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UACE S101 General Paper section B: Logic Quiz 2

Study the information provided in the table below and use it to answer the questions that follow.

URBAN-RURAL HEALTH STATISTICS FOR SELECTED COUNTRIES (1991 – 1994)

Indicators	KENYA		SENEGAL		BANGLADESHI		INDONESIA	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Mortality rate for children under 5 years per 10000 live birth	75.4	95.6	101.8	184.2	114.3	153.2	83.7	116.4
Percentage of children between 12 and 23 months with all vaccinations	80.9	78.3	64.9	40.4	70.4	57.5	68.2	40.9
Total fertility rate	3.4	5.8	5.1	6.7	2.7	3.5	2.6	3.2
Percentage of females of age 6 with no education	13.5	29.1	50.6	88.7	34.0	50.0	15.6	28.7

Adapted: World resource (1996-97) A guide to Global Environment, UNDP, The World Bank p. 32

- What is meant by the following terms
 - Mortality rate
 - Fertility rate
- State the country with
 - Highest
 - Lowest mortality rates
- Explain the relationship between education and
 - Fertility rate
 - Vaccination rate
- Use a bar graph to represent the percentage mortality rates for the countries shown in the table
- In your opinion, why are there differences in mortality rates for the countries shown in the table.

Solutions

- (a) (i) Mortality rate is the number of deaths per 1000 live birth.
(ii) Fertility rate is the average number of children a woman has produced in her lifetime.
- (b) (i) Country with highest mortality rate is Senegal
(ii) Country with lowest mortality rate is Kenya
- (c)(i) The higher the percentage of educated females, the lower the fertility rate and the lower the percentage of educated females the higher the fertility rates with the exception of Indonesia

Reasons

- Educated women may practice family planning
- Educated women start producing at a later age after school
- Educated women are more conscious of the quality of life for their children
- The working educated women may have careers that hinder them from producing.
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- (c)(ii) the higher the percentage of educated females the higher the vaccination rate

Reasons

- Educated women live close to the vaccination centers
- Educated women have high awareness about the benefits of vaccination
- Educated women may be less prohibited by culture.

(d) Calculations

Kenya	Urban	$\frac{75.4}{1000} \times 100 = 7.54\%$
	Rural	$\frac{95.6}{1000} \times 100 = 9.56\%$
Senegal	Urban	$\frac{101.8}{1000} \times 100 = 10.18\%$
	Rural	$\frac{95.6}{1000} \times 100 = 9.56\%$
Bangladesh	Urban	$\frac{114.3}{1000} \times 100 = 11.43\%$
	Rural	$\frac{153.2}{1000} \times 100 = 15.32\%$
Indonesia	Urban	$\frac{83.7}{1000} \times 100 = 8.37\%$
	Rural	$\frac{116.4}{1000} \times 100 = 11.64\%$

(e) In my opinion the differences in mortality rate between urban and rural areas are due to

- Better health facilities in urban than rural areas
- Women in urban areas are more enlightened /seek medical treatment/better hygiene/feed better
- Cultural inhibition on use of modern medicine in rural areas
- People in rural area cannot afford treatment
- Poor transport network in rural areas hinders people in rural areas to reach health facilities

Thank you

Dr. Bbosa Science