

# Overview of current strategy on education / syllabus overview

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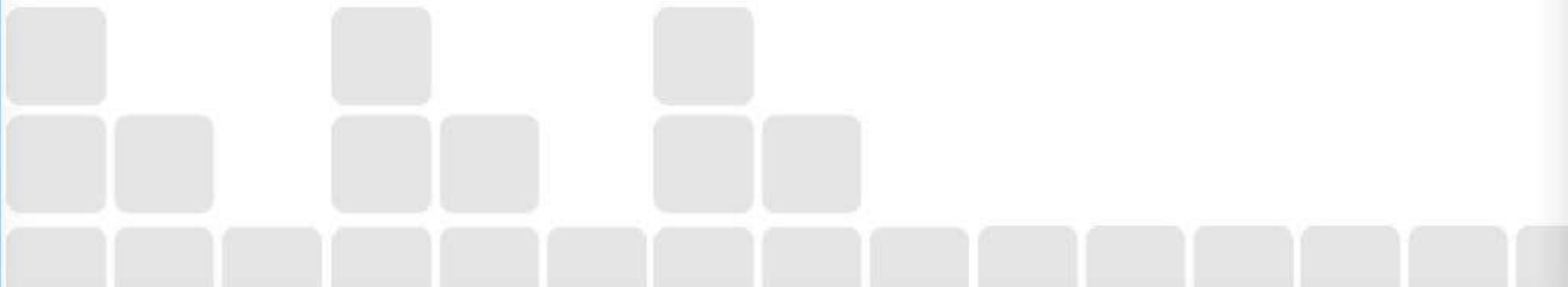


**6th Capacity Building Seminar on  
Retirement Benefits  
Gurugram  
14th March, 2019**



Institute of Actuaries of India

# EDUCATION CURRICULUM 2019



# Qualification Structure



Qualification: Associate											
Personal and Professional Development (PPD)	Core Principles	Actuarial Statistics		Actuarial Mathematics		Business		Pass all Core Principles and Core Practice exams			
		Actuarial Statistics CS1A 3 hrs and 15 mins paper-based	Risk Modelling and Survival Analysis CS2A 3 hrs and 15 mins paper-based	Actuarial Mathematics CM1A 3 hrs and 15 mins paper-based	Financial Engineering and Loss Reserving CM2A 3 hrs and 15 mins paper-based	Business Finance CB1 3 hrs and 15 mins paper-based	Business Economics CB2 3 hrs and 15 mins paper-based				
		Actuarial Statistics CS1B 1 hr and 45 mins 'R' computer-based	Risk Modelling and Survival Analysis CS2B 1 hr and 45 mins computer-based - 'R'	Actuarial Mathematics CM1B 1 hr and 45 mins computer-based Excel	Financial Engineering and Loss Reserving CM2B 1 hr and 45 mins computer-based - Excel	Business Management CB3 3 hrs and 15 mins computer-based - Word					
		Actuarial Practice		Modelling Practice		Communications Practice					
	Core Practices	Actuarial Practice CP1 2 papers 3 hrs and 15 mins paper-based		Modelling Practice CP2 2 papers 3 hrs and 15 mins computer-based - Excel		Communications Practice CP3 3 hrs computer-based - Word					
	Qualification: Fellow										
	Specialist Principles	Alternative	Health and Care	Life Insurance	Pensions and other benefits	Investment and Finance		General Insurance		Enterprise and Risk Management	Pass two SP subjects
		Master's level dissertation SPO	Health and Care Principles SP1 3 hrs and 15 mins paper-based	Life Insurance Principles SP2 3 hrs and 15 mins paper-based	Pensions and other benefits Principles SP4 3 hrs and 15 mins paper-based	Investment and Finance Principles SP5 3 hrs and 15 mins paper-based	Financial Derivatives Principles SP6 3 hrs and 15 mins paper-based	General Insurance Reserving and Capital Modelling Principles SP7 3 hrs and 15 mins paper-based	General Insurance Pricing Principles SP8 3 hrs and 15 mins paper-based	Enterprise Risk Management Principles SP9 3 hrs and 15 mins paper-based	
		Master's level thesis SAO	Health and Care Advanced SA1 3 hrs and 15 mins paper-based	Life Insurance Advanced SA2 3 hrs and 15 mins paper-based	Pensions and other benefits Advanced SA4 3 hrs and 15 mins paper-based	Investment and Finance Advanced SA7 3 hrs and 15 mins paper-based		General Insurance Advanced SA3 3 hrs and 15 mins paper-based			
Specialist Advanced									Pass one SA subject		

# Core Theory

## Core Statistics

- CS1 comprises syllabus of CT3 and Statistical Package 'R'.
- CS2 comprises syllabus of CT4 & CT6, and Statistical Package 'R'.

