



Code:	FO2SM931053	Total Marks:	100
Subject:	Strategic Financial Management	Marks Obtained :	89.5

Subject : Maths

Number of Answer Books used : Main + 1+1 additional sheets

For use by ICAI only

931053



20 NOV 2020



Q.No.	To be ticked (✓) by the Examiners against the Questions answered	Marks Awarded (to be filled by Examiner)					Total
		a	b	c	d	e	
1	✓						
2	✓						
3	✓						
4	✓						
5	✓						
6	✓						
7							
8							
9							
10							
Total							

Use only Blue / Black Ball Point Pen to write and shade the circles.

AVOID RED PEN.

Write the marks in the boxes before shading the respective circles.

Total Marks awarded

Total Marks awarded (in words)

Examiner's Signature



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INSTRUCTIONS TO THE CANDIDATE

Answers are not to be written on this page

- 1. Answers should be written in figures and words in the allotted space at the right hand corner of the answer book/s and graph paper.
- 2. Roll number should be written in the box in numbers and darken the appropriate circles of the OMR form provided in the right hand corner of the cover page with Black / Blue ball point pen.
- 3. Fill particulars such as name of Examination, Group No., Paper No. and subject at the appropriate space at the left hand upper corner.
- 4. Remove the Bar Code sticker of the particular paper from the Attendance sheet and affix the same on the box provided in the right hand corner of the cover page.
- 5. Since a machine will read the Roll no., please check and ensure that Roll number written in numbers, words and circles darkened are correct. In case any candidate fills this information wrongly, Institute will not take any responsibility for rectifying the mistake.
- 6. The answers should be written neatly and legibly.
- 7. The answer to each question must be commenced on a fresh page and question number prominently written at the top of each answer. Alternatively, the question number should be distinctly written in the margin.
- 8. The answer to each question in all parts should be fully completed in one page, or in a consecutive set of pages, before the next question is taken up.
- 9. Writing of Roll number in place/s other than the space provided for the purpose or writing distinguishing mark, symbols like "OM", "Sri", "Jesus", "786", etc., will tantamount to adoption of "unfair means".
- 10. Before submission of answer book to the invigilator after completion of the exam, take care to score out (X) blank pages, if any, that you might have left.



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16 03 03

3a

(Q3)
(a)

i) Calculation of NAV as on 1st August 2019

Company	No of Share	Price per share	Total value
Q	2000	200	400,000
R	30,000	312.40	9372000
S	40,000	180.60	7224000
T	60,000	505.10	30306000
Total value of NAV			4,73,02,000
No of shares			6,00,000
NAV as on 1 st Aug			78.836
			78.84

3aStep1

ii) No. of units of NIF issued to the Town as on 1st August
Amount given by Town 30,00,000
NAV as on 1st Aug (1) 78.84
No of units issued by MF 38051.75

3aStep2



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04

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DO NOT WRITE ANYTHING HERE

1 3aStep3

Calculation of Revised Position of Fund After
Terror Charge on 1st Aug 2019

Particulars	Amount	Value
Current	2000	4000000
R	38000	11871200
S	40000	7224000
T	60000	30306000
Bank Balance (WN1)	500800	500800
Total Assets Value		50302000

NAV = 638051.75

NAV Revised = 78-8368

WN1: (Left Bank Balance)

Particulars	Amount	Value
Total Amount given by Terror	301001000	
Less: Paid to Bank	80000000	2499200
Current Bank Balance		500800



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iii) Calculation of NAV: Ason and Aqwer 2015

Shareholding No	MF	Total Value
Q	2000	205
R	3800	360
S	40000	191.55
T	60000	503.90
Total		30234000

Box Buyout (unit)

3aStep4

2

500800

Total NAV

52486800

NAV per unit

638051.75

3aStep5

NAV: Ason

2nd Ag

82-261

Final Answer

Point	NAV
1	78-84
2	78-8368
3	82-261

DO NOT WRITE ANYTHING HERE



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06

3b (a3)
(b)

Working

Calculation of inflation effect on Revenue b/cost

Revenue Year	Sal. Bal.	Rev.	Revenue After Inflation effect
1	1-12	800,000	896,000
2	1-2432	900,000	1118880
3	1-3695	10,00,000	1367500
4	1-4905	11,00,000	1639550
5	1-6048	12,00,000	1931760

3bStep1

Cost Year	Sal. Bal.	Cost	Cost After Inflation
1	1-14	300,000	342000
2	1-2882	400,000	515280
3	1-4428	500,000	721400
4	1-6015	600,000	960900
5	1-7616	600,000	1056960

3bStep2



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ANSWER

Common or View of the Project by ABC Ltd.

