

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

D. frequently

2. The whole thing is a vicious circle.

A. severe

B. very bad

C. dangerous

C. often

D. critical

VOCABULARY: ANTONYMS

1. The people must then go <u>hungry</u>.

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 re	grets that it cannot	t accede you	ır request for a n	nonth's paid leave.			
A. for	B. to	C.	in	D. with			
2. Our college is affiliated the University of Sindh.							
A. with	B.to	_	for	D. in			
	10.		NAT.				
	<u>E</u> .	RROR DETECTION	<u>DN</u>				
1. George has not cor	npleted the assignm	ent yet and Maria ha	asn't neither.				
A	В	C	D				
2. The sun rose before	e I got up.						
A B C	D						
		USE OF VERBS					
1 . T	1 J	£ 1.					
 Lucy is a good gir A. long 	B. longs		D. longed	/			
		21.12.1.18.1.18					
2. Mango is fruit that I							
A. am always liking			een always liking				
C. have always liked		D. Have be	een always liked				
	HCE		DD G				
<u>USE OF PAIRS OF WORDS:</u>							
1. Some wicked madeof their idol.							
A. fun, fans		C. fans, fun	D. fans, funs	3			
,			, , , , , , , , , , , , , , , , , , ,				
2. The male child wl			_	h, golden			
A. hare, heir	B. heir, hare	C. hairs, hare	D. heir, hair				
	() I	USE OF TENSES	S				
	\(\frac{1}{2}\)	JGE OF TENSE	<u>5</u>				
1. I wish I were you	ng forever.						
A. Present indefinite t	B.	B. Present perfect tense					
C. Past indefinite tens	e		D. Past perfect tense				
2. Death toll of the e	arthquake victims	is feared to have in	icreased.				
A. Past indefinite tens	-		B. Past perfect tense				
C. Present indefinite tense			D. Present perfect tense				
			1				

PART-II MATHEMATICS

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

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 $f'(\pi) =$

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

a)
$$\frac{5^x}{1-5}$$

b)
$$\frac{\ln 5}{5}$$

c)
$$5^x \ln 5$$

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

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

a)
$$\frac{3}{10}$$

b) 2
c)
$$\frac{10}{3}$$

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

a) $\int_2^0 f(x) dx$

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)

1.	the resultant subtends an angle of on x-axes.					
	a) 0°	b) 90°				
	c) 180°	d) 180° +	θ			
2.	. A motorbike undergoes suffers head on compact for a short time of 2 seconds. The in		r motorbike with 100 N force of			
	a) 50 NS	b) 100 N	IS			
	c) 150 NS	d) 200 N	IS			
3.		tain transformer having 200 turns in its primary coil converts 11000 voltages to 220 domestic purpose then the number of turns in secondary coil should be:				
	a) 3	b) 4	ary con should be.			
	c) 5	d) 6				
	c) 3	u) 0				
4.	he process which converts low voltage signals to high voltage is called:					
	a) Amplification	b) Trans	sistor			
	c) Output	d) Input				
5.	. The minimum energy needed by a gamma	ay photon to create	e an electron-positron pair is:			
	a) 1.00 Mev	b) 1.01	Mev			
	c) 1.02 Mev	d) 1.03	Mev			