

ADMISSION FALL 2019

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 |
|------------|-------------|----------------|-----------|

USE OF PREPOSITION

1. The committee regrets that it cannot accede _____ your request for a month's paid leave.
A. for B. to C. in D. with
2. Our college is affiliated _____ the University of Sindh.
A. with B. to C. for D. in

ERROR DETECTION

1. George has not completed the assignment yet and Maria hasn't neither.
A B C D
2. The sun rose before I got up.
A B C D

USE OF VERBS

1. Lucy is a good girl andfor a brother.
A. long B. longs C. is longing D. longed
2. Mango is fruit that I.....
A. am always liking B. have been always liking
C. have always liked D. have been always liked

USE OF PAIRS OF WORDS:

1. Some wicked madeof their idol.
A. fun, fans B. fan, fun C. fans, fun D. fans, fans
2. The male child who is the only..... to the property has long, smooth, golden.....
A. hare, heir B. heir, hare C. hairs, hare D. heir, hair

USE OF TENSES

1. I wish I were young forever.
A. Present indefinite tense B. Present perfect tense
C. Past indefinite tense D. Past perfect tense
2. Death toll of the earthquake victims is feared to have increased.
A. Past indefinite tense B. Past perfect tense
C. Present indefinite tense D. Present perfect tense

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) $\int_0^1 f(x) dx + \int_1^2 f(x) dx$

PHYSICS (PART-III)

- SAMPLE