## Cambridge IGCSE ${ }^{\text {TM }}$

## INFORMATION AND COMMUNICATION TECHNOLOGY

0417/02
Paper 2 Practical Test A
October/November 2020
MARK SCHEME
Maximum Mark: 80

## Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes

Cambridge International is publishing the mark schemes for the October/November 2020 series for most Cambridge IGCSE ${ }^{\text {TM }}$, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

## Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

## GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.


## GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

## GENERIC MARKING PRINCIPLE 3:

Marks must be awarded positively:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:
Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

## GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:
Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

## Tawara MTB Marathon Race


village and the ongoing race commentary, there is plenty to keep all entertained. There are trade stands, bike demonstrations, live music, relaxation areas and a children's play area. There are also a host of food and drink stands.

Event Format
The event follows the traditional MTB marathon format with riders completing as many laps of the 14 km course as they can in the time allowed. As long as a lap has been started fore the finish time it can be completed. With lots of different categoried there is something to appeal to all levels and

## abilitv of riderf

## Columns

Section break in correct position
vice riders throwah to vervexnerienced

Site pronaration takoc nlace in the wook hoforo the ovent Dublic ridino of the

## Subheadings (6)

Thary
RW-Subhead style matches style defined in EV2, applied consistently to all

1 mark
An a
competition. Failure to meet this requirement may result in immediate qification from the event. At night all riders must have a red rear flashing white front light and a spare white light (this can be a second front
1 mark ead lamp or a small torch). Our lighting partners will be on hand to pur light batteries charged throughout the night. Riders are permitted mobile phones or 2-way radios on the course, but these must not use earpleces and the rider must stop and pull off the course to use them. Headphones and musical playing devices are not permitted for riders whilst on the course.

## Entry Categories

The weekend offers riders the option of competing in a full 24-hour race, or one of two 12 -hour races. All races are open to solos riders, pairs and teams of four, five or eight. Entering as a team or pair will make the weekend more sociable and enjoyable. Riding the first 12 -hour race means riders are finished by midnight and can then socialise and support the heroic riders who are continuing for the full 24 hours.

The minimum entry age for all competitive races is 18 . The age of a rider is calculated on 31 December of the year that the race is held. Riders entering

Bullets indented 2.5 cm from left margin, single line, Opt space between 1 mark
age categories will be required to produce a photo ID at registration sh their date of birth. A rider can only enter one of the following categories in the race:

| Entry Options |  |  |  |
| :---: | :---: | :---: | :---: |
| Catcgory | Agc | Max Riders | Notes |
| Solo | 18+ | 1 | More experienced riders. Only pit crew and other riders for company. Must be able to perform well without any slecp. |
| Solo Veteran | 40+ |  |  |
| Pairs | 18+ | 2 | Relay format, riding sharcd. Pair decide team tactics and how many laps cach rider completes. |
| Tcam Open | 18+ | 4 | Relay format with men, women and mixed teams. Spreads the load, requires stratcgy and planning. |
| Team Veterans | 40+ | 5 | Combined age $170+$ for 4 riders, $210+$ for 5 riders. |
| Easy Rider | 16+ | 8 | Up to 8 riders in relay format. Less demanding for individuals. Suits work groups or clubs. |

Within each category, the rider or team who has completed the most laps is the winner. For riders on the same number of laps, the rider who has completed them in the shortest total race time will receive the higher placing. Prizes are awarded for the top three in all categories.

Every participant is allocated a $3 \mathrm{~m} \times 3 \mathrm{~m}$ pit area which is included in the entry fee. Event entry also entitles entrants and their supporters to up to four nights camping which makes for a great value long weekend.

## The Course

The race course is just over 14 km long and features 140 m of elevation per
RW-Body style seen modified (EV4), all formatting correct (sans-serif, 10pt, justified, no enhancement, single line, 0 before $9 p t$ after)

Document complete/paragraphs intact, landscape, spacing consistent columns aligned at top, no widows/orphans, split lists/tables, no blank pages, 9pt after table and bullets

1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
1 mark
(serif, 10pt, column 4 justified, single line, Opt before and after each row)


## MTB Marathon Results

Last_Name
Magsamen
Hoeppner
Pollard
Woodward
Heinemann
Tilbury
Simmons
Hughes
Padgham
Flater
Garvin
Brassington
Yaworski
Paton
Manner
Hurd
Bjolverud
Mckeever
Sutherland
Anderson
Marshall
Melhoney
Martin Pollard Woodward Tilbury Simmons
Hughes

| Hughes | Jean-Luc | Male | 35 | 1387 | 3.84 | 75 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Padgham | Marg | Female | 70 | 1010 | 8.77 | 50 |
| Flater | Susan | Female | 24 | 1476 | 4.05 | 50 |
| Garvin | Male | 26 | 1286 | 3.86 | 75 |  |

