

**Part One:** Say 'True' for the correct statement and 'False' for the wrong one. (1 point each).

1. The spatial distribution of temperature in Ethiopia is primarily determined by latitude.
2. The main wildlife concentrations of Ethiopia occur in its Northern and Western parts.
3. All demographic rates and life expectancies are high and low for developed countries respectively.
4. Weathering refers to the process of disintegrating and transforming the parent material into soil.
5. Tropical temperature has full spatial coverage in Ethiopian lowlands.

**Part Two:** Match the Agro-ecological zones under column 'A' with their correct description under column 'B' (1 point each).

A

B

1. Wurch
2. Kola
3. Woyna Dega
4. Dega
5. Bereha

- A. The length of growing period is between 211 and 365 days
- B. Mean annual Temperature ranges from 10°C to 20°C
- C. Elevation ranges between 2,300m & 3,300m above sea level
- D. Elevation range between 500m and 1,500m above sea level
- E. The length of growing period is between zero and 45 days
- F. The Mean annual Temperature is from 15°C to 25°C
- H. Elevation ranges between 1,500m & 2,300m above sea level

**Part THREE:** Fill in the blank space with an appropriate words or phrases. (1 point each)

Assume that Mr. 'X' is a resident of Harar city. He has left for field work to Bale at time of national census and counted there. Such enumeration system refers to \_\_\_\_\_  
\_\_\_\_\_ is an astronomical event that has happened when the direct rays of the sun strikes the earth right at its center.

3. \_\_\_\_\_ refers erosion by friction due to water containing sediment or wind carrying debris.
4. \_\_\_\_\_ refers to the process of weakening and subsequent disintegration of rock by plants, animals and microbes.

5. A geographic feature that separates one drainage basin from the other refers \_\_\_\_\_

**Part FOUR: Choose the best answer among the given alternatives. (1 point each).**

1. Identify the wrong statement about the adiabatic temperature changes?
  - A. The process does not involve heat exchange from outside sources ✓
  - B. The temperature change of a parcel of air is resulted due to expansion & compression ✓
  - C. The heating & cooling processes occur due to compression & expansion respectively
  - D. The temperature change of a parcel of air occur due to heat exchange with the atmosphere
2. Which one of the following is not true about summer rainfall season in Ethiopia?
  - A. Most of the rain is caused by south easterly winds ✓
  - B. The ITCZ is in the northern hemisphere
  - C. High pressure cell develops on Atlantic and Indian oceans
  - D. It has a wide spatial coverage in the country ✓
3. Identify the wrong combination of the major rain bearing winds and their respective seasons in Ethiopia?
  - A. North Easterlies → Summer rainfall ✓
  - B. North Easterlies → Winter rainfall
  - C. South Easterlies → Autumn and spring rainfall
  - D. South Westerlies & South Easterlies → Summer rainfall



4. \_\_\_\_\_ refers to the process of assisting the normalization of a forest ecosystem that has been degraded, damaged or destroyed.
- A. Rehabilitation
  - B. Sustainable forest management
  - C. Protection
  - D. None
5. Identify the correct statement?
- A. Spatial distribution is the major emphasis of population study in Geography
  - B. Effective socioeconomic development & administration doesn't necessarily depend on population data
  - C. Population data has nothing to do with establishing voting district boundaries
  - D. Demography can not necessarily influence production, distribution & consumption
6. The wrong information or inaccurate population data which is usually observed in census could not be attributed to;
- A. Suspicion and ignorance of the census
  - B. Surveying all areas, be it accessible or inaccessible
  - C. Poor technical skills of the enumerators
  - D. Unstable administration
7. Identify the wrong statement among the given alternatives?
- A. Population growth or decline is the cumulative effect of fertility, mortality & migration
  - B. Fertility & mortality remains the principal determinants of population growth in Ethiopia
  - C. International migration significantly determines population growth in Ethiopia
  - D. Many developing countries are characterized by a higher proportion of youth



8. Which one is false about the demographic variables in Ethiopia?
- A. Urban areas have lower birth and death rates than rural areas
  - B. Rural women have a higher numbers of children than urban women
  - C. Both fertility and mortality are generally showing a declining trend
  - D. Women have lower life expectancy than men
9. Which of the following is the largest in terms of annual flow of water and area coverage?
- A. Southeastern Drainage System
  - B. Rift Valley Drainage System
  - C. Western Drainage System
  - D. Inland Drainage System
10. Which one of the following topographical structure determines the general patterns of major Ethiopian river basins?
- A. The in -ward sloping of the Western and South eastern plateaus
  - B. The out-ward-sloping escarpments of the rift valley
  - C. The faults and joints of most river courses
  - D. All of the above
11. Identify the wrong statement about the characteristics western drainage system?
- A. All rivers from this system do not flow westward ✓
  - B. All rivers in this system do not terminate at Mediterranean sea ✓
  - C. It doesn't deliver majority of the annual water discharge of the country ✓
  - D. Most of the catchment area is rough and undulated resulted by erosion
12. Identify the wrong choice about the characteristics of majority of Ethiopian rivers?
- A. A low highland origin
  - B. Seasonal fluctuation ✓
  - C. Rapids and waterfalls ✓
  - ← D. Navigation

