iGeo 2021 MMT F2

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1. In what country were these photographs taken?

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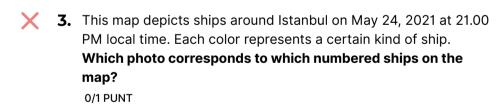
A Bolivia

B Ecuador

C Paraguay

✓ D Peru

2. In which environments is honeycomb weathering most abundant?

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A Environments where lichen occurs, such as tundra or alpine areas.

B Environments with temperatures around 0°C such as taiga and tundra

✓ C Salt-rich environments such as deserts and coastal zones

D Monsoon dominated environments such as tropical savannas and pampas

3. This map depicts ships around Istanbul on May 24, 2021 at 21.00 PM local time. Each color represents a certain kind of ship. **Which photo corresponds to which numbered ships on the map?**

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A **photo A** = ship 1, **photo B** = ship 2, **photo C** = ship 3

B **photo A** = ship 1, **photo B** = ship 3, **photo C** = ship 2

C **photo A** = ship 2, **photo B** = ship 1, **photo C** = ship 3

✓ D **photo A** = ship 2, **photo B** = ship 3, **photo C** = ship 1

4. ✗ **Which of the following is found in all the products shown in the image?**

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A corn

✓ B palm oil

C petroleum

D wheat

5. ✗ Two news items on extreme heat in North America and floods in Germany and Belgium. **How are these two events directly related?**

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A formation of a heat dome

B human-induced climate change

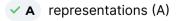C poor adaptation strategies

✓ D position of the jet stream

6. ✗ **Which body of water can geologically be considered as a foreland basin?**

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A Mediterranean Sea (A)

B Red Sea (B)

✓ C Persian Gulf (C)

D Gulf of Aden (D)

7. ✗ **To which part of this destination image model do travel influencers on Instagram* best correspond?**

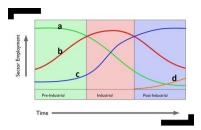*Instagram is a social media platform.

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✓ A representations (A)

B experience (B)

C own identity (C)

D feedback (D)

8. **A doctor's occupation is included in which line in this version of the Clark-Fisher Model?**

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A green (a)
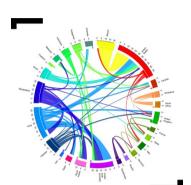
B red (b)

✓ C blue (c)

D orange (d)

9. Plot of migration flows between world's top 25 sending and receiving countries in 2005-2010. Axis scale in 100,000s.

The countries that made the highest contribution to outwards migration in 2005-2010 are currently classified by the United Nations as:

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A low income

✓ B lower-middle income

C upper-middle income

D high income

10. Glacial-latte-art. **Which type of glacier is shown in this "Earth-cappuccino"?**

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A cirque glacier

✓ B piedmont glacier

C tidewater glacier

D valley glacier

11. **What type of submarine farming does this aerial photo show?**

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A coral

B oysters

C salmon

✓ D sea weed

12. Does it rain? Does it pour?

Does it rain? Does it pour?
Does an area get just a few heavy storms, or does it pour all the time?

The map shows rainfall in four categories (A-D):
- it rains and it pours
- it rains a lot but usually doens't pour
- it usually doesn't rain but when it does, it pours
- it doesn't rain or pour

Which color represents the category 'it usually doesn't rain but when it does, it pours'?

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A A

✓ B B

C C

D D

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13. This cartoon stresses the importance of:

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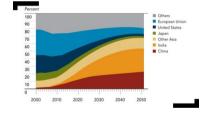
A livability in urban areas

✓ B CO$_2$-emissions and the climate pandemic

C worldwide availability of COVID-vaccines

D local production value in a globalising world

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14. The figure shows the shares of a trend (2000-2050). **Which trend is it?**

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A global renewable energy shares

✓ B global middle-class consumption

C global food shortages

D global fertility-rate changes

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15. Vermeer painted The Astronomer and The Geographer in the 17th century. **Which one is more likely The Geographer and why?**

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A The left because of the interest in the Earth's movement.