Brassington

PUBLISHED
1 mark 1 mark

Yaworski Paton Manner Hurd Bjolverud Mckeever Sutherland Anderson Marshall Melhoney Martin


Name, centre number, candidate number

| New record Flater, Susa <br> record Padgham, Marg, <br> New record entered acc |  |
| :--- | :--- |
| Adam | Male |
| Kendra | Female |
| Jacob | Male |
| Philippe | Male |
| Jane | Female |
| Meghan | Female |
| Tanya | Female |
|  |  |
| ntre number, candidate |  |
| a footer, on every page |  |
| 1 mark |  |

First_Name Gender Age Race_No
Denise

| Brian | Male | 59 | 1497 |
| :--- | :--- | :--- | :--- |
|  | 25 | 1374 |  |



Tabular report, specified fields, correct order Sort ascending Club Name, ascending Position, no grouping 1 mark Landscape, one page wide, all base fields, no truncation 1 mark

## 0417/02

| Last_Name | First_Name | Gender |
| :--- | :--- | :--- |
| Kindzierski | Tait | Male |
| Michalski | Brooke | Female |
| Parker | Sarah | Female |
| Coates | Chris | Male |
| Bougie | Danielle | Female |
| Asselstine | Tim | Male |
| Bostick | Madeleine | Female |
| Meeres | Jennifer | Female |
| Gregoire | Michael | Male |
| Dymchuk | David | Male |
| Johnstone | Trevor | Male |
| Sutherland | Ray | Male |
| Dodd | Justin | Male |
| Collins | Graham | Male |
| Kuhn | Kier | Male |
| Popovic | Michael | Male |
| Caouette-Rochon | Andre | Male |

Cambridge IGCSE - Mark Scheme
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| Race_No | KM_Hour | Distance_KM | Club_Name |
| ---: | ---: | ---: | :--- |
| 1429 | 7.41 | 50 | MTB Dirt Rollers |
| 1538 | 7.72 | 75 | MTB Dirt Rollers |
| 1581 | 6.72 | 50 | MTB Dirt Rollers |
| 1164 | 9.04 | 50 | MTB Dirt Rollers |
| 1121 | 9.37 | 50 | MTB Dirt Rollers |
| 1029 | 5.13 | 50 | MTB Dirt Rollers |
| 1115 | 3.96 | 75 | Tawara MTB Club |
| 1532 | 4.41 | 75 | Tawara MTB Club |
| 1324 | 4.19 | 75 | Tawara MTB Club |
| 1235 | 9.04 | 50 | Tawara MTB Club |
| 1411 | 4.11 | 50 | Tawara MTB Club |
| 1733 | 5.13 | 50 | Tawara MTB Club |
| 1221 | 5.09 | 75 | Tawara MTB Club |
| 1170 | 5.38 | 75 | Tawara MTB Club |
| 1447 | 6.30 | 75 | Tawara MTB Club |
| 1613 | 6.35 | 75 | Tawara MTB Club |
| 1134 | 7.09 | 75 | Tawara MTB Club |


| Position | Total_Time |
| ---: | ---: |
| 18 | $06: 10: 30$ |
| 21 | $09: 39: 00$ |
| 22 | $05: 36: 00$ |
| 28 | $07: 32: 00$ |
| 32 | $07: 48: 30$ |
| 62 | $04: 16: 30$ |
| 1 | $04: 57: 00$ |
| 9 | $05: 30: 45$ |
| 11 | $05: 14: 15$ |
| 29 | $07: 32: 00$ |
| 33 | $03: 25: 30$ |
| 64 | $04: 16: 30$ |
| 76 | $06: 21: 45$ |
| 94 | $06: 43: 30$ |
| 129 | $07: 52: 30$ |
| 131 | $07: 56: 15$ |
| 144 | $08: 51: 45$ |

## Title

Title 100\% accurate, top of page, fully visible, no other text 1 mark

Tabular report, specified fields, correct order 1 mark Sort descending order of County, no grouping 1 mark Portrait, all fields present, fits a single page, no vertical or horizontal truncation of data 1 mark

