$
10: $2-9=-7$
11: $(-13)+(-18)=-31$
12: $1-(-4)=5$
13: $11+14=25$
14: $1+4=5$
15: $20-3=17$
16: $2+3=5$
17: $(-17)+(-11)=-28$
18: $(-17)-(-3)=-14$
19: $12-14=-2$
20: $(-6)+2=-4$
21: $(-19)-(-14)=-5$
22: $(-1)+(-16)=-17$
23: $2+(-15)=-13$
24: $(-3)-18=-21$
25: $7-8=-1$

## Question 2

[25 marks]
$0:(-8)+(-9)=-17$
1: $15+5=20$
2: $(-4)+(-12)=-16$
3: $18-9=9$
4: $(-18)+(-11)=-29$
5: $(-14)+2=-12$
6: $14-(-16)=30$
7: $14-(-20)=34$
8: $11+19=30$
9: $(-15)-8=-23$
10: $0+17=17$
11: $13-(-14)=27$
12: $(-6)+(-14)=-20$
13: $(-15)-5=-20$
14: $15-(-2)=17$
15: $4+19=23$
16: $(-18)-10=-28$
17: $(-17)-(-14)=-3$
18: $17-(-4)=21$
19: $10-4=6$
20: $(-6)-(-19)=13$
21: $15-(-18)=33$
22: $15-(-10)=25$
23: $17+(-17)=0$
24: $(-9)+18=9$
25: $(-14)+8=-6$

## Question 3 [25 marks]

$0:(-8)-(-9)=1$
1: $1+(-8)=-7$
2: $3-7=-4$
3: $11+14=25$
4: $(-3)+(-3)=-6$
5: $(-1)+(-13)=-14$
6: $(-8)-17=-25$
7: $(-6)-12=-18$
8: $17+(-18)=-1$
9: $1-(-20)=21$
10: $9+9=18$
11: $3-9=-6$
12: $19+17=36$
13: $9+(-5)=4$
14: $(-3)-6=-9$
15: $14-(-2)=16$
16: $10-(-1)=11$
17: $(-18)-3=-21$
18: $0+(-8)=-8$
19: $2-(-12)=14$
20: $(-18)-(-14)=-4$
21: $(-7)+(-15)=-22$
22: $(-6)+3=-3$
23: $9-(-18)=27$
24: $17-(-7)=24$
25: $13-(-18)=31$

## Question 4 <br> [25 marks]

$0:(-18)+3=-15$
1: $10-(-17)=27$
2: $19+10=29$
3: $(-16)-(-11)=-5$
4: $(-3)-2=-5$
5: $(-1)-20=-21$
6: $20-(-18)=38$
7: $0-8=-8$
8: $10+17=27$
9: $(-18)-(-10)=-8$
10: $(-15)+18=3$
11: $(-17)+(-11)=-28$
12: $19-(-2)=21$
13: $(-19)-14=-33$
14: $6+(-4)=2$
15: $0+9=9$
16: $(-19)+(-12)=-31$
17: $(-13)+9=-4$
18: $17+11=28$
19: $(-6)+19=13$
20: $(-7)-(-3)=-4$
21: $(-7)+16=9$
22: $1+4=5$
23: $17-12=5$
24: $(-12)-8=-20$
25: $(-1)+(-14)=-15$

## Question 5 [25 marks]

$0: 6+(-12)=-6$
1: $6-18=-12$
2: $(-20)-20=-40$
3: $4+16=20$
4: $(-11)+10=-1$
5: $(-13)-14=-27$
6: $16+1=17$
7: $(-19)-2=-21$
8: $(-16)-15=-31$
9: $4-(-20)=24$
10: $1-(-14)=15$
11: $1+(-19)=-18$
12: $(-6)+(-7)=-13$
13: $(-8)-5=-13$
14: $9-14=-5$
15: $16-9=7$
16: $10+(-1)=9$
17: $(-11)+(-9)=-20$
18: $1+3=4$
19: $5+(-18)=-13$
20: $(-9)+(-5)=-14$
21: $8-19=-11$
22: $20-7=13$
23: $6+19=25$
24: $(-19)+(-18)=-37$
25: $4+20=24$