Particulars/year	1	2	3	4	5
Revenue	896000	1118850	1367500	1629550	1931760
Cost (-)	342000	515280	721400	960900	1056960
Profit	300000	300000	300000	300000	300000

3bStep4

Pay	254000	303600	346100	378650	574800
Let	101600	121400	138000	151400	229920
T	152400	182160	207600	227150	344880

3bStep3

Net Profit	300000	300000	300000	300000	300000
Flow	452400	482160	507600	527150	4880

3bStep5

Profit	0.893	0.797	0.712	0.636	0.567
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3bStep6

Profit	403993-2	384281-74	361453-92	335292-24	365644-76
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3bStep7

Total Profit (Cash flow)				1850668-44	
Let	1500000				

3bStep8

Answer	AD the NPV is positive				
Should be	Accepted				

3bStep9

NPV	350668-44				
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3bStep10

Answer	AD the NPV is positive				
Should be	Accepted				



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Q5 (15.5) (0.5) (a)

Answer

i) expected Return under different Option

ii) 50% for in. 244

RF = WARI + WBVB
= 0.50 x 19 + 0.50 x 23
= 21.5

iii) 75% in. 277

RF = 0.75 x 19 + 0.25 x 23
= 20.5

iv) 25% in. 754

RF = 0.25 x 19 + 0.75 x 23
= 22.5

vi) 60% in. 4017

RF = 0.60 x 19 + 0.40 x 23
= 20.6



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09

DO NOT WRITE ANYTHING HERE

DO NOT WRITE ANYTHING HERE

DO NOT WRITE ANYTHING HERE

5aStep5

Q1 35 in 6814

RR: $0.35 \times 19 + 0.65 \times 23$

Summary of answer under diff. of 100

Offen

1 211.

2 201.

3 227.

4 2061.

5 23-604.

ii] Current of Risk associated with Porten,

Risk = $\sqrt{(wab)^2 + (wbb)^2 + 2xwabwb}$

Risk Curve Under Diff. of 100

ii. 50% in each

$6 = \sqrt{(0.50 \times 19)^2 + (0.50 \times 23)^2 + 2 \times 0.50 \times 19 \times 23}$

$= \sqrt{49 + 81 + 20 \times 16}$

$= \sqrt{150 + 16}$

$= \sqrt{166}$

6 >



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ii) 75412 25112

Sum: $(0.75 \times 14)^2 + (0.25 \times 18)^2 - 2 \times 0.75 \times 0.25 \times 14 \times 18 \times 0.16$

$= \sqrt{110.25 + 20.25 + 15.12}$

$6 = \sqrt{145.62}$

$6 = \sqrt{12.06}$

iii) 25112 25112

Sum: $(0.25 \times 14)^2 + (0.75 \times 18)^2 + 2 \times 0.25 \times 0.75 \times 14 \times 18 \times 0.16$

$= \sqrt{12.25 + 182.25 + 15.12}$

$= \sqrt{209.62}$

$6 = \sqrt{14.48}$

iv) 60112 40112

Sum: $(0.60 \times 14)^2 + (0.40 \times 18)^2 + 2 \times 0.60 \times 0.40 \times 14 \times 18 \times 0.16$

$= \sqrt{70.56 + 51.84 + 14.352}$

$6 = \sqrt{114.75}$

$6 = \sqrt{11.90}$

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11

VB 35r inc 6r/100

$6 \approx \sqrt{(0.03 \times 14)^2 + (0.06 \times 18)^2} + 2 \times 0.35 \times 0.65$
 $\times 14 \times 18 \times 0.14$

$\approx \sqrt{240.1 + 136.89} + 18.345$

$6 \approx \sqrt{179.24}$
 $6 \approx \sqrt{13.38}$

Summary of move (eq. 3)

