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Class      Index Number

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# METHODIST GIRLS' SCHOOL

Founded in 1887



## PRELIMINARY EXAMINATION 2025 Secondary 4

### HUMANITIES (Geography)

Wednesday  
27 August 2025

**2260/02**  
1 hour 45 minutes

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Candidates answer on the question paper.

Additional Materials: Insert

#### READ THESE INSTRUCTIONS FIRST

Write your class, index number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

#### Section A

Answer Question 1 **and** Question 2.

#### Section B

Answer **either** Question 3 **or** Question 4.

The Insert contains additional resources referred to in the questions.

The number of marks is given in brackets [ ] at the end of each question or part question.

## Section A

Answer Question 1 and Question 2.

### 1 Cluster 1: Geography in Everyday Life

- (a) Study Fig. 1.1 (Insert), which shows a photograph of a trail being used by visitors in Sungei Buloh Wetland Reserve.

With reference to Fig 1.1, state how local communities and nearby nature areas are dependent upon each other.

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[1]

- (b) Study Fig. 1.2 below, which is a news report on a hornet attack on visitors to Sungei Buloh Wetland Reserve in July 2024.

#### News Report on a Hornet Attack at Sungei Buloh

Sungei Buloh Wetland Reserve is Singapore's first and only wetland reserve, and is a haven for migratory birds and a wide variety of flora and fauna. It's a popular spot for nature lovers and those seeking a tranquil escape from the city, offering unique experiences like exploring mangrove forests and spotting wildlife.

An area inside the Sungei Buloh Wetland Reserve has been cordoned off from the public, following a hornet attack on July 14 that led to five people being taken to hospital.

In a post uploaded onto Chinese social media site Xiaohongshu, a passer-by, who said that he often visits the wetland reserve, said he saw four ambulances and a row of people applying ice packs on their heads. Mr Leslie Chong, sales director of System Pest Control Services, told ST that hornets attack when they are provoked or when people are too close to their nest, causing the hornets to feel threatened. Mr Lim said that hornets are large-bodied wasps that live in large colonies that build their nests using plant fibres and, like honey bees, will "readily sting" to defend their hives. In natural environments, hornets may build their hives on trees, within low-lying shrubs, and even on the ground, he added.

**Fig 1.2**

Using Fig. 1.2, explain why conflicts can occur in spaces where people visit nature.

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(c) Study Fig. 1.3 (Insert), which shows a map of the Sungei Buloh Wetland Reserve

- (i) With reference to Fig. 1.3, explain how natural areas such as Sungei Buloh Wetland Reserve provides regulating and supporting ecosystem services.

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- (ii) A group of students are keen to investigate why visitors to Sungei Buloh Wetland Reserve choose to visit the reserve, and the main attractions and activities visitors participate in.

The students designed a survey to find out the reasons visitors chose to visit the reserve.

Using Fig 1.3, choose **two** locations that the students can administer the survey and explain why these locations are suitable.

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- (iii) Suggest **two** survey questions that the students can include in their survey that can provide meaningful data for their research.

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[Total: 14]

## 2 Cluster 2: Tourism

- (a) Study Fig. 2.1 (Insert), which shows a world map of the top 30 international tourism destinations from 2000 to 2016.
- (i) Using Fig. 2.1, describe the global distribution of the top 30 international tourism destinations in the world in 2016.

[3]

- (ii) With reference to Fig. 2.1, explain how ability to travel has led to rapidly growing tourist destinations.

.....[3]

- (b) Study Fig. 2.2 below, which is a news report on the state of tourism of Ha Long Bay, a famous tourist destination in Vietnam.

### News Report on Ha Long Bay, Vietnam

Vietnam's Ha Long Bay is losing its famous turquoise hue as pollution and over-development threaten its wildlife and picture-perfect image. The UNESCO site is one of Vietnam's most popular tourist destinations, with more than seven million people visiting its blue-green waters and rainforest-topped limestone islands last year.

But the bay's popularity, and the subsequent rapid growth of Ha Long City—now home to a cable car, amusement park, luxury hotels and thousands of new homes—have severely damaged its ecosystem. The surrounding town is already heavily developed, with docks and luxury apartments clogging the shoreline.