## Question 6 [25 marks]

0: $14-20=-6$
1: $(-18)-0=-18$
2: $7+(-10)=-3$
3: $(-8)+7=-1$
4: $8-(-1)=9$
5: $10+0=10$
6: $14+0=14$
7: $(-19)-4=-23$
$8:(-15)-(-14)=-1$
9: $(-3)-12=-15$
10: $12-14=-2$
11: $(-10)-(-3)=-7$
12: $1+6=7$
13: $14+(-1)=13$
14: $12-(-11)=23$
15: $16+(-3)=13$
16: $(-8)+20=12$
17: $18-4=14$
18: $18-8=10$
19: $(-6)+(-6)=-12$
20: $(-18)-18=-36$
21: $(-14)-(-5)=-9$
22: $(-3)+15=12$
23: $18+(-13)=5$
24: $(-12)-(-18)=6$
25: $5-17=-12$

## Question 7 [25 marks]

$0:(-4)-(-19)=15$
1: $11-16=-5$
2: $8+4=12$
3: $20-(-2)=22$
4: $17-(-9)=26$
5: $19-(-16)=35$
6: $11-8=3$
7: $(-16)-(-12)=-4$
8: $(-8)-(-6)=-2$
9: $11-(-19)=30$
10: $(-16)+1=-15$
11: $(-17)-19=-36$
12: $(-6)+12=6$
13: $6+(-12)=-6$
14: $8+(-12)=-4$
15: $(-9)-10=-19$
16: $(-13)-7=-20$
17: $19+(-15)=4$
18: $(-15)-(-9)=-6$
19: $2+11=13$
20: $3-12=-9$
21: $13-(-5)=18$
22: $7+(-13)=-6$
23: $11-(-6)=17$
24: $(-11)-1=-12$
25: $19-(-10)=29$

## Question 8 [25 marks]

0: $18-1=17$
1: $0+(-9)=-9$
2: $(-15)-(-9)=-6$
3: $20-(-7)=27$
4: $(-12)+5=-7$
5: $17+(-19)=-2$
6: $5-(-7)=12$
7: $(-16)+(-4)=-20$
8: $(-9)+(-8)=-17$
9: $20-(-14)=34$
10: $4-(-11)=15$
11: $(-3)-11=-14$
12: $6+14=20$
13: $(-7)-8=-15$
14: $(-6)-(-6)=0$
15: $(-16)+17=1$
16: $(-5)-8=-13$
17: $(-5)-6=-11$
18: $(-3)-11=-14$
19: $15+(-13)=2$
20: $6-1=5$
21: $9-(-15)=24$
22: $(-19)-(-1)=-18$
23: $(-5)+2=-3$
24: $1-(-20)=21$
25: $18+(-14)=4$

## Question 9 [25 marks]

$0:(-3)+18=15$
1: $(-7)+8=1$
2: $10-15=-5$
3: $3+14=17$
4: $13+1=14$
5: $4+19=23$
6: $5-(-20)=25$
7: $2-12=-10$
8: $(-6)-3=-9$
9: $(-6)-4=-10$
10: $8-16=-8$
11: $10-9=1$
12: $5+(-20)=-15$
13: $(-13)+(-7)=-20$
14: $(-6)+1=-5$
15: $6-(-7)=13$
16: $(-19)-11=-30$
17: $(-20)-(-19)=-1$
18: $(-16)-(-19)=3$
19: $(-2)-(-9)=7$
20: $(-2)-15=-17$
21: $0+(-8)=-8$
22: $18-9=9$
23: $(-18)-4=-22$
24: $1+(-16)=-15$
25: $16+(-18)=-2$

Question 10
[25 marks]
0: $3-0=3$
1: $(-16)+6=-10$
2: $7+3=10$
3: $11+7=18$
4: $18-8=10$
5: $2+(-9)=-7$
6: $15-(-5)=20$
7: $(-15)+(-19)=-34$
8: $(-13)+10=-3$
9: $(-12)+(-1)=-13$
10: $5+15=20$
11: $(-20)+5=-15$
12: $(-2)-7=-9$
13: $6-5=1$
14: $3+1=4$
15: $(-6)+(-11)=-17$
16: $(-8)-(-17)=9$
17: $(-6)-13=-19$
18: $(-2)+(-11)=-13$
19: $20+2=22$
20: $(-2)+9=7$
21: $(-18)+15=-3$
22: $6-4=2$
23: $2+(-4)=-2$
24: $20-17=3$
25: $(-10)+(-4)=-14$

