Contents

		Page No.
Foreword		
List of Select Abbreviations		i-iii
Overview		1
Chapter I : Macro-Financial Risks		3
Global Backdrop		3
Macroeconomic Developments and O	Outlook	3
Capital Flows and Exchange Rate Vol		6
Risk-off Trades and Asset Market Co		6
Commodity Market Spillovers		7
Domestic Macro-Financial Developments		8
Recent Macroeconomic Developmen	ts	8
Corporate Sector		10
Loan Moratorium and Bank Credit		11
Developments in Non-bank Financia	l Intermediation	15
Housing Market		19
Systemic Risk Survey		20
Chapter II : Financial Institutions: Soundness and Resi	ilience	21
Scheduled Commercial Banks		21
Performance – Assets and Earnings		22
Asset Quality and Capital Adequacy		23
Sectoral Asset Quality		24
Credit Quality of Large Borrowers		25
Risks		27
Resilience – Macro Stress Tests		27
Sensitivity Analysis		29
Bottom-up Stress Tests – Credit, Mar	ket and Liquidity Risk	35
Bottom-up Stress Tests – Derivatives	Portfolio	36
Scheduled Urban Cooperative Banks		37
Stress Tests – Credit risk		37
Stress Tests – Liquidity Risk		37
Non-banking Financial Companies		38
Asset Quality and Capital Adequacy		38
Post COVID-19 Response		38
Stress Tests		39
SMA Ratio Analysis		39
Interconnectedness		41
Network of the Financial System		41
Contagion Analysis		49

	Page No.
Chapter III: Regulatory Initiatives in the Financial Sector	53
Monetary Policy	53
Funding and Market Liquidity	54
Asset Purchases	55
Credit Facilities	56
Macroprudential Policies	58
Domestic Developments	62
Cyber Security	63
Payment and Settlement systems	64
Resolution and Recovery	64
Non-banking Financial Companies	66
Mutual Funds	67
Capital Mobilisation – Equity and Corporate Bonds	69
Credit Ratings	71
Commodity Derivatives Market	72
Insurance	74
Pension Funds	76
Annex 1: Systemic Risk Survey	78
Annex 2: Methodologies	84
Annex 3: Important Regulatory Measures	97

		Page No.
LIST	OF BOXES	
2.1	Pandemics to Financial Crises – Importance of Understanding Networks and Contagion	41
3.1	COVID-19: A Relook at G-SIBs in Key Jurisdictions	60
3.2	Catastrophic Risk Insurance	74
LIST	OF CHARTS	
1.1	Global Purchasing Managers' Indices (PMI)	4
1.2	Volume Growth of World Merchandise Trade	4
1.3	Global Leverage	5
1.4	Emerging Markets (EMs) Leverage	5
1.5	EMs' Daily Flows (28 day moving average)	6
1.6	Emerging Market Bond Returns (Annualised)	7
1.7	Capital Market Returns and Emerging Market Portfolio Flows	7
1.8	Brent Futures	7
1.9	Net Borrowings (Central and State Governments) and G-Sec 10-year yield	9
1.10	India's Merchandise Trade Growth	9
1.11	Foreign Portfolio Investment Flows	9
1.12	FPI Flows – Emerging Markets	10
1.13	Exchange Rate Movements and Realised Volatility	10
1.14	Leverage and Profitability - Listed Non-Financial Firms,by Ownership	11
1.15	Leverage and Profitability - Non-PSU Listed and Non-financial Firms, By Ratings	11
1.16	Credit Growth, Scheduled Commercial Banks	11
1.17	Wholesale Credit Outstanding by Borrower Categories/Lender Groups, March 2020	12
1.18	Wholesale Credit Growth (based on CAGR over the last 3 years) across various Borrower Categories	12
1.19	Excess Liquidity/NDTL - Select PSBs and Major PVBs	14
1.20	Long-term Ratings Movement and Number of Obligors	14
1.21	Incremental GNPA Ratio of Downgraded Companies	15
1.22	MFs' Investments in G-Sec/T-Bills/CBLO and Spread Products	16
1.23	Representative Movements in Rebased Net Asset Values of three Schemes	16
1.24	Investor Profiles of Debt and Equity Funds	17
1.25	Excess Returns in Liquid Funds	17
1.26	CP Issuances: Non-PSU Obligors	18
1.27	NCD Issuances: Non-PSU Obligors	18
1.28	CP issuances – Non-Financial Non-PSU Obligors	18
1.29	NCD Issuance – Non-Financial Non-PSU Obligors	18
1.30	House Launches and Sales	19

		Page No.
1.31	Unsold Inventory and Inventory Overhang	19
1.32	City-wise Weighted Average Price Growth	20
2.1	Select Performance Indicators	22
2.2	Select Asset Quality Indicators	23
2.3	Sectoral Asset Quality Indicators	25
2.4	Select Asset Quality Indicators of Large Borrowers	26
2.5	Banking Stability Map	27
2.6	Macroeconomic Scenario Assumptions	27
2.7	Projection of SCBs' GNPA Ratios	28
2.8	CRAR Projections	28
2.9	Projection of CET 1 Capital Ratio	29
2.10	Credit Risk - Shocks and Outcomes	30
2.11	CRAR-wise Distribution of Banks	30
2.12	Range of Shifts in CRAR	31
2.13	Credit Concentration Risk: Individual Borrowers – Stressed Advances	31
2.14	Credit Concentration Risk: Individual Borrowers – Exposure	32
2.15	Trading Book Portfolio: Bank Group-wise	33
2.16	Yield Curves (G-Sec) and Shift in Yields Across Tenors since December 2019	33
2.17	Equity Price Risk	34
2.18	Liquidity Risk – Shocks and Outcomes	35
2.19	Bottom-up Stress Tests — Credit and Market Risks – Impact on CRAR	35
2.20	Bottom-up Stress Tests — Liquidity Risk	36
2.21	Net MTM of Total Derivatives Portfolio – Select Banks, March 2020	36
2.22	Stress Tests – Impact of Shocks on Derivatives Portfolio of Select Banks – (change in net MTM on application of a shock)	37
2.23	Non-PSU NBFC/HFC - Funded Amount Outstanding to Banks	40
2.24	Bilateral Exposures between Entities in Financial System	42
2.25	Network Plot of the Financial System, March 2020	43
2.26	Net Receivables (+ve) / Payables (-ve) by Institutions	43
2.27	Inter-bank Market	44
2.28	Different Bank Groups in the Inter-bank Market	44
2.29	Composition of Fund-based Inter-bank Market	44
2.30	Network Structure of the Indian Banking System (SCBs+SUCBs) – March 2020	45
2.31	Connectivity Statistics of the Banking System (SCBs)	46
2.32	Gross Receivables of AMC-MFs from the Financial System	46
2.33	Gross Receivables of Insurance Companies from the Financial System	47