Option	Return	Risk
1 0.00x, 0.00y	21 %	12.25
2 0.05x, 0.05y	20 %	12.06
3 0.25x, 0.05y	22.5 %	14.48
4 0.60x, 0.40y	20.6 %	11.90
5 0.30x, 0.60y	21.60 %	13.38

Answer 1111

From the point of view of Risk Option 4 is best

From the point of view of Return Option 3 is best

From the point of view of Risk and Return Option 4 is best

5a Step 6

1.5

5a Step 7

1.5



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[illegible]



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13

5bStep7 312e

1000

1000

1000

Total Profit or Loss

(16500)

3500

11500

Entire or entire

11 At a price of 100 both can be put off
Can be else so not our now stop
Premium Pongone.

DO NOT WRITE ANYTHING HERE

DO NOT WRITE ANYTHING HERE

DO NOT WRITE ANYTHING HERE



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[illegible]



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15

i) Calculation of Swap Ratio

Swap Ratio	1. No. of Shares (A)	2. Value of Shares (B)	3. No. of Shares (C)	4. Value of Shares (D)	5. Swap Ratio (C/B) x A
EPJ	0.45	4	16	16/4 x 0.45	1.8
B.V.	0.20	30	28.2	28.2/30 x 0.20	0.188
MF	0.35	40	80	80/40 x 0.35	0.7

Swap Ratio = 2.688

Total Shares to be given = 15.104 x 2.688 = 40.32

Promoter Share = 60%

∴ Promoter holdg of equity = 24.192

Calculation of promoter holdg after promotion

Taken No. of Share after Acq. (20 + 40.32) = 60.32

Promoter holdg of equity = 8.65

(20 x 43.2771)

Promoter holdg of equity is 24.192

∴ Total Promoter holdg is 32.842 (approx)

% of promoter holdg = $\frac{32.842}{60.32} \times 100 = 54.45$



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16

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ii) EPS of efficient firm acquisition of
Reedy Ltd.

EPS before merger 80 Lakhs
Reedy 240

Total earning After Acquisition = 320 Lakhs
No. of shares held by firm 60-32

Acquisition

6aStep6

EPS After Acquisition = $\frac{320}{60-32}$ = 5-3050

DO NOT WRITE ANYTHING HERE

iii) affected market price per share.

EPS After merger & PE Ratio

= $\frac{5-3050}{110}$ = 53-05

6aStep7

Market Capitalization = $\frac{PE \times Total No. of Shares}{}$

= $53-05 \times 60-32$

= 3199-976

No. of shares = 3200 Lakhs

6aStep8

DO NOT WRITE ANYTHING HERE



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17

iv) Calculation of Free float market Capitalization
Total market Capitalization 3200 Lakhs
Total Free float Shareholding 45-55
(100 - 54-45)
Percent.

Free float market Capitalization 1457-60

Summarized Answer

i) Stock Return for Promoter hold	3-688 54-45%
ii. Free float Return	5-3050
iii) If an investor buys shares on the market	53-05 3200 Lakhs
iv) Free float market Capitalization	1457-60

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6b

18

(Q. 6)
(b)

Calculation of effective Rate of interest

$$\text{Rate of interest} = \frac{\text{FV} - \text{Issued Price} \times \frac{12}{3}}{\text{Issued Price}}$$

$$= \frac{500000 - 487750 \times \frac{12}{3}}{487750}$$

$$= 10.046 \%$$

6bStep1

Effective Rate of Rate =

$$= \left(1 + \frac{0.10046}{4} \right)^4 - 1$$

$$\text{Effective Rate} = \frac{1.1043 - 1}{4} = 10.43 \%$$

6bStep2

Cost of fund

Effective Rate

$$\text{Effective Rate} = 10.43$$

$$\text{Rate of fund} = 0.60$$

$$\text{Rate of fund} = 0.55$$

$$\text{Rate of fund} = 0.80$$

$$\text{Total Cost of fund} = 12.38$$

$$\text{Effective Rate of fund} = 10.43 \%$$

$$\text{Total Cost of fund} = 12.38 \%$$



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Q4 (15)  19

4a (8) (Q4)
(Q.1)