## Winning Club Members

Position
1
1 Joshua

1 Crystal
1 Tyla
1 Emily
1 Ian
1 Kristin
1 Ryan
1 Emma
1 Annie
1 Robbi
1 Erin
1 Chelsea
1 Anthony
1 Alexandria
1 Liann
Hayley
Phil
1 Steven
1 John
1 Sarah Rae
1 Luke
1 Erik
1 Shawn
Lukas
Samantha
1 Quinnlan
1 Caitlin
1 Anna-Gabrielle
Jon
1 Ken
1 Jenny
1 Margaret
1 Jessica
1 Madeleine

## Last_Name

Cairney
Batycky
Bristow
Linley
Oprecio
Gibney
Buchanan
Beer
Ouellette
Brookes
Davison
Mitchell
Briggs
Kumka
Maddox
Mueller
Loveday
Staneland
Stevens
Driedzic
Brandsma
Jensen
Knight
Kulak
Utting
Brophy
Maclachlan
Mackenzie
Partington
Duval
Widney
Bowe
Delaney
Maki
Bostick

Select records (35):
Position =1
County excludes Kent

1 mark 1 mark

Name, centre number, candidate number


Crankmasters Cartel
Crankmasters Cartel
Crankmasters Cartel
Wildcat Infinity Cycles
Wildcat Infinity Cycles
Headwinds Cycle Racket
Wildcat Spinners
Wildcat Spinners
Chain Collective Cycling
Saddle Blazers
Saddle Blazers
Saddle Blazers
Saddle Blazers
Cyclops Cycles
VeloCycles Riding
VeloCycles Riding
Kelso MTB
Kelso MTB
Velosport Wheelers
Velosport Wheelers
Velosport Wheelers
Velosport Wheelers
Velosport Wheelers
Velosport Wheelers
Velosport Wheelers
Ascent Cycling Club
Ascent Cycling Club
Pedalhead Rollers
Harmony Wheelers
Wheelers Road Club
Wheelers Road Club
Wheelers Road Club
Scillonian Breakers
Tawara MTB Club
Tawara MTB Club

County
Distance_KM
Worcestershire 50
Worcestershire 75
Worcestershire 25
Wiltshire 25
Wiltshire 25
West Sussex 75
Somerset 75
Somerset 25
Norfolk 50
Merseyside 50
Merseyside 75
Merseyside 75
Merseyside 50
Lancashire 50
Hertfordshire 75
Hertfordshire 50
Essex 25
Essex 25
East Sussex 25
East Sussex 75
East Sussex 25
East Sussex 50
East Sussex 75
East Sussex 75
East Sussex 25
Dorset 75
Dorset 25
Derbyshire 25
Derbyshire 75
Cumbria 50
Cumbria 50
Cumbria 50
Cornwall 75
Berkshire 50
Berkshire 75
Average race distance
51


## Task 4 - Mail Merge

```
Merge Fields inserted - <text> replaced - correct position, spacing and punctuation maintained
«First_Name» | «Last_Name» | «Street» | «Town» | «Postcode» | «First_Name» 1 mark
«Rank» | «Bursary» | «Condition». }1\mathrm{ mark
«First_Name» | «Last_Name» | «Club_Name», «District» 1 mark
«Race_No» | «Year_Band》, «Category» 1 mark
```

Tawara MTB Racing
120 Woodberry Road LONDON WC1B 4BQ
Tel: 02079460377
Email: trenquiries@tawara.org.uk
Date as Postmark
«First_Name» «Last_Name»
«Street»
«Town»
«Postcode»

## Dear «First_Name»

Due to your outstanding success in the 2019 MTB racing season, Tawara MTB Racing are delighted to offer you a small sponsorship for the forthcoming season.

Tawara MTB Racing is one of the most trusted names in mountain biking equipment. We are committed to advancing the performance and function of cycle clothing for all. We work with riders who have a genuine passion for the sport and the products we produce.

As a top ranking amateur racer your efforts in achieving the number «Rank» position in the 2019 National Championships have been recognised. We would like to be involved in your continued journey by offering you a bursary of $€_{«}$ Bursary» for the coming season. In return, we would require you to «Condition». The sponsorship would last for 1 year.

If you would like to work with us, please sign a copy of the Sponsorship Agreement in the space indicated below, and return a copy to us as soon as possible. If you have any questions, please do not hesitate to contact me.

Yours sincerely


Master document printed, Name replaces Candidate Name, Name, centre number, candidate number in the footer 1 mark

[^0]
# Tawara MTB Racing 

120 Woodberry Road LONDON
WC1B 4BQ
Tel: 02079460377
Email: trenquiries@tawara.org.uk

| Date as Postmark | Merge Result - correct 3 letters printed <br> Margaret Delaney <br> 32 Kings Street | Only Margaret Delaney, Denise Magsamen, David Soon 1 mark |
| :--- | ---: | :--- |

32 Kings Street
Only Margaret Delaney, Denise Magsamen, David Soon
1 mark
Old Town
TR21 2AP
Dear Margaret
Due to your outstanding success in the 2019 MTB racing season, Tawara MTB Racing are delighted to offer you a small sponsorship for the forthcoming season.