## Core Mathematics

- CM1 comprises syllabus of CT1 & CT5 and Excel.
- CM2 comprises syllabus of CT8 and Excel

## Core Business

- CB1 comprises syllabus of CT2
- CB2 comprises syllabus of CT7
- CB3 comprises syllabus of CT9 and some portions of CA1

# Assessment Method (1)

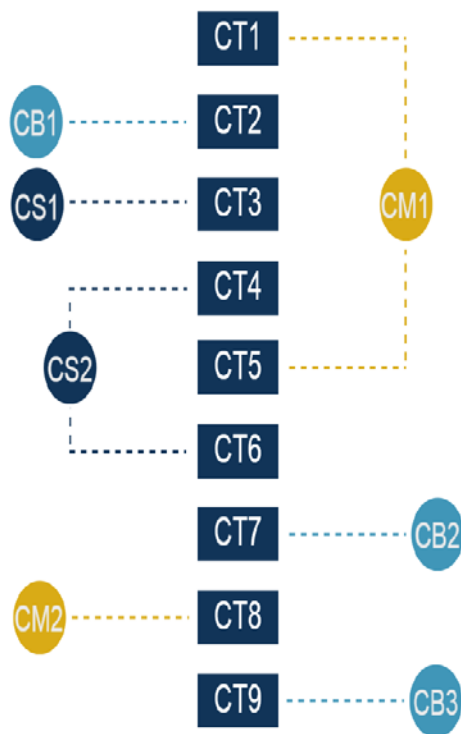
- ❑ **Actuarial Statistics (CS1)**
  - 3.15 hr Theoretical paper-based Exam (Paper A)
  - 1.45 hr Computer based exam on 'R' (Paper B)
  
- ❑ **Risk Modelling & Survival Analysis (CS2)**
  - 3.15 hr Theoretical paper-based Exam (Paper A)
  - 1.45 hr Computer based exam on 'R' (Paper B)
  
- ❑ **Actuarial Mathematics (CM1)**
  - 3.15 hr Theoretical paper-based Exam (Paper A)
  - 1.45 hr Computer based exam on Excel (Paper B)
  
- ❑ **Financial Engineering & Loss Reserving (CM2)**
  - 3.15 hr Theoretical paper-based Exam (Paper A)
  - 1.45 hr Computer based exam on Excel (Paper B)

# Assessment Method (2)



- ❑ **Business Finance (CB1)**
  - 3.15 hour written exam
  - 30% Objective Test Questions
  - 70% “traditional” questions
  
- ❑ **Business Economics (CB2)**
  - 3.15 hour written exam
  - 30% Objective Test Questions
  - 70% “traditional” questions
  
- ❑ **Business Management (CB3)**
  - Same as current CT9

# Mapping & Transfer Rules



## Transfer rules

- In order to obtain a pass in an exam in the new curriculum you must obtain passes in the applicable subjects in the current curriculum by the 31st December 2018.
- The exemptions process will continue to form a part of the new exam structure. For exemptions from exams in the new curriculum you must have been granted an exemption from the applicable subjects in the current curriculum by the 31<sup>st</sup> December 2023.
- If an exam in the new curriculum has two applicable subjects in the current curriculum you will need to obtain passes or exemptions in both of these to be able to obtain a pass or exemption in the new subject.
- If you have a pass or exemption in only one of these applicable subjects by the time the deadlines have passed you will need to sit the new subject as a whole.

# Core Practice

## CP1- Actuarial Practice

- Examination questions may be set on any area of work in which actuaries participate, including wider fields such as banking, environmental issues, management of natural resources, and other topics.
- Questions will not require technical knowledge of the subject context beyond the material covered in this and the Core Statistics, Core Modelling and Core Business subjects, but will assume a general understanding of the business, commercial, social and natural environment.

