

# PAST QUESTIONS AND ANSWERS SAMPLE

This is a sample past questions and answers from [ISMYSCHOOL.NET](https://www.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.



**IMO STATE UNIVERSITY, OWERRI  
2014/2015 POST-UTME APTITUDE TEST SCREENING EXERCISE**

**Faculty of Business Administration**

**Instruction: Shade the supplied OMR sheet with the correct answer in all the required fields. Any candidate with double OMR will be disqualified.**

**DAY 2: Morning Session: 8-11am; TYPE C Time: 45 minutes**

1. Add the following  $72_8 + 643_8$ . A.  $735_8$  B.  $375_8$  C.  $815_8$  D.  $573_8$
2. Find the 9<sup>th</sup> term of the sequence 6, 11, 16, 21, 26, .... A. 40 B. 46 C. 64 D. 51
3. Find the sum of roots of the equation  $2x^2 - 7x + 2 = 0$ : A. -7 B. -3.5 C. 2 D. 3.5
4. Find the value of x which satisfies the simultaneous equations:  $2x - 5y = 11$ ;  $x - 2y = 5$  A. 3 B. -1 C. -3 D. 1
5. Convert  $34_{five}$  to base two: A.  $10011_{two}$  B.  $100010_{two}$  C.  $1011_{two}$  D.  $10010_{two}$
6. A man spent one-third of an allowance on entertainment and one-quarter of the rest as gift. If he is left with 40.00. Calculate the allowance: A. N96.00 B. N60 C. N80.00 D. N120.00
7. Simplify  $\frac{0.105}{3.5}$  A. 3 B. 30 C. 0.3 D. 0.03
8. A boy whose true age is 25 years claimed the age of 24 years a months. What is the percentage error? A. 1% B. 3% C. 25% D. 9%.
9. In the figure below, O is the centre of circle ABC and  $\angle ACB = 35^\circ$ . Calculate interior angle AOB



- A.  $290^\circ$  B.  $70^\circ$  C.  $110^\circ$  D.  $35^\circ$
10. If  $\cos \theta = \frac{2}{3}$ , what is  $\sin^2 \theta$ ? A.  $\frac{16}{9}$  B.  $\frac{9}{25}$  C.  $\frac{9}{16}$  D.  $\frac{16}{25}$
  11. What is the eighth term of the services 32, 16, 8,.....? A. 4 B.  $\frac{1}{2}$  C.  $\frac{1}{4}$  D.  $\frac{1}{16}$
  12. Calculate the means deviation of the {2, 3, 7}: A. 2 B. 4 C. 5 D. 6
  13. What is the probability that a total sum, of a would appear in two tosses of a fair die? A.  $\frac{1}{12}$  B.  $\frac{1}{9}$  C.  $\frac{1}{6}$  D.  $\frac{1}{4}$
  14. The interior angles of a pentagon are  $(x+5)^\circ$ ,  $(10+x)^\circ$ ,  $(x-25)^\circ$ ,  $(x-15)^\circ$ , find x. A.  $120^\circ$  B.  $102^\circ$  C.  $114^\circ$  D.  $108^\circ$
  15. Evaluate:  $161_8 \times 23_8$ : A. 4143 B. 4043 C. 4243 D. 4000

**Each of the following sentences has one underlined word and one gap. From the list of words lettered A to D choose the one that is most nearly opposite in meaning to the underlined word and would correctly fill the gap in the sentence.**

16. We blamed Olu for breaking the glass, but when Ike confessed that he did it, Olu was \_\_\_\_\_. A. rewarded B. exonerated C. released D. jailed
17. They had to \_\_\_\_\_ the old buildings to construct the five star hotel. A. close B. remove C. demolish D. damage
18. If we commence the meeting on time, we should be able to \_\_\_\_\_ by 4.00pm A. return B. vacate C. convene D. adjourn
19. The children expected to be praised for putting out fire, but they were \_\_\_\_\_ for taking such a risk. A. rebuked B. accused C. despised D. sentenced
20. They ended the discussion on amicable terms though they were \_\_\_\_\_ to each other at the beginning. A. unacceptable B. hostile C. unknown D. annoying

**In the following passages the numbered gaps indicate missing words. Against each number in the list below each passage, five choices are offered in columns lettered A to E**

**for each question, choose the word that is the most suitable to fill the numbered gaps in the passage.**

**PASSAGE A**

For the working woman, the task of looking after the home and -21- up the children is not easy. Although the house may have every modern -22- there is still much -23- to keep her -24- : cooking, cleaning, mending, washing and ironing. If she is lucky to have a -25- help, her task is made somehow easier. The working woman spends much of her income on beauty care. She buys a lot of -26- and visits the -27- regularly. Most women are so occupied with the daily -28- that they need these things to -29- themselves up. Thus, the responsibilities of a -30- are quite demanding and she could be so busy as to have little time for other engagements.