## Question 11 [25 marks]

0: $(-9)+15=6$
1: $17+(-13)=4$
2: $(-3)-12=-15$
$3:(-11)+15=4$
4: $20+(-19)=1$
5: $(-17)+3=-14$
6: $(-11)+(-3)=-14$
7: $(-9)+(-2)=-11$
8: $(-3)+(-14)=-17$
9: $17+(-8)=9$
10: $(-10)-(-15)=5$
11: $(-3)+(-4)=-7$
12: $15+(-18)=-3$
13: $(-16)-(-14)=-2$
14: $(-5)-3=-8$
15: $4+(-12)=-8$
16: $(-17)+(-1)=-18$
17: $12+8=20$
18: $14-(-4)=18$
19: $2-(-15)=17$
20: $(-7)-18=-25$
21: $9+6=15$
22: $18-9=9$
23: $(-16)+10=-6$
24: $8+(-9)=-1$
25: $(-7)-17=-24$
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## Question 12

$0:(-20)-2=-22$
1: $16-(-12)=28$
2: $(-3)+1=-2$
3: $5+(-3)=2$
4: $13+(-18)=-5$
$5:(-18)+(-20)=-38$
6: $(-2)-(-2)=0$
7: $0+(-8)=-8$
$8:(-11)-(-16)=5$
9: $2-15=-13$
10: $(-11)+(-12)=-23$
11: $(-5)+11=6$
12: $19-(-1)=20$
13: $(-19)+(-15)=-34$
14: $8-13=-5$
15: $7-(-13)=20$
16: $(-16)+11=-5$
17: $5-(-11)=16$
18: $(-1)+18=17$
19: $17-1=16$
20: $(-12)+13=1$
21: $(-19)+18=-1$
22: $(-2)-(-8)=6$
23: $(-3)-5=-8$
24: $18+15=33$
25: $2-3=-1$

## Question 13 [25 marks]

$0:(-15)+8-10=-17$
1: $10+(-18)-(-3)=-5$
2: $3-(-17)-0=20$
3: $(-2)+3+8=9$
4: $6+(-15)-(-6)=-3$
5: $14-(-4)+(-5)=13$
6: $12-4+(-11)=-3$
7: $1-2+(-9)=-10$
$8: 20+11+(-2)=29$
9: $(-8)+10+15=17$
10: $5+(-10)-(-6)=1$
11: $(-4)+0-(-17)=13$
12: $(-1)-(-20)-(-13)=32$
13: $(-10)+(-20)+(-3)=-33$
14: $(-18)+(-3)+(-13)=-34$
15: $(-8)+19+(-15)=-4$
16: $(-1)-5-14=-20$
17: $7+(-12)-9=-14$
18: $20+(-10)+(-2)=8$
19: $9+9+(-16)=2$
20: $(-10)-16-(-3)=-23$
21: $(-7)-0+17=10$
22: $6+3-17=-8$
23: $11+8+(-17)=2$
24: $17+20-(-11)=48$
25: $(-11)-11+(-18)=-40$

## Question 14 [25 marks]

$0:(-11)+19+(-2)=6$
1: $(-10)-2+(-5)=-17$
2: $(-4)+8+(-12)=-8$
3: $(-18)-6-(-8)=-16$
4: $12-16+(-11)=-15$
5: $12+(-3)-(-20)=29$
6: $(-15)-(-8)+2=-5$
7: $6-(-19)-19=6$
$8:(-12)+2-(-12)=2$
9: $(-10)+(-16)+(-19)=-45$
10: $16+(-3)+(-18)=-5$
11: $6-(-18)+(-2)=22$
12: $15-(-7)+(-7)=15$
13: $2-16-(-16)=2$
14: $6+5-14=-3$
15: $(-7)-13+(-11)=-31$
16: $(-18)+(-15)-(-8)=-25$
17: $18-(-1)-10=9$
18: $(-17)-5-(-17)=-5$
19: $6-14+(-9)=-17$
20: $(-2)-13+7=-8$
21: $17+(-13)+(-12)=-8$
22: $(-14)-(-1)+(-15)=-28$
23: $(-20)+(-2)+19=-3$
24: $20-(-16)+(-17)=19$
25: $(-5)-(-17)+(-13)=-1$

