PAST QUESTIONS AND ANSWERS SAMPLE

This is a sample past questions and answers from **ISMYSCHOOL.NET**.

The Sample only contains two pages:

- **The first page will contain some of the past questions from a particular year from the school.**

- **The Second page will contain either some of the answers or all the answers for the particular year from which the sample questions was used.**

If you want to get the full past questions and answers which contains more than 5 years (can be more than or less depending on the school); follow the instructions on the last page.

AKANU IBIAM FEDERAL POLYECHNIC, UNWANA
POST-UTME SCREENING TEST FOR BUSINESS- BASED COURSES, SCIENCES AND ENGINEERING
2008/2009

TEST OF ENGLISH

Read passages I and II carefully and answer the questions that follow.

PASSAGE I

The mood of anger, frustration and despair which Achebe had demonstrated since 1965 which he finds in South African writers is characteristic of the intelligentsia not just writers- all over African today. Yet, it constitutes a serious danger to art. Righteous political indignation as the primary impetus for writing belongs more to the world of propaganda than to creative literature. In the writer, it accentuates the personal impulse to write protest and militates against detachment one way out, if the situation becomes is too oppressive to allow room for detachment, is to suspend writing and take a direct hand in inflecting the situation. This was Okigbo's solution. This was the solution recommended by the South Africa writer-exile, Lewis Nkosi. Who advised his fellow countrymen to stop writing unit the political problem in the country was solved rather than continue to grind out third-rate hackneyed stories Another way out is that followed by Nkos himself and host out is that followed by Nko's himself and a host of South African writers – Mphahlolo, Abrahams, Hutchinson, amongst others – who have quit their country and settled elsewhere, although, significantly, none of them is now living in an African country.

Abroad, they have been able to write with the jeisure and detachment that their country did not permit them. It speaks enough for their commitment that even in exile, they have all written about South Africa. But they have been able to produce other art forms longer and more artful than the short stories. Even if their autobiographical works are considered as anti-apartheid propaganda, it is a better propaganda than the protest writings they did in South Africa. Paradoxically, at a distance of several thousand miles from their society, they have been able to discipline their art.

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As Mphahiele said five years after leaving South Africa, excessive protest poisons one's system, and thank goodness, I'm emancipated from that. The anger is there, but I can harness it'

Adapted from politics and the African Writer Ogungbesan, K.

1. Which of the following does the writer mainly look for in the work of creative artist?
A. Protesting vehemently against a bad system.
B. Not being emotionally involved in a situation.
C. Launching a propaganda campaign
D. Expressing excessive anger.

2. The expression to grind out third – rate hackney stories as used in the passage refers to the phenomenon of writing
A. Substandard stories   B. Stale stories   C. Stories of children   D. Short protest stories.

3. In the writer's view some South African writers have become letter writers as a result of
A. Concentrating on short stone   B. protesting about apartheid
C. Disengaging themselves from polities D.   Option to go on exits.

4. What is the thrust of writer's argument in this passage?
A. The writing of protest stories   B.   The contribution of South African writers in exile. C.   Giving solutions to political problems D. The emphasis on creative Literature

5. The expression to grind out third- rate hackney stories as used in the passage refers to the phenomenon of writing:
A. Substandard stories   B. Stale Stories
C. Short protest stories   D. Short protest stories.

29. Onu has the 1(A) power (B) edge (C). strength (D) choice, over Nkechi in the admissions exercise

30. We went to condole with the 1A sympathetic (B) mournful (C). pitiful (D) bereaved family.

PART II
MATHEMATICS

1. The area of a sector of a circle of radius 14cm is 144cm^2 find the value of the angle subtended by the sector at the center to the nearest degree $(x = \frac{22}{2})$

A. 8.4^0 B. 96^0 C. 104^0 D. 116^0

2. The locus of point in a plane whose distances from a fixed point are less than or equal to 4cm is a ....
A. triangular region B cylinder C turns D. circular region.

3. What is the equation of a time paralleled to the line $3y - x + 4 = 0$ which passes through the point (2, - 4)?
A. $3y + x + 14 = 0$ B. $3y - x + 14 = 0$
C. $Y + 3x -14 = 0$ D. $Y - 3x - 14 = 0$

4. The angle of depression of a point on the ground from a point on top a building 30m high is 45^0. What is the distance between the two points correct to the nearest metre?
A. 60m B. 50m C. $30\sqrt{2}m$ D. $15\sqrt{2}m$

5. If $y = \sin 5x$, and find $\frac{dy}{dx}$
A. $5 \sin 5x$ B. $5. \cos 5x$ C. $\frac{1}{5} \cos 5x$ D. $\frac{1}{5} \sin.5x$

6. Find the limit of the function $\frac{x^2 - 9x+20}{x^2 - 3x - 4}$ as x tends to 4
A -5 B. $\frac{1}{5}$ C $\frac{1}{5}$ D. 5

Find the probability that either Q or R will win

(A). $\frac{1}{5}$ (B). $\frac{4}{15}$ (C). $\frac{7}{15}$ (D). $\frac{8}{15}$

33.   In a class of 40 students 55% passed Mathematics, 25% passed physics and 20% passed both mathematics and physics. How many passed neither Mathematics nor physics?

