

## GEE

# Mathematics \& Statistics B 

## Unit MBS2

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## Key to mark scheme

| M | mark is for | method |
| :---: | :---: | :---: |
| m | mark is dependent on one or more M marks and is for | method |
| A | mark is dependent on M or m mark and is for | accuracy |
| B | mark is independent of M or m marks and is for | method and accuracy |
| E | mark is for | explanation |
| $\checkmark$ or ft or F |  | follow through from previous incorrect result |
| CAO |  | correct answer only |
| AWFW |  | anything which falls within |
| AWRT |  | anything which rounds to |
| AG |  | answer given |
| SC |  | special case |
| OE |  | or equivalent |
| A2,1 |  | 2 or 1 (or 0) accuracy marks |
| $-\boldsymbol{x}$ EE |  | Deduct $x$ marks for each error |
| NMS |  | No method shown |
| PI |  | Perhaps implied |
| c |  | Candidate |

## Abbreviations used in marking

| MC $-\boldsymbol{x}$ | deducted $x$ marks for miscopy |
| :--- | ---: |
| MR $-\boldsymbol{x}$ | deducted $x$ marks for misread |
| ISW | ignored subsequent working |
| BOD | gave benefit of doubt |
| WR | work replaced by candidate |

## Application of mark scheme

mark as in scheme
Incorrect answer without working zero marks unless specified otherwise

[^0]



| Question Number and part | Solution |  |  |  |  |  | Marks | Total | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6(a)(i) | Systematic |  |  |  |  |  | B1 | 1 |  |
| (ii) | 80 |  |  |  |  |  | B1 | 1 |  |
| (iii) | Easier to obtain because only need to select one random number. |  |  |  |  |  | E1 | 1 |  |
| (b)(i) |  | Y1 | Y2 | Y3 | Y4 | Tot | M1 |  |  |
|  | F | 18 | 13 | 12 | 12 | 55 |  |  |  |
|  | M | 14 | 12 | 10 | 9 | 45 | A1 |  | 3 correct |
|  | Tot | 32 | 25 | 22 | 21 | 100 | A1 | 3 | All correct (no marks for totals) |
| (ii) | No because sample cannot consist of all males |  |  |  |  |  | E1 | 1 | oe |
| (c) |  |  |  |  |  |  |  |  | Many possible answers |
|  | Randomly select two Halls of Residence. This will give sample of size 200. |  |  |  |  |  | B1 |  | Cluster |
|  |  |  |  |  |  |  |  |  | Describe random sampling |
|  | Number Halls 00-19 |  |  |  |  |  | B1 |  |  |
|  | Select a 2 digit random numberIgnore repeats and |  |  |  |  |  | B1 |  |  |
|  |  |  |  |  |  |  | B1 |  |  |
|  |  |  |  |  |  |  | B1 | 13 |  |
|  |  |  |  |  |  | Total |  | 13 |  |
|  |  |  |  |  |  | TOTAL |  | 60 |  |


[^0]:    Award method and accuracy marks as appropriate to an alternative solution using a correct method or partially correct method.