## Question 15 [25 marks]

0: $20+(-8)-3=9$
1: $(-16)+3+8=-5$
2: $(-15)+1+10=-4$
3: $15+8+(-4)=19$
4: $6-13-(-10)=3$
5: $(-12)+0+12=0$
6: $9-(-16)-7=18$
7: $(-1)-2-0=-3$
$8:(-11)-12+(-19)=-42$
9: $17-(-6)-9=14$
10: $(-14)-(-5)-9=-18$
11: $13+12+0=25$
12: $(-5)-(-19)+(-14)=0$
13: $10-11+6=5$
14: $(-2)-(-1)+(-15)=-16$
15: $(-9)+5-19=-23$
16: $(-2)+(-20)-1=-23$
17: $(-19)-(-14)-(-14)=9$
18: $1-3+10=8$
19: $(-9)-(-12)+(-8)=-5$
20: $10-1+(-16)=-7$
21: $5-(-5)+20=30$
22: $1+7-(-7)=15$
23: $15+(-4)+(-14)=-3$
24: $(-9)+13+(-6)=-2$
$25: 2+9+(-3)=8$

## Question 16 <br> [25 marks]

$0:(-8)-18-17=-43$
1: $16-(-5)+7=28$
2: $14+5+10=29$
3: $0+19-5=14$
4: $2+(-11)-16=-25$
5: $(-6)-(-7)-(-20)=21$
$6:(-18)-(-14)+9=5$
$7:(-11)+(-13)+(-3)=-27$
$8: 20-(-1)+18=39$
9: $6-10-14=-18$
10: $14-(-5)-(-4)=23$
11: $(-6)-7+10=-3$
12: $0-(-11)+19=30$
13: $7-2-(-10)=15$
14: $9-(-2)+9=20$
15: $2-1+(-10)=-9$
16: $4-20-10=-26$
17: $16-(-7)-(-13)=36$
18: $(-11)-(-3)+(-20)=-28$
19: $(-17)-11-2=-30$
20: $(-18)-(-3)-(-5)=-10$
21: $(-15)+(-7)+(-2)=-24$
22: $(-14)+17+(-17)=-14$
23: $7-15-10=-18$
24: $(-11)-(-9)+(-19)=-21$
25: $(-2)-2+(-3)=-7$

## Question 17 [25 marks]

$0:(-9)+(-19)-16=-44$
1: $2-20-2=-20$
2: $14+(-1)+11=24$
3: $(-4)-5-14=-23$
4: $12-(-4)-18=-2$
5: $8+12+19=39$
6: $12-(-11)-6=17$
7: $20+7-18=9$
8: $(-17)+18+19=20$
9: $(-2)-7-(-7)=-2$
10: $(-14)+(-1)+10=-5$
11: $(-10)+(-18)-12=-40$
12: $2-4+11=9$
13: $0-18-2=-20$
14: $20-(-16)-12=24$
15: $(-15)+16-11=-10$
16: $13+(-17)+(-14)=-18$
17: $(-17)-(-17)+(-14)=-14$
18: $(-5)+2+14=11$
19: $3+(-2)+14=15$
20: $(-3)+13+(-17)=-7$
21: $(-4)-9+14=1$
22: $(-11)+7-6=-10$
23: $10+(-18)+(-15)=-23$
24: $1+3-4=0$
25: $5-(-12)+(-3)=14$

## Question 18

[25 marks]
$0:(-1)-8-(-7)=-2$
1: $17+2+(-20)=-1$
2: $7+(-15)-(-17)=9$
3: $(-19)-17-(-9)=-27$
4: $7-(-13)+(-18)=2$
$5: 8+12-(-13)=33$
6: $15+5-(-17)=37$
7: $17+13-4=26$
8: $17+(-1)-14=2$
9: $(-14)+(-17)+5=-26$
10: $(-5)+18+(-10)=3$
11: $(-17)+(-17)-9=-43$
12: $13-4-(-12)=21$
13: $16+(-6)-(-8)=18$
14: $(-5)-(-2)-19=-22$
15: $(-16)-(-3)+(-8)=-21$
16: $11-(-13)-20=4$
17: $5-(-18)+(-6)=17$
18: $15-(-18)+(-9)=24$
19: $2+14+15=31$
20: $2+(-13)+(-7)=-18$
21: $7-(-9)-0=16$
22: $1+(-10)+(-10)=-19$
23: $(-8)+10-14=-12$
24: $(-16)+16+16=16$
25: $(-17)+(-17)-7=-41$