Credit side 730 Lacs
Debit side 90 Lacs
Van O-D PM 6 Lacs

Calculation of Net Profit or Loss

1. Total Receipts By Factor 60 Lacs
730/365 X 30
Receipt under normal 90 Lacs
Debit in Receipt 30 Lacs

Calculation of Net Profit or Loss

	Amount
Debit on Van O-D PM on 30 X 6 Lacs	1-8
Debit in Debit side 30 X 6 Lacs	1-60
Debit in Debit side 30 X 6 Lacs	5-60
Debit in Debit side 30 X 6 Lacs	9 Lacs

Adjusted by Factor 60 X 80 = 48
Total on above 48 X 7.5% = 3-6
Less: Debit on 48 X 6% = 2-88
Net Profit 0-72



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20

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4aStep3 Commission on (600000 x 1.10%) 8.03

4aStep5 Total (900000 x 0.72) (B) 8.75

Net Savings 0.2510%

4aStep6 As B reported a factor company will save in cost of 0.2510% a year.

4aStep7 Factorid should be taken by Mr (Company)

DO NOT WRITE ANYTHING HERE

DO NOT WRITE ANYTHING HERE



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21

(Q4)
(b)

Least wbr Crge by wdr on at per lastmcy of 14
is 32, 22, 12

" It will be the accor Red Crge.

Wdr: Calcula of Detrctm

	Grby	per	by	Tadomcy 3fr
1	800	200	600	70
2	600	150	450	52-50
3	450	112.5	337.5	39-37.5

Legl Rn k by 840h

	Legl Rn	Tadomcy	Pv
1	32(1-0.35) + 70	0.893	
2	20(1-0.21) + 52-50	0.757	
3	22(1-0.31) + 39-37.5	0.712	

Vne outa 22 =

Total out of ncy

1	1-741352	+ 62.51	
2	1-013120	+ 41-8425	- (800)
3	0-46282	+ 28-035	

Net 3-21762 + 132-3275 - 800 = 0

3-21762 = 667-612

22 = 207-477



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Year	2019-2020	2020-2021	2021-2022	Legal Year
1	3X	3X207-477	622-431	2019-2020
2	2X	2X207-477	434-954	2020-2021
3	1X	207-477	207-477	2021-2022

4bStep5

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Q1

20

1a

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23

(Q1)
(Q1)

MV OF Share AS per walt mod is
 $MV = D + \frac{Roi}{Kc} (E - D)$

MV on date
D = Divided part
ROI = Return on Investment 17%
Kc = Cost of Capital 13%





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(i) 30% Payable Rs. 2000, D = 600