13. Which of the following is not a major problem associated with the use of Ethiopian rivers for generation of hydroelectric power?
- A. Seasonal flow fluctuations
  - B. Climate change and variability
  - C. Sedimentation
  - D. Steep profile
14. The most southerly circle of latitude on the earth at which the sun appears directly overhead at its culmination is named as;
- a. The arctic circle
  - b. The tropic of cancer
  - c. The Antarctic Circle
  - d. The tropic of Capricorn
15. Which of the following is **not** determining factor of Weather and Climate?
- A. Ocean current
  - B. Relief
  - C. Temperature
  - D. Nature of surface
16. Which of the following happens during March 21st?
- A. Direct rays of sun strikes tropic of Cancer
  - B. Lengths of day and night is the same across all hemispheres
  - C. The sun is overhead at the Tropic of Capricorn
  - D. The longest night of the year is in the northern hemisphere
17. One doesn't belong to the highland soil of Ethiopia?
- A. Nitosol
  - B. Vertisol
  - C. Yermosols
  - D. Acrisols



March 21





18. The spatial distribution of vegetation in Ethiopia is highly controlled by

- A. Altitude
- B. Distance from the Sea
- C. Ocean Current
- D. Latitude

19. The most accurate and reliable source of population data is

- A. Census method
- B. Sample survey method
- C. Vital registration
- D. All of the above

20. In Ethiopia, birth rates remain higher than death rates due to all of the following except?

- A. Early marriage
- B. Relative low infant and child mortality rates
- C. Lack of population awareness
- D. Parents consideration of children as assets

21. The inclusion of all persons during the census refers to:

- A. Universality
- B. Simultaneity
- C. Government sponsorship
- D. Periodicity

22. Ethiopia has the largest extent of Afro-Alpine & Sub-Afro Alpine habitats. This is mainly due to its:

- A. Latitudinal extension
- B. Altitudinal extension
- C. Geographical position
- D. Available intensive plain area

23. Flamingos & Pelicans mainly belongs to:
- A. Mago, Omo and Gambella National parks
  - B. Kafeta Shiraro and Maze National parks
  - C. Abijata and Shalla National parks
  - D. Lake Abaya and Chabra Churchura National parks
24. In which drainage system do we find the Grand Renaissance Dam (GERD)
- A. The Western Drainage Systems
  - B. The Southeastern Drainage Systems
  - C. The Rift Valley Drainage System
  - D. The Lake region
25. All are the implications of having a highest proportion of youth population except?
- A. Adverse effect on capital formation and investment
  - B. Heavy reliance on subsistence life and imposing burden on the working group ✓
  - C. Budget re direction to fulfill social services than productive investments ✓
  - D. Encourage the capacity to save at both household and national levels
26. The endless, permanent and compulsory process of recording demographic, social and other related data refers to;
- A. Census
  - B. Sample survey
  - C. Vital events registration
  - D. De facto enumeration system



27. All lakes in Ethiopia are resulted from the tectonic processes of?

- A. Mesozoic era
- B. Precambrian era
- C. Paleozoic era
- D. Cenozoic era

28. The largest rivers in volume and catchment areas respectively are;

- A. Abay and Baro
- B. Abay and Wabeshebelle
- C. Wabeshebelle and Abay
- D. Baro and Abay

29. The largest and the shallowest rift valley lakes respectively are;

- A. Shalla and Abijata
- B. Abaya and Ziway
- C. Shalla and Ziway
- D. Abijata and Ziway



Part FIVE: Workout; Look at the table below carefully and answer questions "30 to 35".  
(6 points).

Total mid-year population	65,694,082	
Total Women 15-49 years	15,000,000	
Total midyear Female population	33, 078, 591	
Rural population	25,000,000	
Sex ratio	98.6	
Total Births during the year	2 018 846	
Total Deaths during the Year	976 860	
Infant deaths during the year	250,000	
Population Composition by age:		
0-14	48.9%	
15-64	45.7%	
65+	5.4%	
Total area of the country	1 million km <sup>2</sup>	
Arable land	500,000 km <sup>2</sup> of the total land area	
Cultivated land	140,000 km <sup>2</sup> of arable land	

30. Crude birth rate is

- a. 307
- b. 30.7
- c. 134.6
- d. 20.7

*annual birth rate  
per 1000*

*2018846  
65,694,082*

*30.7*

General fertility rate is

- A. 307
- B. 30.7
- C. 134.6
- D. 13.46

32. Age dependency ratio is

- A. 109.6
- B. 100.7
- C. 110.4
- D. 118.8

33. Infant Mortality rate

- A. 113.5
- B. 128.6
- C. 123.8
- D. 188.7

34. Physiological Density (P/Km<sup>2</sup>) is

- A. 131.4
- B. 113.3
- C. 122.4
- D. 112.4

35. The rate of natural increase is

- A. 3.6%
- B. 3.24%
- C. 2.5%
- D. 1.6%

$$\frac{489}{46.7}$$

$$\frac{65,694,082}{300,000}$$

$$\frac{260,000 \times 1000}{2018846}$$

$$\frac{976860}{65,694082}$$

$$APR = \frac{P(0-14)}{P(15-64)} \times \frac{2018846}{15,000,000} \times 1000$$

$$\frac{48.9}{46.7}$$

14.8