## Question 19 [25 marks]

$0: 15+(-13)+19=21$
1: $12-2-14=-4$
2: $(-6)+(-3)-(-8)=-1$
3: $(-16)+(-18)+(-10)=-44$
4: $3+19-(-5)=27$
5: $13-1-11=1$
6: $17+6-(-9)=32$
7: $6+(-6)+15=15$
$8:(-7)-4+12=1$
9: $1+1-(-17)=19$
10: $(-4)-(-3)+12=11$
11: $(-6)-(-2)-20=-24$
12: $14+(-10)-(-17)=21$
13: $(-19)-(-19)-(-17)=17$
14: $(-19)-(-16)-11=-14$
15: $20+(-14)+(-7)=-1$
16: $12+(-5)+(-17)=-10$
17: $(-6)-8+(-16)=-30$
18: $5-(-5)+(-20)=-10$
19: $5+12+(-20)=-3$
20: $(-14)+20+10=16$
21: $14+8-15=7$
22: $2-13+10=-1$
23: $17-12-1=4$
24: $7+(-11)-(-2)=-2$
$25:(-3)-3+(-15)=-21$

## Question 20 [25 marks]

$0:(-5)-13+17=-1$
1: $8+(-17)+(-13)=-22$
2: $18-16+7=9$
$3:(-6)+18+(-13)=-1$
4: $(-16)+(-2)+10=-8$
5: $16+10-(-15)=41$
6: $12+(-6)-(-11)=17$
7: $17+(-9)-4=4$
$8:(-7)+1-16=-22$
9: $(-13)+13+(-4)=-4$
10: $11-(-12)+1=24$
11: $(-6)+(-1)+16=9$
12: $(-15)-(-15)-7=-7$
13: $(-2)+0-1=-3$
14: $6-3-(-16)=19$
15: $18-(-1)+3=22$
16: $14-(-16)+0=30$
17: $(-11)+(-12)+0=-23$
18: $15+16+(-13)=18$
19: $7-(-3)+3=13$
20: $(-20)+(-9)-(-13)=-16$
21: $(-14)-(-5)+4=-5$
22: $16-1-(-6)=21$
23: $13-(-9)-(-12)=34$
24: $(-12)+(-6)-(-10)=-8$
25: $12-6+2=8$

## Question 21 [25 marks]

0: $(-9)-6-0=-15$
1: $10-19-(-13)=4$
2: $16-(-15)+8=39$
3: $20-18-(-5)=7$
4: $(-11)+14+6=9$
5: $19+(-3)-8=8$
$6:(-7)-(-20)+14=27$
7: $15-15-(-11)=11$
8: $(-15)+8-(-17)=10$
9: $(-1)+18-4=13$
10: $(-15)-(-1)+(-1)=-15$
11: $(-4)+(-16)+(-2)=-22$
12: $10+14-(-19)=43$
13: $(-7)-(-9)+15=17$
14: $(-2)-5+(-6)=-13$
15: $6+20+(-7)=19$
16: $12+(-11)+(-8)=-7$
17: $(-15)+3+(-6)=-18$
18: $12+20-(-4)=36$
19: $9+(-16)+(-10)=-17$
20: $(-8)-4-(-13)=1$
21: $(-1)+5-(-8)=12$
22: $13-5-0=8$
23: $10+(-10)-(-13)=13$
24: $18+(-17)+(-17)=-16$
25: $(-9)-10+(-1)=-20$

## Question 22 <br> [25 marks]

$0:(-13)+14+(-18)=-17$
1: $(-5)-7-(-3)=-9$
2: $4-(-3)-(-14)=21$
3: $(-18)+(-6)+20=-4$
4: $12-14-4=-6$
5: $(-13)+8+(-11)=-16$
6: $18-(-14)+18=50$
7: $(-12)-(-4)+(-19)=-27$
8: $(-9)-(-1)+(-16)=-24$
9: $19-6-(-4)=17$
10: $(-5)-(-12)-(-17)=24$
11: $19-4+3=18$
12: $(-5)+10+4=9$
13: $(-9)-(-13)+10=14$
14: $13+(-2)-(-17)=28$
15: $(-15)+5+15=5$
16: $(-6)+(-17)-19=-42$
17: $10+17+(-3)=24$
18: $(-1)+(-2)-15=-18$
19: $(-14)+(-10)-(-12)=-12$
20: $(-12)+4-(-1)=-7$
21: $(-19)+15+(-16)=-20$
22: $(-13)+11+19=17$
23: $14+(-10)-(-5)=9$
24: $4+(-16)+16=4$
25: $4-6-(-4)=2$