✓ B The left because of the dividers used for measuring distances.

C The right because of the presence of the maps.
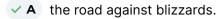
D The right because of the celestial globe.

16. These fences on the edge of the road are meant to protect:

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- ✓ **A** the road against blizzards.
- **B** animals against road accidents.
- **C** crops against pollution
- **D** traffic against the fog

17. Name the phenomenon shown here and identify what happens next.

0/1 PUNT

- **A** **Cyclogenesis**, the two low pressure systems will merge into one system
- **B** **Cyclogenesis**, the two low pressure systems will circle each other clockwise
- ✓ **C** **Fujiwhara effect**, the two low pressure systems will circle each other clockwise
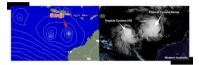- **D** **Fujiwhara effect**, the two low pressure systems will merge into one system

18. What determines the difference between area A and area B in this true color satellite image?

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- **A** mass movements
- ✓ **B** forest fires
- **C** geology
- **D** ground water

19. Which layer of this podzol soil will have the highest Loss-On-Ignition-value?

0/1 PUNT

- **A** soil layer A
- **B** soil layer B
- ✓ **C** soil layer C
- **D** soil layer D

20. In both pictures the grass strip has been replaced by rocks. **To what purpose are grass strips replaced by rocks in these cities?**
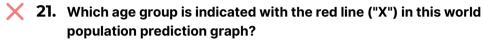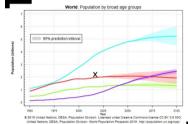
0/1 PUNT

A To improve infiltration rates to cope with more intensive rainfall.

B To get local dwellers more involved in their local geology.

C To reduce reflection of sun rays and thereby reduce the urban heat island.
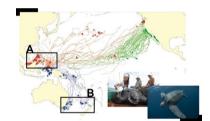
✓ D To prevent unsheltered people to pitch their tents.

21. **Which age group is indicated with the red line ("X") in this world population prediction graph?**

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✓ A 0-14 years

B 15-24 years

C 25-64 years

D 65+

22. The map shows migration patterns for different types of Leatherbacks (sea turtles). Both species need the same sea water temperature for breeding. **Which statement about area A and B is true?**
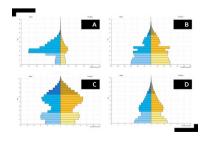
0/1 PUNT

A The orange species is **breeding** in area A in July and the blue species is **breeding** in area B in July.

✓ B The orange species is **breeding** in area A in July and the blue species is **feeding** in area B in July.

C The orange species is **feeding** in area A in July and the blue species is **breeding** in area B in July.

D The orange species is **feeding** in area A in July and the blue species is **feeding** in area B in July.

23. **Which of these population graphs fits a country with a large influx of labor migration?**

0/1 PUNT

✓ A graph A

B graph B

C graph C

D graph D

24. The figure shows simplified maps for transport geography of three regions.

Which region is represented by which simplified map?

0/1 PUNT

A **region A** = Sub-Sahara Africa │ **region B** = Western Europe │ **region C** = Oceania

B **region A** = Central America │ **region B** = South America │ **region C** = Middle East

C **region A** = Middle East │ **region B** = Oceania │ **region C** = Mediterranean

✓ **D** **region A** = North America │ **region B** = Western Europe │ **region C** = East and Southeast Asia

25. **What concept applies best to these images?**

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A bimodal transportation

✓ **B** de-industralisation

C gentrification

D urban blight

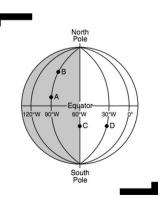**26.** **What does this map illustrate?**

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A At-risk health care

✓ **B** At-risk languages

C At-risk local economies

D At-risk religions

27. **State the solar time at location D if the solar time at location C is 6:00 a.m.**

0/1 PUNT

A 4:00 a.m.

B 5:00 a.m.

C 7:00 a.m.

✓ **D** 8:00 a.m.