- | A               | B             | C           | D            |
|-----------------|---------------|-------------|--------------|
| 21. bringing    | pulling       | getting     | pushing      |
| 22. convenience | necessity     | assistance  | convention   |
| 23. thing       | engagement    | work        | labour       |
| 24. tied        | busy          | alert       | ready        |
| 25. willing     | fraternal     | matrimonial | residential  |
| 26. decorations | condiments    | ornaments   | cosmetics    |
| 27. saloon      | shop          | store       | salon        |
| 28. events      | chores        | needs       | requirements |
| 29. smile       | encourage     | cheer       | laugh        |
| 30. housewife   | housemistress | householder | housekeeper  |

31. Entity concept of a business states that
  - A. The owner of a business and the business should be treated equally
  - B. The owner of a business is free to take money from his business at any time
  - C. The business should be treated as a separate entity and the business also be seen as a separate entity.
  - D. The business should not account for any money from the owner
32. According to economist, capital is: A. Money used in starting up a bus B. Wealth set aside in order to acquire further wealth C. Total asset less current liability D. None of the above
33. Mr. A has #200 to spend and want to buy 5 items. Those his money cannot afford is known as: A. Choice B. Opportunity cost C. Money cost D. Total cost
34. The document which invites the general public to subscribe for shares is known as: A. Memorandum of association B. Article of association C. Article No.5 of CAMA Act 1990 D. Prospectus
35. The point which demand and supply is equal is known as: A. The meeting point B. Junction box C. Contact equilibrium D. Equilibrium point
36. Total withdrawal of government owned organization to the private sector: A. Private sector policy B. Privatization and commercialization policy C. privatization D. None of the above
37. A person who discovers business opportunity and invests his or her available resources is known as A. A business idea man B. An enterprise man C. A business man D. An entrepreneur
38. A graph showing all the combinations of goods and services that can be produced if all of society's resources are used efficiently is a: A. circular-flow diagram B. capital consumption frontier C. production possibility curve. D. Lorenz curve.

39. Periods of less than full employment correspond to: A. either points inside or outside the production possibility curve B. points inside the production possibility curve C. points on the production possibility curve D. points outside the production possibility curve.
40. The circular flow of goods and incomes shows the relationship between: A. goods and services B. wages and salaries C. firms and households D. income and money
41. In a free market system, the amount of goods and services that any one household gets depends upon its: A. wage and interest income B. wealth C. income and wealth D. income.
42. In a planned or command economy, all the economic decisions are taken by the: A. consumers B. voters C. government D. workers.
43. The study of inflation is part of: A. macroeconomics B. microeconomics C. Descriptive economics D. Normative economics
44. The hourly wages of five employees of the Nigerian Ports Authority are N2.52, N3.96, N3.28, N9.20 and N3.75 respectively. The median hourly wage is A. N2.52 B. N3.28 C. N3.75 D. N3.96 E. N9.20
45. The satisfaction derived from the use of a commodity is it's: A. demand B. elasticity C. wealth D. utility
46. The reward which accrues to labour for participating in production is A. interest B. wages C. bonus D. profit
47. One characteristics of labour is that it is: A. fixed in demand B. fixed in supply C. mobile D. untrainable
48. When population is classified according to professions, it is called: A. geographical distribution of population B. age distribution of population C. distribution D. occupational distribution
49. Revenue is the: A. total profit made after sales B. amount spent on purchases C. amount of goods produced D. total money realized from sales
50. Which of the following is a characteristics of monopoly? A. many sellers B. homogenous commodity C. single seller D. perfect knowledge.