## CP2- Modelling Practice

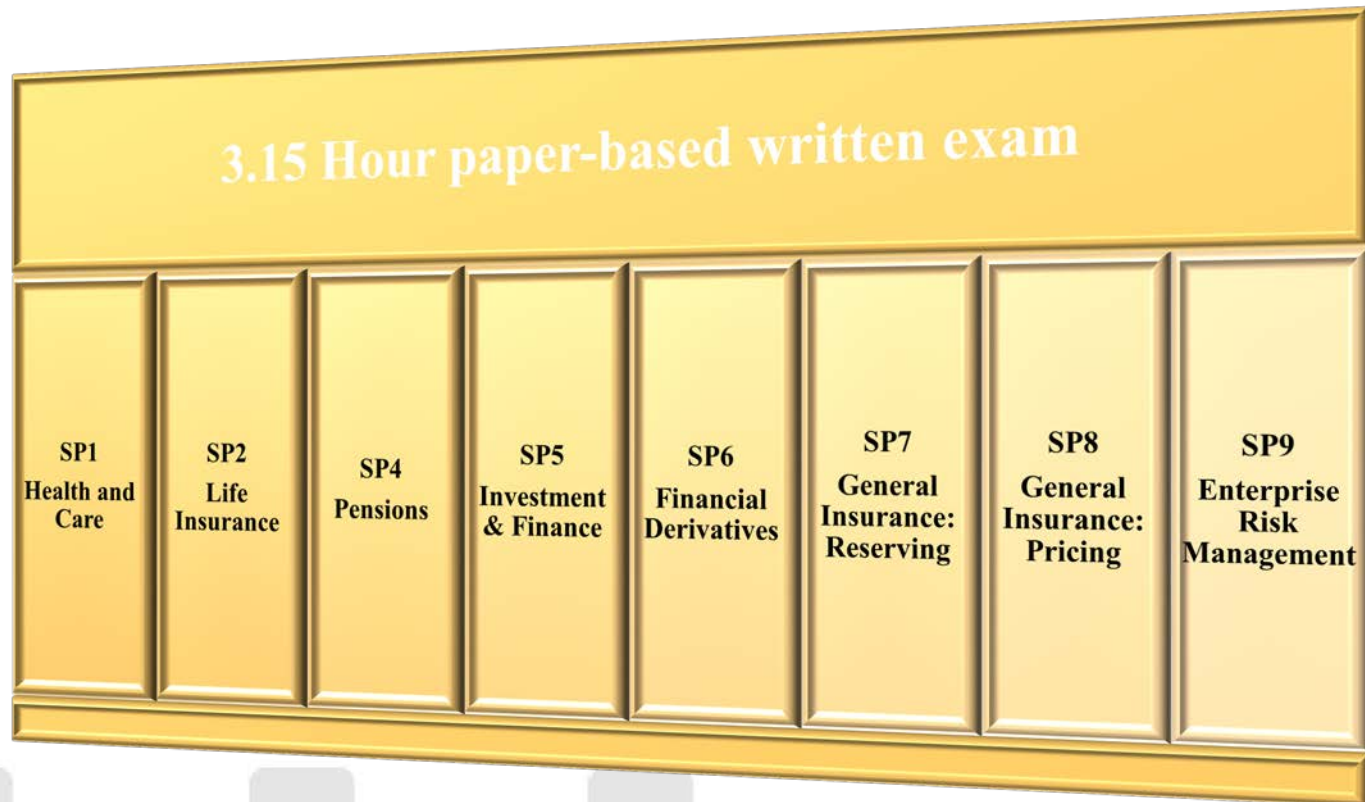
- Syllabus includes modelling of data, documentation of work, analysis of methods, communication to an actuarial audience and data analytics
- Two Papers
- Both sat together and pass together

## CP3- Communication Practice

- Only written exam
- Can include case study based
- Part of the usual examination diet