		Page No.
2.34	Gross Receivables of AIFIs from the Financial System	47
2.35	Gross Payables of NBFCs to the Financial System	48
2.36	Gross Payables of HFCs to the Financial System	48
2.37	Contagion Losses due to Macroeconomic Shocks	51
3.1	MFs' Exposure to Downgraded Corporate Bonds	68
3.2	Deployment of Funds in less than 90 days Instruments	69
3.3	Deployment of Funds in more than 90 days Instruments	69
3.4	Capital Mobilisation in Capital Markets	70
3.5	Capital Mobilisation through Equity and Debt Issues	70
3.6	Category-wise Issuers and Subscribers of Corporate Bonds	71
3.7	Category-wise Issuers and Subscribers (Public and Private)	71
3.8	Debt Issues of Listed Companies in terms of Rating Action - CRA-wise	72
3.9	Global Commodity Price Changes in per cent (January 20, 2020-April 21, 2020)	72
3.10	Movement of Domestic and International Commodity Futures Indices	73
3.11	A snapshot of Commodity Derivatives Turnover at Exchanges	74
LIST	OF TABLES	
1.1	Growth Projections	4
1.2	US Money Markets	6
1.3	Brent Options Open Interest	7
1.4	Analysis of Loan Moratorium Availed as on April 30, 2020	12
1.5	Disaggregated Wholesale Credit Growth	13
1.6	Disaggregated Wholesale Credit Growth-based on Ownership	13
1.7	Disaggregated Wholesale Credit Growth in Non-PSU Obligors	13
1.8	Wholesale Credit Growth in various Transition Credit Cohorts	13
1.9	Sectoral Credit Growth	14
1.10	SCBs' Performing Portfolios and their Composition	15
1.11	Ratings Distribution of Standard Portfolios of SCBs	15
1.12	Ratings Distribution of Performing but Vulnerable Portfolios of SCBs (SMA-1/2)	15
1.13	Trends in Resource Mobilization by Mutual Funds	16
1.14	Issuances and Near-term Maturities of CPs and NCDs of Non-Financial Non-PSU Obligors	19
2.1	Top 10 Industries with High Share of Good Quality Assets	29
2.2	Credit Concentration Risk: Group Borrowers' Exposure	32
2.3	Decline in System Level CRAR	32
2.4	Tenor-wise PV01 Distribution of AFS Portfolio	33
2.5	OOI - Profit/(loss) on Securities Trading	34

		Page No.
2.6	Tenor-wise PV01 Distribution of HFT portfolio	34
2.7	Interest Rate Risk – Bank Groups - Shocks and Impacts	34
2.8	Asset Quality and CRARs of NBFCs	38
2.9	Share of Ratings Category in SMA (SMA 1 & 2) Loans to Non-PSU Obligors	39
2.10	Share of Ratings category - Standard Loans (0 days past due and SMA-0) to Non-PSU Non-financial Obligors	39
2.11	Asset Impairment Status of Bank Loans to Non-PSU NBFCs, March 2020	40
2.12	Asset Impairment Status of Bank Loans to Non-PSU HFCs, March 2020	40
2.13	Issuances and Near-term maturities of CPs & NCDs of Non-PSU NBFCs/HFCs	41
2.14	Net Funding Sources of Select Classes of Financial Intermediaries from Financial System	49
2.15	Contagion Losses due to Bank Failure – March 2020	50
2.16	Contagion Losses due to Non-PSU NBFC Failure – March 2020	50
2.17	Contagion Losses due to HFC Failure – March 2020	50
3.1	COVID-19 Liquidity Facilities	54
3.2	Credit Support Intervention	56
3.3	Select regulatory policy measures for the banking sector	59
3.4	Corporate Insolvency Resolution Process (CIRP)	65
3.5	Sectoral distribution of CDs under CIRPs	65
3.6	Initiation of the Corporate Insolvency Resolution Process	65
3.7	Status of CIRPs as on March 31, 2020	66
3.8	CIRPs Ending with Orders for Liquidation	66
3.9	NBFCs' Balance Sheets	66
3.10	Liability Structure of the NBFC Sector - December 2019	67
3.11	Assets at the End of the Period-B-30 versus T-30 cities	67
3.12	SIPs in 2019-20 (October 01, 2019 to March 31, 2020)	68
3.13	SIPs in 2019-20 (April 2020)	68
3.14	SIP versus non-SIP net inflows	68
3.15	Funds Raised in the Primary Market during April 2020	70
3.16	Segment-wise Turnover in commodity Derivatives	73
3.17	Subscribers and AUM: NPS and APY	77