28. **Left map:** satellite-image of Barcelona
Right map: a Twitter*-based heat map of Barcelona (Spain). The red dots indicate photos taken by GROUP 1, while the blue dots indicate photos taken by GROUP 2 and the yellow dots might be either.
*Twitter is a social media platform.

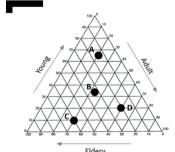**Based on data from Twitter, this map shows how Barcelona is perceived by:**

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A   male and female dwellers of Barcelona

✓ B   local dwellers and tourists

C   poor and rich dwellers of Barcelona

D   students (16-25) and eldery (65+).

29. Once the natural resource phosphate got exhausted on the Pacific island Nauru, the economy became worse than it was before discovery of the resource. One cause of this so-called 'Dutch disease' is the unemployed manpower.

What is seen to be the second cause of the 'Dutch disease'?

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A   As a low-lying country, Nauru suffered increase subsidence by mining

B   Increasing wealth diseases (e.g. heart attacks and obesity-levels up to 71%), decreasing productivity.

C   The island inherits an import-oriented infrastructure from the mining industry.

✓ D   The boom period has either retarded or killed non-phosphate industries.

30. **Which location in this triangular graph fits a country in phase 5 of the Demographic Transition Model?**
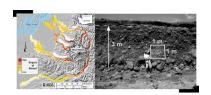
0/1 PUNT

A   A

B   B

C   C

✓ D   D

31. To which hazard do both resources relate?

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- A glacial melt
- ✓ B lahar
- C lava flow
- D pyroclastic flow

32. A geographer is doing research using colored water. **What coastal phenomenon is this geographer doing research on?**
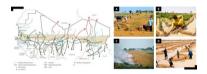
0/1 PUNT

- A coastal abrasion
- B longshore drift
- ✓ C rip currents
- D wave refraction

33. Which image relates to the shaded area on the map ?
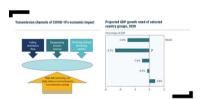
0/1 PUNT

- ✓ A A
- B B
- C C
- D D

34. The economy of which group of countries is impacted most **(-4.7%) following this "model of transmission channels of COVID-19 economic impact"?**

0/1 PUNT

- A least developed countries
- B BRICS countries
- ✓ C small island developing countries
- D G7 countries

35. **Left:** street map of Buenos Aires (Argentina)
Right: city street orientation radials of four different cities.

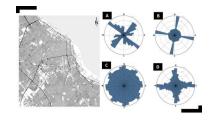**Which city street orientation radial corresponds with Buenos Aires?**
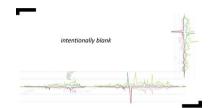
0/1 PUNT

- ✔ **A** A
- **B** B
- **C** C
- **D** D

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36. **This pair of graphs shows which worldwide distribution?**

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- **A** Change in salinity (1970-1990).
- **B** Change in biomass (1960-2020).
- ✔ **C** Change in surface area of waterbodies (1980-2010).
- **D** Change in average surface temperature (1990-2020).

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37. 'The Product Space' depicts the world wide connectedness between products, based on the similarities of know-how required to produce them.
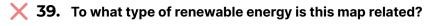

The exports of which country are marked with colored dots in the graph?
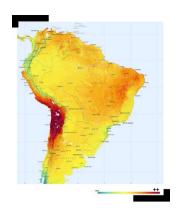
0/1 PUNT

- **A** Madagascar
- **B** Malta
- ✔ **C** Mexico
- **D** Myanmar

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38. **Which map is sized after worldwide refugee destinations in 2018?**

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- **A** map A
- ✔ **B** map B
- **C** map C
- **D** map D

✗ 39. **To what type of renewable energy is this map related?**

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A   geothermal energy

B   hydro energy

✓ C   solar energy

D   wind energy

✗ 40. Earthmap in a pond. **Where is Istanbul located in this world map?**

0/1 PUNT

✓ A   location A

B   location B

C   location C

D   location D