

# Subject CS1

## CMP Upgrade 2024/25

### CMP Upgrade

This CMP Upgrade lists the changes to the Syllabus, Core Reading and the ActEd material since last year that might realistically affect your chance of success in the exam. It is produced so that you can manually amend your 2024 CMP to make it suitable for study for the 2025 exams. It includes replacement pages and additional pages where appropriate.

Alternatively, you can buy a full set of up-to-date Course Notes / CMP at a significantly reduced price if you have previously bought the full-price Course Notes / CMP in this subject. Please see our *2025 Student Brochure* for more details.

We only accept current versions for marking, *ie* those published for the sessions leading to the 2025 exams. If you wish to submit your scripts for marking but only have an old version, then you can order the current assignments / mock exams free of charge if you have purchased the same materials in the same subject in a previous year, and have purchased marking for the 2025 session.

This CMP Upgrade contains:

- all significant changes to the Syllabus and Core Reading
- additional changes to the ActEd Course Notes, Assignments and Mock Exam that will make them suitable for study for the 2025 exams.

## 0 Changes to the Syllabus

There are no *non-trivial* changes to the syllabus objectives.

# 1 Changes to the Core Reading and ActEd material

There are no *non-trivial* changes to the Core Reading.

This section contains all the *non-trivial* changes to the ActEd text.

## Chapter 13

### *Page 32*

In Section 4, the second paragraph after the R box should read:

Remember that  $\theta$  is the natural parameter for the exponential family form and that  $\theta$  is a function of the mean of the distribution  $\mu$ .

### *Page 66*

In Solution 13.4 (v), it should read:

The number of degrees of freedom in the  $\chi^2$  distribution is the number of additional parameters in Model A. This is  $3 - 1 = 2$ . [½]

### *Page 73*

In Solution 13.9 (iv)(b), it should read:

This is less than 7.815, the upper 5% point of the  $\chi^2_3$  distribution. [½]

## 2 Changes to the X Assignments

There are no *non-trivial* changes to the X assignments.

### 3 Changes to the Y Assignments

There are no *non-trivial* changes to the Y assignments.

## 4 Changes to the Mock Exam

### Mock Exam Paper B

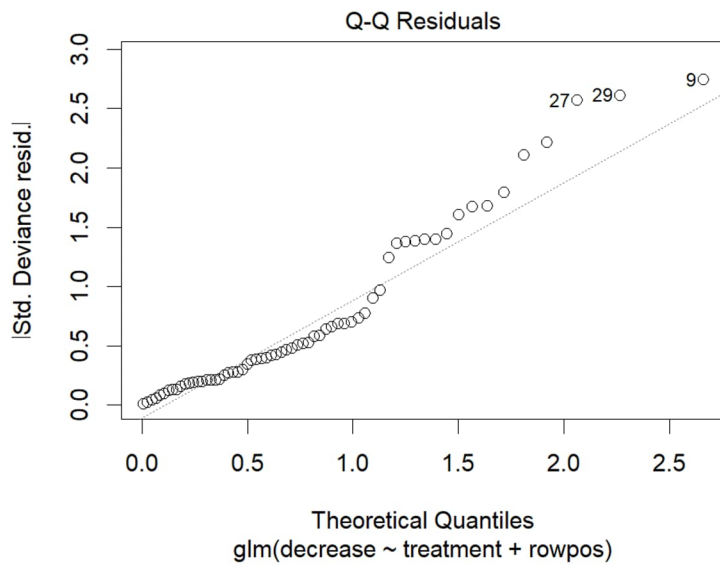
#### Solution 5

The plot has been updated in part (vi).

The Q-Q plot is given by:

```
plot(Model2, 2)
```

# [1]



[1]

## 5 Other tuition services

In addition to the CMP, you might find the following services helpful with your study.

### 5.1 Study material

For further details on ActEd's study materials, please refer to the *Products* pages on the ActEd website at **ActEd.co.uk**.

### 5.2 Tutorials

We offer the following (face-to-face and/or online) tutorials in Subject CS1:

- a set of Regular Tutorials (four days or eight half days)
- a Block (or Split Block) Tutorial (lasting four full days)
- a Paper B preparation day
- a five-day Bundle (four days of regular tutorials plus a Paper B preparation day)
- An Online Classroom.

For further details on ActEd's tutorials, please refer to our latest *Tuition Bulletin*, which is available from the ActEd website at **ActEd.co.uk**.

### 5.3 Marking

You can have your attempts at any of our assignments or mock exams marked by ActEd. When marking your scripts, we aim to provide specific advice to improve your chances of success in the exam and to return your scripts as quickly as possible.

For further details on ActEd's marking services, please refer to the *2025 Student Brochure*, which is available from the ActEd website at **ActEd.co.uk**.

### 5.4 Feedback on the study material

ActEd is always pleased to receive feedback from students about any aspect of our study programmes. Please let us know if you have any specific comments (*eg* about certain sections of the notes or particular questions) or general suggestions about how we can improve the study material. We will incorporate as many of your suggestions as we can when we update the course material each year.

If you have any comments on this course, please send them by email to **CS1@bpp.com**.

*All study material produced by ActEd is copyright and is sold for the exclusive use of the purchaser. The copyright is owned by Institute and Faculty Education Limited, a subsidiary of the Institute and Faculty of Actuaries.*

*Unless prior authority is granted by ActEd, you may not hire out, lend, give out, sell, store or transmit electronically or photocopy any part of the study material.*

*You must take care of your study material to ensure that it is not used or copied by anybody else.*

*Legal action will be taken if these terms are infringed. In addition, we may seek to take disciplinary action through the Institute and Faculty of Actuaries or through your employer.*

*These conditions remain in force after you have finished using the course.*