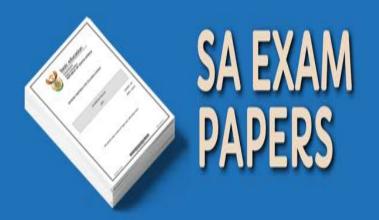


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FINAL



KWAZULU-NATAL PROVINCE

EDUCATION REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GWDE12

GEOGRAPHY

MARKING GUIDELINE

COMMON TEST

MARCH 2022

MARKS: 60

N.B. This marking guideline consists of 5 pages.

QUESTION 1

1.1

- 1.1.1 high land temperatures ✓ presence of tropical cyclone ✓ presence of heat/thermal low ✓ South Atlantic High and South Indian High have moved further south ✓ (ANY ONE)
- 1.1.2 gentle ✓
- 1.1.3 South Atlantic high ✓ and Coastal low ✓
- 1.1.4 cold front ✓
- 1.1.5 15 knots ✓ (no units, no marks)

 $(6 \times 1)(6)$

1.2

1.2.1 Wind speeds in excess of 230 km/h, approacting trees, breaking windows, snapping power lines and causing extensive flooding√ [Concept]

 $(1 \times 1)(1)$

1.2.2 Cyclone tracked for a long period of time in the warm waters/Sea surface temperature above 26.5 °C of the Indian Ocean that was ideal for promoting high rate of evaporation ✓ Friction over the large sea track was minimal/less friction over the ocean, assisting rising air (convection) ✓ ✓ The water vapour content over the ocean is greater, containing latent heat and this formed the trigger for the full development of the cyclone ✓ ✓ (ANY TWO)

 $(1 \times 2)(2)$

- 1.2.3 Due to present wind shear and dry air ✓✓
 Due to friction over the land ✓✓
 (ANY ONE)
 (1 x 2)(2)
- 1.2.4 Information is received immediately and can be used to warn people ✓✓
 Information can be monitored and evacuation plans can be devised, especially for people in low in low lying areas. ✓✓
 Can take images of large inaccessible areas. ✓✓
 The intensity of the storm can be monitored ✓✓
 Information can be used to determine wind speed, temperature, wind direction ✓✓
 Can be used to predict the path ✓✓

 $(1 \times 2)(2)$

NB Question 1.2.4 has been cancelled due to technical reasons.

(ANY ONE)

1.2.5 Stock up on canned food and water supplies ✓✓ Organize a first aid kit ✓✓ Have batteries for portable radios lamps and torches ✓✓ Move cattle and other stock to higher ground ✓✓ Place sandbags along rivers and coastal areas to reduce the impact of flooding 🗸 🗸 Put wooden shutters on windows and advise people to stay away from doors and windows√✓ Devise evacuation plans especially for people in low lying areas ✓✓ There must be rescue teams to rescue in low lying areas ✓✓ A good forecasting system to predict the path of the tropical $(4 \times 2)(8)$ cyclone and Issue warnings√√ (ANY FOUR) [15] (Must include at least one on both precautionary and management) 1.3 1.3.1 An area of higher temperatures in an urban area compared to lower temperatures in the suburban and rural surrounding ✓✓ $(1 \times 2)(2)$ [Concept] 1.3.2 CBD ✓ $(1 \times 1)(1)$ 1.3.3 Concrete in urban areas is able to store three times more heat than the same volume of soil or vegetation < Concrete absorbs heat slowly during the day and releases it slowly at night thus raising temperatures considerably $\checkmark\checkmark$ Cities contain a large number of tarred streets which absorbs heat, giving rise to high temperatures < Buildings are made up of glass and will reflect and deflect heat between buildings thus increasing temperature. ✓✓ $(1 \times 2)(2)$ (ANY ONE) $(1 \times 1)(1)$ 1.3.4 Global warming/greenhouse effect/acid rain ✓ 1.3.5 During the night the air is cooler ✓ Cooler air heavier and denser thus more subsidence ✓ Pollution dome pushed lower down ✓ During the day the air is warmer ✓ Warmer air lighter and less dense and rises ✓ $(1 \times 1)(1)$ Pollution dome lifts higher up ✓ (ANY ONE) 1.3.6 Taller chimneys/stacks to release pollutants ✓ ✓ Limit industriai activities at night time v'v' Use cleaner fuels in engines ✓✓ Legislation and fines to reduce pollution ✓✓ $(1 \times 2)(2)$ Greenbelt development ✓✓ (ANY ONE) [9]

TOTAL: 28

QUESTION 2

(6 x 1) (6)
(1 x 2)(2)
(1 x 2)(2)
stant 1 (2 x 2) (4)
(2 x 2)(4) [12]

Steepness of slope allows easy flow of the water into a dam ✓✓ With less deposition/sediments in the upper course the dam

[12]

TOTAL: 30

 $(2 \times 2)(4)$

GRAND TOTAL: 58

NB: The learner mark must be divided by 58 and be multiplied by 60 e.g. (<u>learner mark</u> X 60)
58

the dam ✓✓

(ANY TWO)

capacity will be higher