Tawara MTB Racing is one of the most trusted names in mountain biking equipment. We are committed to advancing the performance and function of cycle clothing for all. We work with riders who have a genuine passion for the sport and the products we produce.

As a top ranking amateur racer your efforts in achieving the number 2 position in the 2019 National Championships have been recognised. We would like to be involved in your continued journey by offering you a bursary of $€ 3500$ for the coming season. In return, we would require you to wear our brand logo on all training and racing clothing, use our branded equipment and promote our brand through social media and as opportunities arise. The sponsorship would last for 1 year.

If you would like to work with us, please sign a copy of the Sponsorship Agreement in the space indicated below, and return a copy to us as soon as possible. If you have any questions, please do not hesitate to contact me.

Yours sincerely

A Candidate
Sponsorship and Branding Manager
SPONSORSHIP AGREEMENT

| Racer Name: | Margaret Delaney |
| :--- | :--- |
| Club: | Scillonian Breakers, Isles of Scilly |
| Race Number: | 1509 |
| Registration Details: | 40 to 49, Veteran |

## Signatories:

| Racer: |  | Date: |
| :--- | :--- | :--- |
| Sponsor: |  | Date: |

Name, centre number, candidate number

## Tawara MTB Racing

120 Woodberry Road
LONDON
WC1B 4BQ
Tel: 02079460377
Email: trenquiries@tawara.org.uk

## Date as Postmark

Denise Magsamen
2 Gayton Avenue
Aylesbury
HP20 7PS

## Dear Denise

Due to your outstanding success in the 2019 MTB racing season, Tawara MTB Racing are delighted to offer you a small sponsorship for the forthcoming season.

Tawara MTB Racing is one of the most trusted names in mountain biking equipment. We are committed to advancing the performance and function of cycle clothing for all. We work with riders who have a genuine passion for the sport and the products we produce.

As a top ranking amateur racer your efforts in achieving the number 3 position in the 2019 National Championships have been recognised. We would like to be involved in your continued journey by offering you a bursary of $€ 2000$ for the coming season. In return, we would require you to wear our brand logo on all racing clothing use our branded equipment and promote our brand through social media. The sponsorship would last for 1 year.

If you would like to work with us, please sign a copy of the Sponsorship Agreement in the space indicated below, and return a copy to us as soon as possible. If you have any questions, please do not hesitate to contact me.

Yours sincerely

A Candidate
Sponsorship and Branding Manager
SPONSORSHIP AGREEMENT

| Racer Name: | Denise Magsamen |
| :--- | :--- |
| Club: | Free Spirit MTB Cycling, Aylesbury Vale |
| Race Number: | 1497 |
| Registration Details: | 50 to 59, Super Veteran |

Signatories:

| Racer: |  | Date: |
| :--- | :--- | :--- |
| Sponsor: |  | Date: |

Name, centre number, candidate number

# Tawara MTB Racing 

## Date as Postmark

David Soon
26 Cordon Place
Bourton
SN6 9WB
Dear David
Due to your outstanding success in the 2019 MTB racing season, Tawara MTB Racing are delighted to offer you a small sponsorship for the forthcoming season.

Tawara MTB Racing is one of the most trusted names in mountain biking equipment. We are committed to advancing the performance and function of cycle clothing for all. We work with riders who have a genuine passion for the sport and the products we produce.

As a top ranking amateur racer your efforts in achieving the number 1 position in the 2019 National Championships have been recognised. We would like to be involved in your continued journey by offering you a bursary of $€ 5000$ for the coming season. In return, we would require you to wear our brand logo on all training and racing clothing, use our branded equipment, act as a brand ambassador in the media and promote our brand through social media. The sponsorship would last for 1 year.

If you would like to work with us, please sign a copy of the Sponsorship Agreement in the space indicated below, and return a copy to us as soon as possible. If you have any questions, please do not hesitate to contact me.