## Question 23 [25 marks]

0: $6+(-10)-0+(-18)=-22$
1: $(-16)+10+(-7)+14=1$
2: $13-9+(-8)-(-9)=5$
3: $(-6)-7+(-6)-18=-37$
4: $18-(-2)+(-11)-1=8$
5: $18+11-0+14=43$
$6:(-12)+3+(-15)+(-15)=-39$
7: $10-14+1+(-2)=-5$
8: $(-19)-3+(-4)+(-18)=-44$
9: $(-18)-0-3+(-12)=-33$
10: $(-4)+(-16)-18+16=-22$
11: $3-9+(-16)-(-15)=-7$
12: $1-10-(-13)-(-9)=13$
13: $16+(-16)-(-12)+(-3)=9$
14: $9-11+(-1)-(-11)=8$
15: $5-(-1)+(-19)+13=0$
16: $(-2)+(-20)+13-18=-27$
17: $7+10+0+1=18$
18: $(-6)-5+20-(-18)=27$
19: $(-5)-7+(-3)+(-13)=-28$
20: $(-6)+13-(-10)+(-3)=14$
21: $(-12)+9-12-(-13)=-2$
22: $10-1-19+20=10$
23: $9-1+(-9)-13=-14$
24: $12+(-19)+(-1)-3=-11$
25: $(-13)+(-10)+(-5)+(-14)=-42$

Question 24 [25 marks]
$0:(-3)+(-7)-(-5)-13=-18$
1: $(-14)+4+8-13=-15$
2: $14-9-14-(-13)=4$
3: $10+(-2)+(-15)-(-5)=-2$
4: $(-12)-(-3)+(-13)+2=-20$
5: $(-8)-10+(-5)-17=-40$
$6:(-19)+6+(-11)-(-13)=-11$
7: $(-19)-17+(-3)-(-17)=-22$
8: $11-17-11-(-19)=2$
9: $(-1)+(-6)-1-(-15)=7$
10: $(-10)+(-7)+(-2)-(-9)=-10$
11: $(-15)-(-12)-0-(-11)=8$
12: $(-15)-17-(-6)+(-3)=-29$
13: $(-10)+(-9)-19-(-7)=-31$
14: $(-5)+12-14+6=-1$
15: $(-10)+(-3)+19+17=23$
16: $(-12)-10+(-11)+16=-17$
17: $(-1)-12+(-1)+(-11)=-25$
18: $(-17)+(-3)+(-2)+2=-20$
19: $(-7)+1-(-2)+(-14)=-18$
20: $0-8-(-13)+(-3)=2$
21: $16-(-7)-(-7)+(-6)=24$
22: $9-(-5)+18+(-10)=22$
23: $3+(-12)-16+9=-16$
24: $(-19)-(-9)-(-14)-(-14)=18$
25: $9-(-18)-15-9=3$

## Question 25 [25 marks]

0: $9-(-16)+(-6)+0=19$
1: $(-12)+(-16)-(-5)+1=-22$
2: $(-11)-5+1+16=1$
3: $9-(-17)-20+(-17)=-11$
4: $16-(-11)+(-20)+18=25$
5: $(-16)-(-2)+(-11)+(-8)=-33$
6: $19+(-15)+(-6)-(-17)=15$
7: $1-3-16+(-19)=-37$
8: $1+3+(-9)-0=-5$
9: $(-3)+9+(-2)+16=20$
10: $(-19)+(-7)-(-10)+(-5)=-21$
11: $16-(-6)+(-10)+(-18)=-6$
12: $5-8-(-6)-(-11)=14$
13: $(-19)-(-2)-14-2=-33$
14: $10-(-8)+(-19)-20=-21$
15: $6+(-11)-13+(-15)=-33$
16: $(-8)-(-4)+4-6=-6$
17: $(-19)+17+(-19)+14=-7$
18: $(-9)-4-(-4)-14=-23$
19: $11+(-6)-2+20=23$
20: $(-17)+(-15)-14-(-16)=-30$
21: $11+(-14)+(-7)+12=2$
22: $(-7)-12+11+1=-7$
23: $18+16+4-1=37$
24: $12-(-14)-(-4)+4=34$
25: $9+(-11)-6-6=-14$