Last month pictures were published in state media of an enormous construction site running through the waters of a neighboring bay, sparking outrage among conservationists. Conservationists estimate there were originally around 234 types of coral in the bay—now the number is around half. There is also a huge problem with both human and plastic waste.

On Thursday tourists queued up for seats in a boat-plane to wing their way over the bay and see its more than 1,900 islands from the air. "I was actually expecting for more blue waters in Vietnam," said Anete Cimbule from Latvia.

**Fig. 2.2**

Using Fig 2.2, explain why Ha Long Bay can be placed at the stagnation stage of the tourism destination cycle.

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How far do you agree with this statement? Explain your answer.

[illegible]

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[Total: 18]

## Section B

Answer **either** Question 3 **or** Question 4.

### 3 Cluster 3: Climate

- (a)** Study Fig. 3.1 (Insert), which shows coastal cities vulnerable to climate-related hazards.

(i) Using Fig. 3.1, describe the global distribution of coastal cities vulnerable to climate-related hazards.

[4]

- (ii) Suggest why coastal cities are likely to be more exposed to climate-related hazards and describe the hazards associated with this exposure.

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- (b)** Study Fig 3.2 (Insert), which shows the estimated potential reduction in carbon dioxide emissions by 2050.

With reference to Fig 3.2, evaluate the strategies for mitigating climate change.

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(c) With the aid of a diagram, explain the formation of relief rain.

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**(a)** Study Fig. 4.1 (Insert), which shows a diagram of a plate tectonic landform.

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**(d)** Evaluate the risks and benefits of staying in volcanically active areas.

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Additional page

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### Copyright Acknowledgements

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| Question 1 | Fig. 1.1 | © <a href="https://www.nparks.gov.sg/visit/parks/park-detail/sungei-buloh-wetland-reserve">https://www.nparks.gov.sg/visit/parks/park-detail/sungei-buloh-wetland-reserve</a>                                                                                   |
| Question 1 | Fig. 1.2 | © adapted:<br><a href="https://www.straitstimes.com/singapore/hornet-attack-at-sungei-buloh-sends-5-people-to-hospital-area-cordoned-off">https://www.straitstimes.com/singapore/hornet-attack-at-sungei-buloh-sends-5-people-to-hospital-area-cordoned-off</a> |
| Question 1 | Fig. 1.3 | © <a href="https://www.nparks.gov.sg/docs/default-source/parks-docs/sungei-buloh-wetland-reserve/sbwr-map.pdf">https://www.nparks.gov.sg/docs/default-source/parks-docs/sungei-buloh-wetland-reserve/sbwr-map.pdf</a>                                           |
| Question 2 | Fig. 2.1 | © <a href="https://factsmaps.com/top-30-most-visited-countries-by-international-tourist-arrivals/">https://factsmaps.com/top-30-most-visited-countries-by-international-tourist-arrivals/</a>                                                                   |
| Question 2 | Fig. 2.2 | © <a href="https://www.straitstimes.com/asia/se-asia/unesco-to-study-development-risks-to-vietnams-ha-long-bay">https://www.straitstimes.com/asia/se-asia/unesco-to-study-development-risks-to-vietnams-ha-long-bay</a>                                         |
| Question 3 | Fig. 3.1 | © <a href="https://www.c40.org/what-we-do/scaling-up-climate-action/water-heat-nature/the-future-we-dont-want/sea-level-rise/">https://www.c40.org/what-we-do/scaling-up-climate-action/water-heat-nature/the-future-we-dont-want/sea-level-rise/</a>           |

- Question 3 Fig. 3.2 © adapted: IPCC AR6 Mitigation Report (2022);  
<https://www.iea.org/data-and-statistics/charts/cumulative-emissions-reduction-by-mitigation-measure-in-the-net-zero-scenario-2021-2050>
- Question 4 Fig. 4.1 © <https://www.shutterstock.com/image-illustration/plate-tectonics-tectonic-processes-interactions-plates-1090142183>
- Question 4 Fig. 4.2 © <https://uwiseismic.com/volcanoes/geothermal-energy/>
- Question 4 Fig. 4.3 © <https://www.statista.com/chart/20482/>