(A).   10   (B). 12 (C) 14 (D) 16

34.   If $S = \frac{1}{2}(u + v)t$, make v the subject of the formula

(A). $\frac{2s-ut}{t}$ (B) $\frac{ut-2s}{t}$ (C) $\frac{ut+2s}{t}$ (D) $\frac{2s-u}{t}$

35.   If (y+2) varies inversely a, x and =3 where x = 2. Find y when x =5
A.   3 (B). 2. (C). 1. (D). 0.

2008/2009 ANSWERS
AKANU IBIAM FEDERAL POLYECHNIC, UNWANA
POST-UTME SCREENING TEST FOR BUSINESS- BASED
COURSES, SCIENCES AND ENGINEERING

ENGLISH LANGUAGE

1)   B   -   Not being emotionally involved in a situation
2)   D   -   Short protest stories
3)   D   -   Option to go on exile
4)   D   -   The emphasis on creative literature
5)   See No 2 above
6)   C   -   Savings
7)   B   -   Survive
8)   A   -   Cloth
9)   B   -   Exert
10) A   -   damned
11) D   -   It was important for Badejo to be in the house before eight O'clock
12) B   -   She enjoys play acted without words

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13) To lead 8b by me more – is to make 8b do everything you want; to control 8b completely. Ans A.

14) C

Word	**Opposite in meaning**
15) Avaricious	C- Generous
16) Scampered away	C- Resurfaced
17) Grown	A- Diminished
18) Precarious	B. Stable
19) Attracted	D- Repelled

Word	**Nearest in meaning**
20) Zest	B- Excitement
21) Described	D-attributed
22) Preposterous	B- Mooted
23) Don't have to	A- Must not
24) Apocalyptic	A- Destructive
25) A	In spite of its weight
26) C	Postponed
27) D	Volition
28) D	Less
29) B	Edge
30) D	Bereaved

MATHEMATICS

1) Area of θ sector of a circle (A) $= \dfrac{\theta}{360} \times \pi r^2$

Where θ = angle subtended by ne sector in degree

$\pi = \dfrac{22}{7}$

r = radius of the sector given as 14cm

Area is given as 144cm2

So, A $= \dfrac{\theta}{360} \times \pi r^2$

Make ne subject

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34. The prices of two garments are such that their sum is N100 while the difference is N70, find the price of the costlier garment.　A. N15　　B. N170　　C. N85　　D. N30
35. A man deposited N5,000 in a bank at an interest rate of 5% per annum for 6 years. Find the accrued amount at the end of the 6 years. A. N1500　　B. N3500　C. N6,500　D. N6,700
36. The cost of producing some item denoted by Nx is given as $df(x)/dx = 3x^2 - 1$
    Find the total cost if the fixed cost of those items is given as N100
    A. N100　　　B. $x^3 + N100$　　C. $x^{3-x} + N100$　　D. $x^3 - x^2 + N100$
37. 9 men did a piece of work in 3days. In how many days will 6 men of equal ability do the same piece of work? A. $6\frac{3}{4}$　　B. $5\frac{1}{3}$　　C. 12　　D. 14
38. $\frac{1}{3}$ of a man's monthly income is spent on his first son, $\frac{2}{5}$ of the remainder on his last daughter. If ¼ of the money is meant for feeding, how much is his monthly income if he still has N51,000 unused after all his expenses?　　A. N210,000　　B. N150,000　C. N240,000　D. N180,000
39. How long will it take a sum of money to double itself at 5% per annum simple interest?
    A. 15yrs　　　B. 20yrs　　　C. 25yrs　　　D. 18yrs
40. The hire purchase price of a car is N800,000. If 20% of this sum is paid as deposit and the rest is paid in 10 equal monthly installments, calculate the amount of each monthly installment.
    A. N64,000　　　B. N640,000　　　C. N160,000　　　D. N74,000

SOLUTION TO AKANU IBIAM FEDERAL POLYTECHNIC 2014/2015 POSTUTME SCREENING TEST FOR BUSINESS BASED COURSES, SCIENCES AND ENGINEERING

ENGLISH LANGUAGE

1. B	2. D	3. A	4. A	5. D	6. A	7. A
8. B	9. A	10. A	11. B	12. A	13. D	14. B
15. A	16. A	17. D	18. D	19. D	20. B	21. C
22. D	23. C	24. D	25. C	26. D	27. B	28. C
29. D	30. C					

MATHEMATICS

31. $\frac{5000}{20000} \times 100 = 25\%$　Ans: C
32. $Q = 92 - 3^n$; $65 = 92 - 3^n$
    $3^n = 92 - 65 = 27 = 3^3$
    ∴ $n = 3$　Ans: B　　　33. A
34. let the price of the costlier garment = x, let the price of the second garment = y
    $X + y = 100$
    $X - y = 70$
    Solving simultaneously, we have
    x = N85　and y = N15　Ans: C
35. $I = \frac{prt}{100} = \frac{(5000 \times 5 \times 6)}{100} = N1,500$
    Amount = principal + interest = N5000 + N1500 = N6500　Ans: C　　　36. B
37. 9 men did a piece of work in 8days.
    The same piece of work will be done by one man in = 9 x 8days = 72days
    ∴ If it takes one man 72days to be accomplished, it will take 6men of same ability
    $= \frac{72}{6} = 12days$　Ans: C
38. A
39. For a money to double, the interest equal to 100% per annum
    ∴ For an interest of 5% per annum, it will take = $\frac{100\%}{5\%}$years = 20years　Ans: B
40. The hire purchase price of a car = N800,000
    20% paid as deposit = $\frac{20}{100} \times N800,000 = N160,000$
    Amount remaining after deposit payment = N800,000 – N160,000 = N640,000
    In 10 equal installments, the amount paid in each month = $\frac{N640,000}{10}$ = N64,000 Ans: A