Question 26 [25 marks]
$0:(-13)-14-(-12)-(-8)=-7$
1: $(-1)-(-5)+0-11=-7$
2: $5+(-16)+1-15=-25$
3: $(-20)+2+2-(-14)=-2$
4: $(-4)-0+20-(-16)=32$
5: $(-12)-(-10)+8-18=-12$
6: $0-(-19)+19-(-1)=39$
$7: 3+12+0+2=17$
8: $(-11)+12+19-(-6)=26$
9: $11+18+15+11=55$
10: $18-(-14)-10+18=40$
11: $(-13)-(-18)+4+16=25$
12: $17+6+5-1=27$
13: $(-6)-(-13)+16-(-1)=24$
14: $4+9-15-1=-3$
15: $11+(-9)+11-(-3)=16$
16: $(-3)+11+20+(-2)=26$
17: $(-11)+(-3)+(-8)-9=-31$
18: $17-7+(-10)-15=-15$
19: $17-15-(-11)-(-2)=15$
20: $(-19)+11+15-(-13)=20$
21: $3+3+(-19)+15=2$
22: $14+4-(-16)-(-7)=41$
23: $(-9)+16-2-(-8)=13$
24: $(-12)-6+5-(-14)=1$
25: $14-(-16)+15+12=57$

## Question 27 [25 marks]

0: $17-(-19)-12-(-1)=25$
1: $5+14-20-2=-3$
2: $(-16)+13-2-12=-17$
3: $(-4)-20-(-18)+(-11)=-17$
4: $(-19)+12+13+(-13)=-7$
5: $10+(-15)-(-10)-(-5)=10$
6: $12-(-9)-(-5)+(-7)=19$
7: $19+(-9)-(-17)+18=45$
8: $(-1)-(-12)-(-8)-(-17)=36$
9: $(-10)-(-15)-8+1=-2$
10: $(-12)+7-18+(-9)=-32$
11: $(-18)-18+(-13)+12=-37$
12: $11-(-3)+(-7)+13=20$
13: $7-(-6)-20+(-9)=-16$
14: $(-8)-4+(-15)-6=-33$
15: $(-5)-6+(-19)+(-1)=-31$
16: $18-2+(-3)+(-3)=10$
17: $12+10+(-7)-(-7)=22$
18: $17+18-4-(-17)=48$
19: $(-18)+(-10)+0-(-12)=-16$
20: $3+16-(-14)-(-2)=35$
21: $7-2+16-6=15$
22: $4+1-(-13)-(-14)=32$
23: $5+(-11)-4-(-13)=3$
24: $6+17+(-20)+(-18)=-15$
25: $(-19)+19+15-14=1$

Question 28 [25 marks]
$0:(-17)-15+4+(-1)=-29$
1: $(-14)-(-5)-(-9)-0=0$
2: $13-(-18)+9-(-10)=50$
3: $(-20)-4+(-19)-(-5)=-38$
4: $(-15)-(-3)-8+(-13)=-33$
5: $(-17)+13+16+8=20$
6: $(-5)-(-15)+(-9)-(-3)=4$
7: $(-6)+2-(-8)-2=2$
8: $(-7)+(-12)+20-2=-1$
9: $(-5)-20+15-(-13)=3$
10: $(-11)+16-(-3)-10=-2$
11: $(-9)+(-12)+(-13)-8=-42$
12: $3-(-4)-(-12)+4=23$
13: $11-(-20)+18+(-14)=35$
14: $(-11)+(-13)-1-(-8)=-17$
15: $0-(-1)-0+(-4)=-3$
16: $20+(-18)-14+6=-6$
17: $14-3+(-4)-8=-1$
18: $8+15-16+14=21$
19: $14+19-(-4)+0=37$
20: $(-17)-(-16)+0-(-2)=1$
21: $1+13+(-19)-(-10)=5$
22: $(-2)+5+(-15)+(-15)=-27$
23: $1+13-(-9)+(-1)=22$
24: $12-(-18)-20-13=-3$
$25:(-15)+11-(-15)+9=20$
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## Question 29 [25 marks]

$0:(-12)+11-9-(-17)=7$
1: $(-18)-(-7)-10+(-5)=-26$
2: $11+(-4)-(-20)+5=32$
3: $(-2)-(-4)+17-20=-1$
4: $(-9)-(-12)-(-10)-(-14)=27$
5: $3+(-18)+(-6)-3=-24$
6: $12-6+6-(-4)=16$
7: $(-3)+(-3)-(-17)+20=31$
8: $(-13)+1-(-18)+15=21$
9: $1-(-7)-19+(-17)=-28$
10: $17+(-3)+(-18)+(-4)=-8$
11: $2+7-(-13)+15=37$
12: $5-15-(-1)-15=-24$
13: $19+1-(-1)-17=4$
14: $(-17)-8-0-(-4)=-21$
15: $3+(-12)+1-(-16)=8$
16: $(-14)-9+(-14)-10=-47$
17: $13+16+(-9)+18=38$
18: $9+(-5)-(-19)+14=37$
19: $(-7)-(-11)-5+1=0$
20: $12-(-14)-13+15=28$
21: $(-14)+(-19)-(-14)-15=-34$
22: $3-(-12)-8-(-20)=27$
23: $14+11-(-5)-6=24$
24: $9+10+(-2)-(-18)=35$
25: $(-1)-(-3)+(-2)+5=5$

