## Cambridge IGCSE ${ }^{\text {TM }}$ (9-1)

INFORMATION AND COMMUNICATION TECHNOLOGY ..... 0983/22
Paper 2 Practical Test A

## Published

Students did not sit exam papers in the June 2020 series due to the Covid-19 global pandemic.
This mark scheme is published to support teachers and students and should be read together with the question paper. It shows the requirements of the exam. The answer column of the mark scheme shows the proposed basis on which Examiners would award marks for this exam. Where appropriate, this column also provides the most likely acceptable alternative responses expected from students. Examiners usually review the mark scheme after they have seen student responses and update the mark scheme if appropriate. In the June series, Examiners were unable to consider the acceptability of alternative responses, as there were no student responses to consider.

Mark schemes should usually be read together with the Principal Examiner Report for Teachers. However, because students did not sit exam papers, there is no Principal Examiner Report for Teachers for the June 2020 series.

Cambridge International will not enter into discussions about these mark schemes.
Cambridge International is publishing the mark schemes for the June 2020 series for most Cambridge IGCSE ${ }^{\text {TM }}$ and Cambridge International A \& AS Level 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.

## Guide To Bikepacking


videos are posted online and some competitors post updates on social media. Many participants do not enter a bikepacking race to win, but merely to challenge themselves and to take bike touring to a more intense level.

## Race Rules

All races follow a general set of guidelines that are de to make the racing fair for all participants. Events may hav own specific rules but the standard guidelines that apply to a are:
$\checkmark$ full course must be completed from start to finish
$\checkmark$ no outside support permitted
$\checkmark$ all forward travel over land must be human powered
$\checkmark$ pre-booking accommodation or food/supply caching on

## Image

Image inserted in correct paragraph
1 mark
Resized to 4 cm wide with aspect ratio maintained Aligned to top of text and right margin, text wrapped 1 mark

Conventional cycle touring uses racks and panniers to carry equipment. This adds considerable weight to the bike, making it difficult to push and an uncomfortable ride on off-road Bikepacking uses a new
the trail is not allowed
$\checkmark$ drafting is prohibited
$\checkmark$ riders must carry a GPS tracker
$\checkmark$ riders must have insurance and wear a helmet
$\checkmark$ front and rear lights are mandatory
$\checkmark$ riders must wear high visibility clothing and gear at night
$\checkmark$ riders must know, respect and observe local laws.
Bikepacking should have minimal impact on the landscape and people living in it. The 'Leave No Trace' ethics offer a sound common sense approach to preserving the natural beauty of the land which should look untouched and be left as it was found.

## Equipment

Almost every mainstream bike manufacturer now at least one 'adventure bike' or 'bikepacking rig'. A typical

Page break

Applied to correct data
Tick $\checkmark$ shapd 1 mark
Bullets indented 1.5 cm from left margin, Hanging indent, single line, Opt space between 1 mark

Limited space encourages a lightweight approach which of a bike. A lighter bike less of a chore and the ss wear and tear on pe less fatigued. In turn le to ride, whatever the

main load carriers and frame pack. it the front of the ly. The seatpack er items in the pically, a full set of acity of around 32
setup consists of a lightweight mountain bike with an efficient, ultralight gear kit for carrying minimal supplies. Advances in technology have made ultra-light camping equipment such as titanium stoves more affordable. The kit is packed or strapped onto the bike so it is balanced and secure.

Page break removed above Equipment 1 mark

## Navigation

Bikepacking lends itself particularly well to touring with a handlebar-mounted GPS device loaded with pre-planned routes. Singletrack trails are often unmarked or easily missed and a GPS mapping device will provide directional guidance negating the need to stop and consult a map at every junction. Alternatively, a pu have the means to keep it opular way of saving and information needed to stay on track and enable riders to plan a route, navigate whilst riding and review how well a trip went. They can be found online, swapped on forums, or created and shared. A back-up compass and map are always recommended in case the electronics fail. Preparation is key. As you become more
adventurous you will be exploring further away from support and help.

## Camping

It is often illegal to camp in the wild without the landowner's permission. Many landowners and farmers will be happy to allow camping if they are asked, but access laws must always be respected.

[^0]
## Results By Category



```
Select records (59):
Event_Rank is <=5 1 mark
Ability excludes Novice 1 mark
```

| Specified fields, correct order |  |
| :--- | :--- |
| Sort descending on Category then ascending on Event_Rank | 1 mark |
| Portrait, one page wide, all base fields, no truncation | 1 mark |
| Name, centre number, candidate number in footer - every page | 1 mark |

