



Sukkur IBA University

Merit-Quality-Excellence

ADMISSION FALL 2018

SAMPLE TEST PAPER FOR THE FOLLOWING DEGREE PROGRAMS:

BE-Electrical Engineering, BE-Computer Systems Engineering, BE-Energy Systems Engineering (Renewable) & BS-Mathematics

Part-I (English)	40 Questions
Part-II (Mathematics)	35 Questions
Part-III (Physics)	25 Questions

PART-I (ENGLISH)

READING COMPREHENSION

Read the following passage carefully and answer the questions set below it.

Can we see that the earth is a globe? Yes, we can, when we watch a ship that sails out to sea. If we watch closely, we see the ship begin to disappear. The bottom of the ship disappears first, and then the ship seems to sink lower and lower, until we can only see the top of the ship, and then we see nothing at all. What is hiding the ship from us? It is the earth. Stick a pin most of the way into an orange, and slowly turn the orange away from you. You will see the pin disappear, just as a ship does on the earth.

1. This story is mainly about -

- A. the shape of the earth. B. traveling to the New World.
C. sailing ships in the old days. D. the shapes of fruits, such as oranges.

2. The ship in this story -

- A. probably sank to the bottom of the ocean. B. was going farther and farther away.
C. was actually a toy. D. was a sailing ship.

3. A globe is shaped like -

- A. a box. B. a pyramid.
C. an orange. D. an ice cream cone.

VOCABULARY: SYNONYMS

1. Their diet is often grossly unbalanced.

- A. Completely B. nearly C. often D. frequently

2. The whole thing is a vicious circle.

- A. severe B. very bad C. dangerous D. critical

VOCABULARY: ANTONYMS

1. The people must then go hungry.

- A. well-kept B. well cared for C. well looked after D. well fed

2. A particular country might be generous.

- A. miserly B. moderate C. extravagant D. frugal

PART-II MATHEMATICS

1. $\frac{d}{dx} (ax - b)^n =$

- a) $n(ax^{n-1} - b)$
- b) $n(ax - b)^{n-1}$
- c) nax^{n-1}
- d) $na(ax - b)^{n-1}$

2. If $f(x) = \cos x$, then $f'(\pi) =$

- a) -1
- b) 0
- c) $\frac{1}{2}$
- d) 1

3. $\frac{d}{dx} (5^x) =$

- a) $\frac{5^x}{\ln 5}$
- b) $\frac{\ln 5}{5^x}$
- c) $5^x \ln 5$
- d) 5^x

4. $\int \frac{f'(x)}{f(x)} dx =$

- a) $\ln x + c$
- b) $\ln f(x) + c$
- c) $\ln f'(x) + c$
- d) $f'(x) \ln f(x) + c$

5. $\int_1^2 (x^2 + 1) dx =$

- a) $\frac{3}{10}$
- b) 2
- c) $\frac{10}{3}$
- d) 0

6. $\int_0^2 f(x) dx =$

- a) $\int_2^0 f(x) dx$
- b) $-\int_0^2 f(x) dx$
- c) $-\int_{-2}^0 f(x) dx =$
- d) $\int_0^1 f(x) dx + \int_1^2 f(x) dx$

SAMPLE PAPER