# Specialist Principles



# Specialist Advance



3.15 Hour paper-based written exam

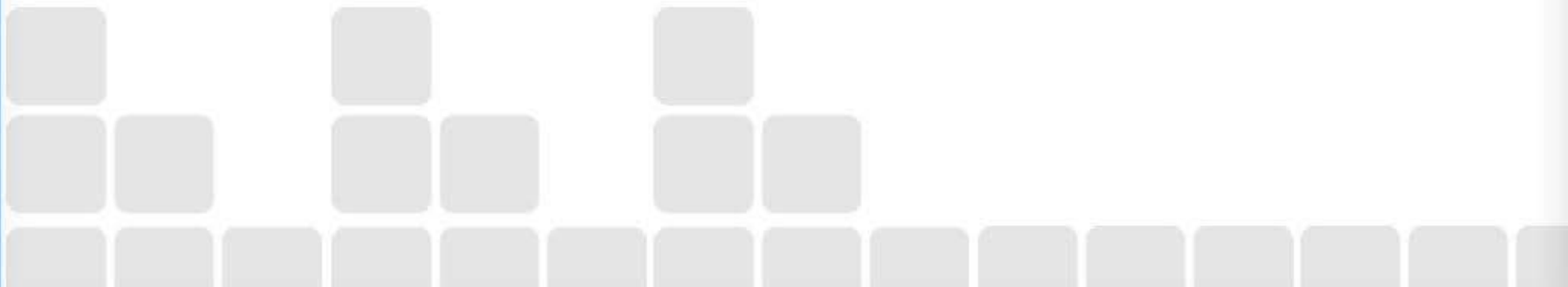
SA1 Health and Care	SA2 Life Insurance	SA3 General Insurance	SA4 Pensions	SA7 Investment & Finance
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**UK specific references have been removed from the core reading of the SA subjects and these subjects have also been revised to include references to comparisons between jurisdictions and expansion into wider non-UK specific topics.**



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# EXAMINATION TECHNIQUE



# Overview of Questions



- A typical examination question paper contains following types of questions:
  - Bookwork based questions: around 15-20 marks,
  - Applied questions where students' ability to use the technical knowledge under practical situation is tested: around 60-70 marks.
  - Higher Order Skill questions where understanding of special skills are tested: around 15-20 marks

*The break- ups given are indicative only and may vary between the subjects and exam diets*

# Exam Preparation (1)



- A successful student should focus on the syllabus objectives –
  - Please do not skip any chapter,
  - Question paper covers all the major parts of the syllabus objective (please refer to the course structure at the beginning of each subject)
- Read the question carefully – Students’ often overlook important element of question.
- Remember no marks are given for answers not addressing the question, however good the answer may be.
- Restrict your answer to what has been asked and do not waste time; No extra credit available on additional knowledge

# Exam Preparation (2)



- Start at least three months (based on difficulty level of the paper) before the exam.
- More than 50% of the time should be devoted for practicing model question and answers.
- Practice past exam papers and if possible, practice under exam condition.
- Revisit your answers after a few days. Don't worry if you cannot score well – it is a mock exam only.
- Try to go through last five years' exam question papers.
- Past exam papers can be a good guide though generally the exam questions are not repeated.

# Command Verbs

- These are the words in the question indicating what has been asked
- For example ‘List’ means only to mention the main points and not to elaborate them.
- ‘Describe’ requires full details of the fact
- ‘Justify’ means you need to provide support to the given fact
- ‘Outline’ means only a brief description (not the elaboration) is required.

*NB: Generally  $\frac{1}{2}$  marks for each distinct points. Write bullet points instead of paragraphs for theoretical papers.*

# Common Mistakes



- Students do not read question.
- Students sometimes waste time in initial few questions and then rush through at final hours.
- Students do not focus on bookwork questions
- Students try to attempt higher skill difficult question first and waste time.
- Do not follow the instructions given in first page of the answer booklet
- Finally – Practice sample paper/questions as much you can



# Guidance on Exam Day (1)



- Handling apparently lengthy questions –
  - Focus on what has been asked for
  - Write answer according to marks - generally  $\frac{1}{2}$  marks allotted for each distinct point, 1 marks for special points, for list type question  $\frac{1}{4}$  marks are allotted for each small point.
  - Cover the main points
- Generally part marks are given for partly right answers
- Mathematical questions
  - Marks are distributed for each important part of the answer.
  - Final numerical answer carries a small part of the total allotted marks.
  - Show intermediate steps
  - Don't mis-lead

# Guidance on Exam Day (2)



- Start with the question you are best prepared . But do not waste too much time on it
- Don't miss out the bookwork questions – these are easy marks
- Don't worry if you are unable to complete the paper. Even 85 -90% attempt may be good for mathematical papers
- Remember - Marking schedules are objective and focused on distinct points addressing the question
- The least prepared questions should be answered at the end (if time permits)
- No marks are given for the rough work
- No marks for answers that have been crossed by the student.

# After Exam



- What to do if you fail –
  - You can go for counselling
  - You can ask for script from IAI -go through it to identify your mistake
  - Attend IAI doubt clearing/tuition classes.
- Rotate subjects if you are stuck with some of them.
- Practice and do self-critical review.



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# INTERACTION SESSION