Yours sincerely

A Candidate
Sponsorship and Branding Manager
SPONSORSHIP AGREEMENT

| Racer Name: | David Soon |
| :--- | :--- |
| Club: | Wildcat Infinity Cycles, Swindon |
| Race Number: | 1703 |
| Registration Details: | 19 to 29, Expert |

Signatories:

| Racer: |  | Date: |
| :--- | :--- | :--- |
| Sponsor: |  | Date: |

Name, centre number, candidate number

Task 6 - Presentation

> | 5 slides imported, title/bullet layout, no blank slides, no changes to text or overlap | 1 mark |
| :--- | :--- |
| Master slide items (only these items, same position, consistent on all slides) |  |
| Name, centre, candidate number, bottom left | 1 mark |
| Logo positioned top left corner, resized with aspect ratio maintained | 1 mark |
| Automated slide numbers top riaht of everv slide | 1 mark |



Presented by: Candidate name


Slide 1
New slide inserted as slide 1, title layout, centred middle of slide
Subtitle text entered $100 \%$ accurately followed by name


## General

- all riders must attend a pre-race briefing
- race will start in a single group
- no e-bikes are allowed on the course at any time
- course map available for GPS devices one week prior to event
- headphones and communication devices are prohibited
- breaking the rules will incur a time penalty or disqualification



## The Course

- single track, forest and dirt roads which pass through remote areas
- marked using direction arrows, event tape and marshals
- distance remaining sign every ten kilometres
- potentially dangerous situations marked by down pointing arrows:
- one arrow - Straight Ahead Slow
- two arrows - Caution - Dangerous Situation
- three arrows - Serious Hazard - Extreme Caution
- road s

Slide 3
Correct 3 lines indented, left aligned consistently 1 mark
3 indented lines only smaller font size, italic enhancement 1 mark
3 indented lines only with dashed (-) bullets
1 mark


## Conduct

- riders must act in a sporting manner at all times
- faster riders must be permitted to overtake without obstruction
- riders must respect nature - littering is prohibited
- riders must at all times wear the electronic timing device provided
- riders must stop and assist injured riders and report such incidents


## Support Stations

- water and bananas available at these stations
- feeding and technical assistance permitted in these areas only
- water bottles and food must be passed up to the rider by hand
- support staff not permitted to run alongside the rider
- spraying water on riders or bicycles is forbidden
- no rider may turn back on the course to reach a support station



## Equipment

- only serviceable and rideable Mountain Bikes are permitted
- bicycle wheels may not exceed 29 inches diameter
- front and rear brakes must be in good working order
- tyres fitted with metal spikes or screws are not permitted
- bicycle race numbers must be visible at all times
- a bicycle helmet must be worn at all times whilst riding



## The Course

- single track, forest and dirt roads which pass through remote areas
- marked using direction arrows, event tape and marshals
- distance remaining sign every ten kilometres
- potentially dangerous situations marked by down pointing arrows:
- one arrow - Straight Ahead Slow
- two arrows - Caution - Dangerous Situation
- three arrows - Serious Hazard - Extreme Caution
- road sections are not closed to traffic

Name, centre number, candicatenumber

Motorbikes and cars will be using the course too - please take extreme care.


EVIDENCE DOCUMENT


Step 5 - EVIDENCE 3


## Step 6 - EVIDENCE 4



Step 20 - EVIDENCE 5 - database structure

| \# ${ }^{\text {N220SCORE }}$ |  | N220CLUB |  |  | N220GROUP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Field Name | Data Type |  | Field Name | Number ${ }^{\text {Data Type }}$ |  | Field Name | Data Type |
| Last_Name | Short Text |  | Club_Name | Short Text | 8 | Group_Code | Short Text |
| First_Name | Short Text | 8 | Club_Code | Short Text |  | Year_Band | Short Text |
| Club_Code | Short Text |  | District | Short Text |  | Year_Band |  |
| Age | Number |  | County | Short Text |  | Category | Short Text |
| KM_Hour | Number |  |  |  |  | Gender | Short Text |
| Position | Number |  |  |  |  |  |  |
| Score | Number |  |  |  |  |  |  |
| I Race_No | Number |  |  |  |  |  |  |
| Cat_Code | Short Text |  |  |  |  |  |  |
| Distance_KM | Number |  |  |  |  |  |  |

Table structures:
Score table - correct field names and data types, Race_No set as primary key 1 mark
Club table - correct field names and data types, Club_Code set as primary key 1 mark Group table correct field names and data types, Group_Code set as primary key 1 mark

Step 21 - EVIDENCE 6 - relationships:


1-to-Many relationship between Club.Club_Code and Score.Club_Code fields 1 mark 1-to-Many relationship between Group.Group_Code and Score.Cat_Code fields 1 mark

Step 24 - EVIDENCE 7:


Step 25 - EVIDENCE 8:

\& Winning Club Members.pdf
Step 28 - EVIDENCE 9:



[^0]:    Name, centre number, candidate number