$$PV = 600 + \frac{-17}{-13} (2000 - 600)$$

1aStep2

$$PV \approx 18698.22 / \text{Share}$$

$$MV \text{ (comp)} = 150000 \times 18698.22$$

$$= 2804730000$$

(ii) 60% Payable Rs. 2000, D = 1200

$$PV = 1200 + \frac{-17}{-13} (2000 - 1200)$$

1aStep3

$$PV \approx 17278.10 / \text{Share}$$

$$MV \text{ (comp)} = 150000 \times 17278.10$$

$$= 2591715000$$

(iii) 90% Payable Rs. 2000, D = 1800

$$PV = 1800 + \frac{-17}{-13} (2000 - 1800)$$

$$= 1800 + \frac{-17}{-13} (2000 - 1800)$$



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1aStep4

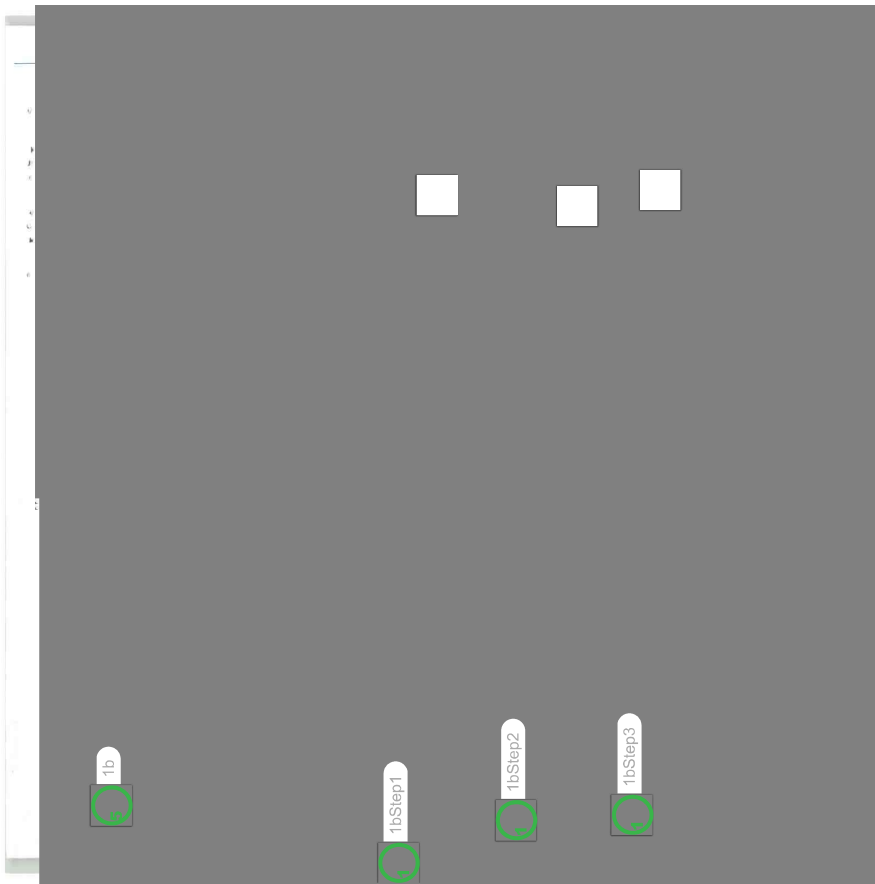
1aStep5

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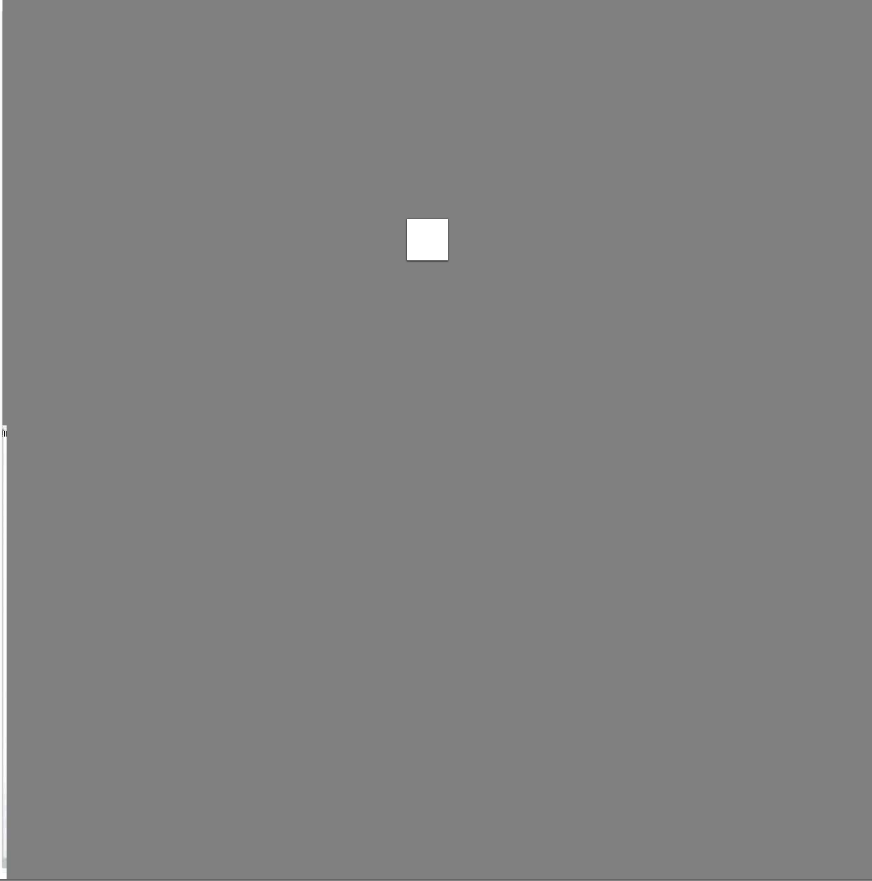




