



# OYO STATE MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

2024 JOINT MOCK EXAMINATION FOR SSS 3 STUDENTS IN PUBLIC SENIOR SECONDARY SCHOOLS

CLASS: SS 3 SUBJECT: MATHEMATICS

TIME: 2 ½ HRS

## SECTION A: ATTEMPT ALL THE QUESTIONS IN SECTION

1. If  $\log_{10} 3 = 0.4771$ , evaluate  $\log_{10} 8.1$  (a) 1.9084 (b) 0.5229 (c) 0.9084 (d) 0.4771
2. Find  $x$  if  $3 \times 8 = x \text{ Mod } 9$  (a) 2 (b) 3 (c) 6 (d) 8
3. Given that  $2 \log y = 8 \log p + 4 \log q$  express  $y$  in term of  $p$  and  $q$  (a)  $y = p^4 + q^4$  (b)  $y = p^4 + q^8$  ©  
 $y = p^8 q^4$  (d)  $y = p^8 q^2$
4. Express  $5 + \frac{1}{1000} + \frac{3}{10000} + \frac{4}{1000000}$  as a decimal number (a) 5.20304 (b) 5.02034 © 5.00234  
(d) 5.02304
5. Simplify  $\frac{2\sqrt{5}}{\sqrt{5}}$  (a)  $\sqrt{2}$  (b) 2 (c) 5 (d)  $\sqrt{5}$
6. Find the product of 10110<sub>2</sub> and 11<sub>2</sub> (a) 1000010<sub>2</sub> (b) 1000101<sub>2</sub> (c) 1000110<sub>2</sub> (d)  
1001000<sub>2</sub>
7. Decreases 120 by 25% (a) 108 (b) 90 (c) 95 (d) 86
8. Calculate the compound interest on N1200 for 4 years at 8% per annum (a) N120.90 (b)  
N432.59 (c) N384.00 (d) N1511.65
9. Given set A, B and C such that:  
 $A = \{a, 1, c, 4, d\}$   
 $B = \{b, 4, 0, 9, 7, 6\}$  and  
 $C = \{a, 4, 8, 9, d, 2, 5\}$   
Find  $(A \cap B) \cap C$   
(a)  $\{a, 1, 4, 8, 9\}$  (b)  $\{a, c, d, 1, 4, 9\}$  (c)  $\{4, 8, a, 2, 5\}$  (d)  $\{b, 4, 2, 5, 8\}$
10. In a Chemistry class, a student recorded  $21.13 \text{ cm}^3$  for the titre value of  $21.23 \text{ cm}^3$ . Find the  
percentage error, correct to one decimal place (a) 0.4 (b) 0.5 (c) 0.8 (d) 1.4
11. In an Arithmetic Progression (A.P) the first term is 3 and the sum of the 3rd and 12th is  $38\frac{1}{2}$ .  
What is the 17th term? (a) 45 (b) 38 (c) 33 (d) 43
12. The 3rd term of a Geometric Progression (G.P) is 18 and the 6th term is 486. Find the first  
term (a) 3 (b) 5 (c) 6 (d) 2
13. The area of a rectangular piece of cardboard paper is  $104 \text{ cm}^2$ . If its width is 8cm, find its  
perimeter. (a) 42cm (b) 52cm (c) 32cm (d) 26cm
14. If 1 is added to the denominator of a fraction, the fraction is  $\frac{1}{2}$ , when 3 is added to both the  
numerator and denominator of the fraction, it becomes  $\frac{2}{3}$ . Find the fraction (a)  $\frac{2}{3}$  (b)  $\frac{1}{3}$  (c)  $\frac{1}{2}$   
(d)  $\frac{3}{4}$
15.  $y$  is partly constant and partly varies as  $x$ , when  $y=2, x=3$  and when  $y=5, x=6$ . Find the  
relationship between  $x$  and  $y$ . (a)  $y=x+1$  (b)  $y=1-x$  (c)  $y=x-1$  (d)  $y=2x-1$
16. Find a quadratic equation whose roots are 2 and  $-\frac{1}{3}$ . (a)  $3x^2+6x-1=0$  (b)  $3x^2-5x+2=0$  ©  
 $6x^2-x+15=0$  (d)  $3x^2-5x-2=0$
17. Solve the equation  $2x+8-21x^2=0$  (a)  $x=\frac{2}{7}$  or  $x=-\frac{4}{7}$  (b)  $x=\frac{2}{7}$  or  $x=\frac{4}{7}$  (c)  $x=-\frac{2}{7}$  or  $x=-\frac{4}{7}$   
(d)  $x=\frac{2}{7}$  or  $x=-\frac{2}{7}$
18. What must be added to  $2y^2+7y$  to make it a perfect square (a)  $\frac{49}{4}$  (b) 14 (c) 49 (d)  $\frac{49}{2}$
19. Solve the simultaneous equation s:  
 $x+2y=-4$   
 $2x+3y=-5$   
(a)  $x=-2, y=-1$  (b)  $x=2, y=-3$  (c)  $x=-2, y=3$  (d)  $x=2, y=3$

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**Mark Steyvers**



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web jul 19 2022 high school students from china earned the top three gold medals in the 54th international chemistry olympiad icho which was hosted remotely from tianjin july 10 18 the us team was awarded

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web it is considered to be the most difficult chemistry exam throughout the world by whom the difficulty of final round is much harder than icho the difficulty of the preliminary round is often enough to surpass icho also its problems are often beyond the abilities of an overwhelming majority of undergraduates