Name, Centre number, candidate number

| First_Name | Last_Name | Club_Name | Category | Gender | Event_Rank |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Noah | Thomas | Tachyon Flyers | Master | Male | 4 |
| Jay | Lemiski | Chain Breakers | Master | Female | 5 |
| Betsy | Owen | Pedal Blazers | Junior | Female | 1 |
| Dominic | Kent | Tawara Falcons | Junior | Male | 1 |
| Michael | Hurford | Mountain Spinners | Junior | Male | 2 |
| Liann | Mueller | Imperial Land Cruisers | Junior | Female | 2 |
| Shauna | Macdonald | Chain Breakers | Junior | Female | 3 |
| Richard | Armstrong | Cyclops Flyers | Junior | Male | 3 |
| Robin | Belanger | Cycle Bunnies | Junior | Male | 4 |
| Nicole | Broadbent | Tubular Belles | Junior | Female | 4 |
| Aidan | Langford | Bike Ways | Junior | Male | 5 |
| Anna-Gabrielle | Partington | Ragwheel Racers | Junior | Female | 5 |
| Denise | Magsamen | Mountain Spinners | Grand Veteran | Female | 1 |
| Cody | Pennington | Saddle Rollers | Grand Veteran | Male | 1 |
| Erin | Marley | Tubular Belles | Grand Veteran | Female | 2 |
| David | Caskey | Camel Hybrid Spinners | Grand Veteran | Male | 2 |
| Bradley | Adomonis | Camel Hybrid Spinners | Grand Veteran | Male | 3 |
| Chantell | Leishman | Cyclops Flyers | Grand Veteran | Female | 3 |
| Kristin | Buchanan | Sprocket Rockets | Grand Veteran | Female | 4 |
| Phil | Kourline | Mountain Spinners | Grand Veteran | Male | 4 |
| Lars | Wiebe | Sprocket Rockets | Grand Veteran | Male | 5 |
| Leigh | Micklethwaite | Bike Ways | Grand Veteran | Female | 5 |
|  |  | Number of racers |  | 59 |  |


| Calculates correct count of records 59 |  |
| :--- | :--- |
| Displayed as integer, positioned under Gender column | 1 mark |
| Accurate label entered to left | 1 mark |

Name, Centre number, candidate number

| Calculated field |  |
| :--- | ---: |
| Heading 100\% accurate | 1 mark |
| [Avg_MPH $]^{*} 0.95$ calculated, correct values | 1 mark |
| Displayed to 2 dp | 1 mark |

## Speed Penalties Applied



Name, centre number and candidate number

## Tawara Bike Adventures

Merge Fields inserted - <text> replaced - correct position and spacing, punctuation maintained «Title» | «Last_Name» | «Street» | «Town» | «Postcode» |

Date as Postmark
${ }^{2}$ Titlen aLast Namen
${ }^{4}$ Streeto
eTown:
${ }_{4}$ PPostcoden
Dear Customer
I am pleased to confirm your holiday booking with Tawara Bike Adventures. The price paid includes all accommodation costs, ocoked breakfasts, packed lunches and all road transfers during the holiday. We limit each group to eight members with two guides, giving a 4-1 client to guide ratio. Travel insurance, personal equipment, evening meals and incidental expenditure such as bike spares and laundry are not included in the holiday price.

Your final payment is due six weeks before departure. Please thoroughly check the booking detals below and make sure you have the correct insurance and equipment for your trip. If you have any queries at al, p Master document printed, name replaces text,
Yours sinceraly Name, centre number, candidate number in the header

A Candidate
Personal Holiday Advisor
BOOKING CONFIRMATION

| Tour Details: |  |
| :---: | :---: |
| Number of People: | People |
| Date: | aDoparturer |
| Duration: | aDuration* |
| Price Per Person: | EPrice PPs |

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Tawara Bike Adventures


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Tawara Bike Adventures

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Task 6 - Presentation

06/01/2019


## Organisation

- location - North America, United States of America
- start - Oceanside Pier, California
- finish - City Dock Annapolis, Maryland
- maximum duration - solo racers 12 days, team racers 9 days
- ascent -51816 metres


## Chart

Line chart created using correct data, year labels visible 1 mark
Chart in correct position, left of bullets, all data fully visible, no overlap 1 mark
Chart title Solo Average Speed Records 100\% accurate 1 mark
Value axis displays label Miles Per Hour 1 mark
Y -axis displays minimum 6, maximum 22 1 mark
Y -axis increments set at 4 1 mark
Value data labels above each data point 1 mark
Value data labels displayed to 2 decimal places 1 mark
Legend displays Solo Female/Solo Male 1 mark
All slides printed with 2 slides to page 1 mark


* winning competitors complete the course in just over a week
- fastest ever male racer average speed 16.42 mph in 7 days 15 hours
- fastest ever female racer average speed 13.22 mph in 9 days and 4 hours


## Entry

- open to professional and amateur racers
- participants range in age from 13 to 75
- solo, 2,4, and 8-person relay teams
- solo racers must qualify to compete


## The Route

- crosses 12 states from the west coast to the east coast
- traverses three major mountain ranges (Sierra, Rocky and Appalachian)
- crosses the Great Plains and four of America's longest rivers (Colorado, Mississippi, Missouri and Ohio)
- passes through iconic American landmarks (Mojave and Sonoran Deserts, Monument Valley, Great Plains and Gettysburg)


## EVIDENCE DOCUMENT



Step 5 - EVIDENCE 3

## Styles - ×

|  |  | Style list |  |
| :---: | :---: | :---: | :---: |
| EePoty | $\uparrow$ |  |  |
| ERSubhead | 1 | Styles correctly created, named and saved | 1 mark |
| BP.Sutitie | $\square$ | BP-Subtitle, BP-Subhead, BP-Table |  |
| sp-Table | T |  |  |
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| Horme | 7 |  |  |

## Step 6 - EVIDENCE 4



## Step 19 - EVIDENCE 5



Step 20 - EVIDENCE 6


## Step 22- EVIDENCE 7





[^0]:    BP-Body matches style seen in EV2 1 mark
    sans-serif, 11 pt , justified with first line indent at 1.5 cm , single line, 0 before, 6 pt after
    Doc complete/paras intact, A4, landscape, margins 2 cm , no large gaps, columns aligned at top,
    no widows/orphans, table and list not split, no blank pages, 6 pt after bullets and table