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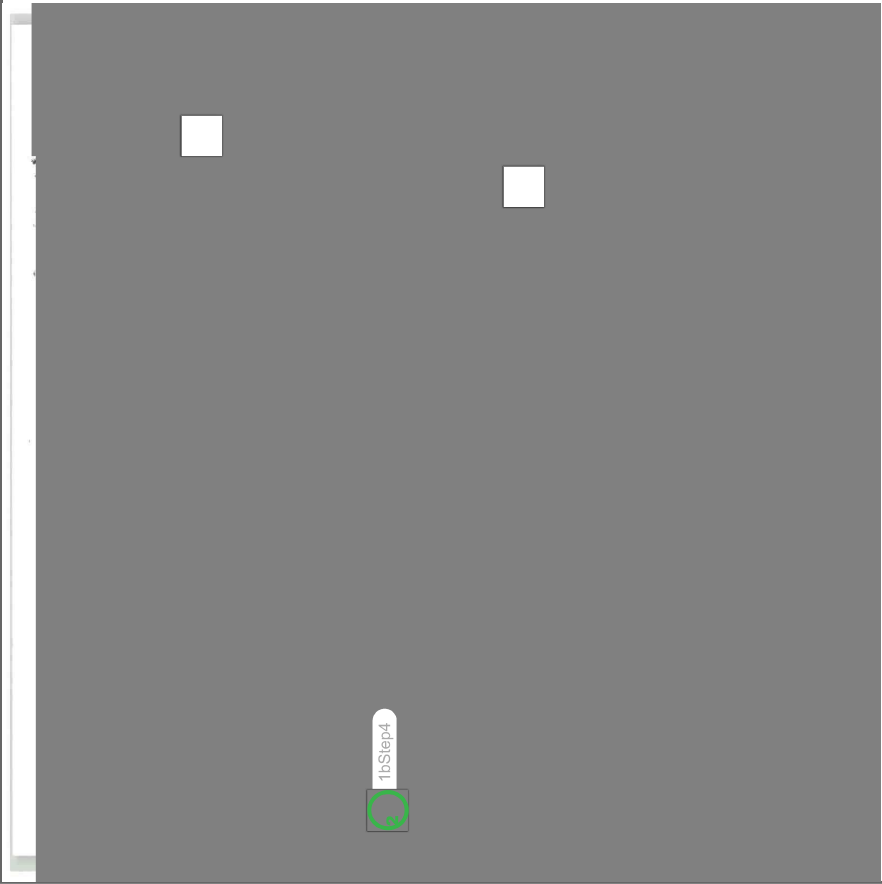
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1bStep4



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1c

5

1cStep1

3

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1cStep2

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51d

31dStep2

21dStep1

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Q2

2a

Q

2aStep1

2aStep2

2aStep3

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2aStep4

2aStep5

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2b



2bStep1



2bStep2



2bStep3



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2bStep4 0		
2bStep5 0		
2bStep6 0		



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Awarded Marks: 89.5				Max Marks:100	
NA	Not Attempted	O	Optional	M	Marked
Q1_Compulsary (Score: 20/20)					
Question No	Awarded Marks	Maximum Marks	Status		
Q1	20	20	M		
1a	5	5	M		
1b	5	5	M		
1c	5	5	M		
1d	5	5	M		
Q2_Q7 (Score: 69.5/80)					
Question No	Awarded Marks	Maximum Marks	Status		
Q2	7	16	M		
2a	7	8	M		
2b	0	8	M		
Q3	16	16	M		
3a	8	8	M		
3b	8	8	M		
Q4	15	16	M		
4a	8	8	M		
4b	7	8	M		
Q5	15.5	16	M		
5a	7.5	8	M		
5b	8	8	M		
Q6	16	16	M		
6a	10	10	M		
6b	6	6	M		
Q7	0	16	O		
7a	0	4	O		