Question 30 [25 marks]
$0:(-19)+11+18-6=4$
1: $2+(-8)-(-1)-17=-22$
2: $17-20+(-15)+10=-8$
3: $(-11)-8+(-8)-15=-42$
4: $16+12+(-7)+2=23$
5: $12-20+(-6)+(-10)=-24$
$6:(-19)+15-(-17)+(-9)=4$
7: $14-(-18)-(-9)-(-13)=54$
8: $(-20)+11+16-(-5)=12$
9: $19-(-12)+4-4=31$
10: $16+(-18)+7+2=7$
11: $(-14)-2-12-20=-48$
12: $10-(-14)-(-3)-9=18$
13: $(-13)+16+12-20=-5$
14: $17+16-6-(-8)=35$
15: $(-12)+(-5)-(-15)-8=-10$
16: $(-2)+18+(-15)+14=15$
17: $5+(-20)-12+(-7)=-34$
18: $19+(-11)+3+11=22$
19: $10-12-(-20)+(-1)=17$
20: $(-10)-7-(-11)+14=8$
21: $8-11+19-17=-1$
22: $3+13-6+12=22$
23: $8+(-15)-0-19=-26$
24: $(-13)-(-17)-6+(-1)=-3$
25: $6-(-7)-(-10)+(-4)=19$

## Question 31 [25 marks]

$0: 13-18+18-(-13)=26$
1: $12-(-20)+18-(-18)=68$
2: $(-13)+8+14+(-14)=-5$
3: $20+4+19-8=35$
4: $(-7)-(-6)+9-(-16)=24$
5: $20+(-8)-20+(-6)=-14$
6: $10+0-18-13=-21$
7: $7+(-17)+13+12=15$
8: $(-16)+(-3)+(-10)-16=-45$
9: $(-14)+16-(-12)+3=17$
10: $13+5+2-(-4)=24$
11: $(-14)-(-1)-(-3)+6=-4$
12: $(-8)+(-1)+(-11)-(-14)=-6$
13: $(-20)-(-7)-(-14)-1=0$
14: $12-20+13-9=-4$
15: $(-15)-(-1)-(-11)-(-13)=10$
16: $(-3)+(-6)+15-19=-13$
17: $(-12)-(-10)+(-17)+14=-5$
18: $20-8-16-(-6)=2$
19: $18-(-16)-0+16=50$
20: $(-2)+10-(-12)+(-20)=0$
21: $19-(-17)-0+18=54$
22: $(-15)-(-2)+(-19)-(-2)=-30$
23: $17+0+20-4=33$
24: $3-6-(-10)+2=9$
25: $(-7)-4+15+(-12)=-8$

## Question 32 [25 marks]

0: $6-(-16)-(-10)-(-14)=46$
1: $17-11+(-2)-(-14)=18$
2: $(-5)+(-13)+4+(-15)=-29$
$3:(-5)-(-1)+1-(-17)=14$
4: $14-(-20)-19-(-13)=28$
5: $20+(-11)-19+13=3$
6: $0+(-15)+(-16)+(-5)=-36$
7: $16+(-4)-16+(-20)=-24$
8: $12-2+0-16=-6$
$9:(-15)+14-13-(-12)=-2$
10: $0-(-6)-(-9)+19=34$
11: $6-0-(-12)+15=33$
12: $17-14-(-3)-(-2)=8$
13: $(-14)-16+12-3=-21$
14: $8+6+(-15)-14=-15$
15: $13-5+9-13=4$
16: $12+(-12)+(-19)-17=-36$
17: $(-3)-(-10)-(-18)+10=35$
18: $(-13)+(-7)+(-9)-(-16)=-13$
19: $9-(-17)-(-11)-14=23$
20: $(-18)+(-15)+19+(-9)=-23$
21: $(-15)-2-(-18)-5=-4$
22: $(-19)+(-12)+(-6)-(-15)=-22$
23: $(-7)+6-(-13)-(-12)=24$
24: $(-12)-(-7)-5-15=-25$
25: $(-1)+(-15)-(-20)-11=-7$