**SOLUTIONS TO 2014 POST-UTME APTITUDE TEST  
SCREENING EXERCISE  
Faculty of Business Administration**

1. 
$$\begin{array}{r} 72_8 + 643_8 \\ 643_8 \\ \hline 72_8 \\ \hline 735_8 \end{array} \quad [A]$$
2. 
$$T_9 = a + (n-1)d$$
  

$$6 + (9-1)5$$
  

$$6 + 8 \times 5$$
  

$$= 6 + 40 = 46 [B]$$
3. 
$$2x^2 + 7x + 2$$
  

$$-b \pm \sqrt{(-b)^2 - 4ac}$$
  

$$= 7 \pm \sqrt{(49 - 4 \times 2 \times 2)}$$
  

$$7 \pm \sqrt{\frac{49 - 16}{4}}$$
  

$$7 \pm \sqrt{\frac{33}{4}}$$
  

$$7 \pm \frac{5.7}{4}$$
  

$$= \frac{7 + 5.7}{4} \text{ or } \frac{7 - 5.7}{4}$$
  

$$= 3.17 \text{ or } 5.57$$
4. 
$$\begin{array}{l} 2x - 5y = 11 \dots\dots\dots (1) \\ x - 2y = 5 \dots\dots\dots (2) \end{array}$$

$$2x + 5y = 11$$

$$x = \frac{11+5y}{2}$$

Apply in equation 2

$$\frac{11+5y}{2} - 2y = 5$$

Multiply by 2

$$2\left(\frac{11+5y}{2}\right) - 2(2y) = 5 \times 2$$

$$= (11 + 5y) - 4y = 10$$

$$11 + 5y - 4y = 10$$

$$y = -10 + 11$$

$$y = -1$$

Substitute in equation (2)

$$x - 2y = 5$$

$$x - 2(-1) = 5$$

$$x + 2 = 5$$

$$x = 5 - 2$$

$$x = 3 \quad [A]$$

(5)  $3 \times 5^1 \times 4 \times 5^0$

$$15 + 4 = 19$$

To base 2

$$\begin{array}{r} 2 \overline{)19} \\ \underline{2 \ 9} \ -1 \\ 2 \ 4 \ -1 \\ 2 \ 2 \ -0 \\ 2 \ 1 \ -0 \\ \hline 0 \ -1 = 10011_2 \end{array} \quad [A]$$

6. Let the allowance be Nx

Entertainment =  $\frac{1}{3}x$

Rest =  $x - \frac{x}{3} = N\left(\frac{2x}{3}\right)$

Gift =  $\frac{1}{4}(\text{Rest}) = \frac{1}{4} \times \frac{2x}{3} = \frac{Nx}{6}$

Total money spent = entertainment + gift

$$= N\left(\frac{x}{3} + \frac{x}{6}\right)$$

Total leftover = x total spent = 40

$$= N\left(\frac{x}{3} + \frac{x}{6}\right) = 40$$

$$= x = \frac{x}{3} - \frac{x}{6} = 40$$

Multiply by (6)

$$= 6x - 2x - x = 40(6)$$

$$3x = 40(6)$$

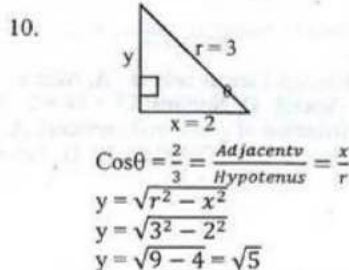
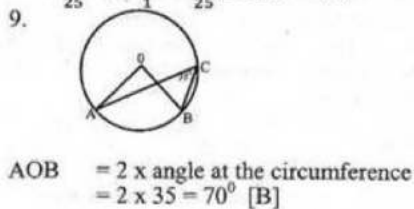
$$\therefore x = \frac{40(6)}{3} = N80 \quad [C]$$

7.  $\frac{0.105}{3.5} = 0.03 \quad [D]$

8. 
$$\% \text{error} = \frac{|\text{error}|}{\text{Actual value}} \times 100$$
  

$$= \frac{|\text{Theoretical} - \text{Actual value}|}{\text{Actual value}(\text{true})} \times 100$$
  

$$= \frac{|24 - 25|}{25} \times 100 = \frac{1}{25} \times 100 = 4\%$$



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**Account Name:** BENTENBLOG

**Account Number:** **0422509683**



**Bank:** First City Monument Bank (FCMB) (Nationwide)

**Account Name:** BENTENBLOG

**Account Number:** **4950590010**

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