

# M.K.G CA EDUCATION

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## TEST-7

**QUESTION BOOKLET CODE: MKG**

**QUESTION PAPER BOOKLET NO. 7052022**

**ROLL NO. 654287**

**CA FOUNDATION**

**(22-05-2022 3:00 P.M. TO 5:00 P.M)**

**Business Mathematics and Logical Reasoning & Statistics**

**FULL SYLLABUS**

**Time allowed: 2 hours**

**Maximum Marks : 100**

### **Instructions:**

1. Answer to be given in OMR sheet
2. Negative marking applies

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1. The compound interest on a certain sum is Rs. 2090 simple interest is Rs. 2000 for 2 years. What is the rate per cent for 2 years? what is the rate percent?  
(a) 9%  
(b) 18%  
(c) 4.5%  
(d) 10%
  2. The value of a machine depreciates 12% annually for first 3 years ,@ 14% annually for next 4 years and @ 18% annually for remaining 3 years If the present value is Rs.68,150 then its initial cost is .  
(a) ₹ 2,87,980  
(b) ₹ 3,31,540  
(c) ₹ 3,76,970  
(d) None of these
  3. What principal will amount to ₹ 370 in 6 years at 8% p.a. at simple interest  
(a) ₹ 210  
(b) ₹ 250  
(c) ₹ 310  
(d) None of these

4. The effective rate of interest is @ 16.90 % on fortnightly compounding the nominal rate is
  - (a) 15.66 %
  - (b) 15.09%
  - (c) 14.98%
  - (d) None of these
5. An asset was purchased by paying Rs 40,000 pm for 10 years to be started at the end of 6 months if opportunity cost is @ 9% the cost of plant is
  - (a) ₹ 33,53,244
  - (b) ₹ 31,57,667
  - (c) ₹ 29,62,090
  - (d) None of these
6. An amount becomes Rs 23,89,000 in 6 years 4 months and Rs 25,98,000 in 8 years 6 months on simple interest basis the rate of interest is
  - (a) 5.40 %
  - (b) 5.04%
  - (c) 6.05%
  - (d) None of these
7. An asset was sold for Rs 89,90,000 after 7 years of its purchase and compounded growth was 11.25 % the cost of asset is
  - (a) Rs 43,07,985
  - (b) Rs 42,98,465
  - (c) Rs 42,62,575
  - (d) None of these
8. Suppose your father decides to gift you Rs. 5,000 every year starts from today for the next four years. You deposit the amount in a bank as and when you receive and get 10% per annum interest rate compound annually. The present value of this annuity is
  - (a) ₹ 17,434.25
  - (b) ₹ 17,344.25
  - (c) ₹ 17,434.52
  - (d) ₹ 17,344.52
9. An amount of Rs 76,00,000 was repayable after 7 years which is now preponed to 3 years and 9 months what is the amount payable if rate of interest is @ 10% pa compounded quarterly.
  - (a) ₹ 55.13,195
  - (b) ₹ 55,73,190
  - (c) ₹ 56,14,985
  - (d) None of these
10. An amount of RS 56,00,000 is invested in 2 securities @ 11% and 14% respectively and total interest earned in 3 years is 20,16,000 the larger amount of investment is
  - (a) ₹ 18,66,670
  - (b) ₹ 37,33,330
  - (c) ₹ 38,89,900
  - (d) None of these
11. The sum of all the 4 digits' numbers that can be formed with the digits 3,4,5,5 is
  - (a) 18887
  - (b) 33333
  - (c) 38887
  - (d) 56661
12. The 4 digit number is formed with 3 5 7 8 and 9 find probability number is greater than 5700
  - (a)  $\frac{2}{4}$

- (b)  $\frac{3}{4}$   
 (c)  $\frac{3}{5}$   
 (d) None of these
13. How many 4 digit numbers can be formed with 4 4 6 6 7 7 8 and 9 .  
 (a) 354  
 (b) 56  
 (c) 336  
 (d) None of these
14. A company wishes to redeem 1,00,000 debentures of Rs 1,000 each at a premium of 8% after 9 years if opportunity cost is @ 9% the annual provision required is  
 (a) Rs 78,98,960  
 (b) Rs 87,76,965  
 (c) Rs 82,94,625  
 (d) None of these
15. The CPI from 2021 to 2022 is 132 % if index number of food item is 124% and index number of other items is 141% the weight of other item is  
 (a) 53 %  
 (b) 47%  
 (c) 62 %  
 (d) None of these
16. If  $\frac{1+3+5+\dots+n \text{ terms}}{2+4+6+\dots+50 \text{ terms}} = \frac{2}{51}$ , then the value of 'n'  
 (a) 9  
 (b) 10  
 (c) 12  
 (d) 13
17. The sum of  $1 + \frac{5}{6} + \frac{9}{36} + \frac{13}{216} + \dots$  up to infinity is  
 (a)  $\frac{59}{25}$   
 (b)  $\frac{54}{25}$   
 (c)  $\frac{49}{25}$   
 (d) None of these
18.  $\int \frac{1}{(e^x-1)^3} dx =$   
 (a)  $\log \left| \frac{e^x}{e^x-1} \right| + \frac{1}{e^x-1} + c$   
 (b)  $\log \left| \frac{e^x-1}{e^x} \right| + \frac{1}{e^x-1} + c$   
 (c)  $\log \left| \frac{e^x}{e^x-1} \right| - \frac{1}{e^x-1} + c$   
 (d)  $\log \left| \frac{e^x}{e^x-1} \right| - \frac{1}{e^{x+1}} + c$
19. If  $MC = 10 - .01x + 0.009x^2$  where x is quantity of production and the total fixed cost = ₹ 100, then the total cost is  
 (a)  $100 + 10x - 0.05x^2 + 0.0009x^3$   
 (b)  $100 + 10x - 0.005x^2 + 0.003x^3$   
 (c)  $100 + 10x - 0.05x^2 + 0.0009x^3$   
 (d)  $100 - 10x - 0.05x^2 + 0.0009x^3$
20. If  $e^{xy+xy} = e$  then  $\frac{dy}{dx} =$   
 (a)  $-\frac{y}{x}$   
 (b)  $-\frac{1}{xy}$

- (c)  $xy$   
 (d)  $\frac{x}{y}$
21. A and B throw a pair of dice till doublet appears if A starts the game find probability of winning B  
 (a)  $\frac{6}{11}$   
 (b)  $\frac{5}{11}$   
 (c)  $\frac{7}{11}$   
 (d) None of these
22. The number of diagonals in octagon  
 (a) 22  
 (b) 24  
 (c) 20  
 (d) None of these
23. On the set of lines, being Perpendicular is a \_\_\_\_\_ relation.  
 (a) Reflexive  
 (b) Symmetric  
 (c) Transitive  
 (d) None of these
24. An amount becomes 2.75 times in 16 years find how much time it will take in getting 4 folds if rate of interest is increased by 2%  
 (a) 23 yrs 2 months  
 (b) 23 yrs 5 months  
 (c) 24 yrs 3 months  
 (d) None of these
25.  $\int_0^{2a} \frac{f(x)}{f(x)+f(2a-x)} dx$   
 (a)  $a$   
 (b)  $-a$   
 (c)  $0$   
 (d)  $2a$
26. Complete the series 4 18 48 100 180 -----  
 (a) 294  
 (b) 312  
 (c) 287  
 (d) None of these
27. Complete the series 6 14 36 98 276 -----  
 (a) 794  
 (b) 598  
 (c) 732  
 (d) None of these
28. Find the missing 13 17 19 23 29 31 37 -----  
 (a) 43  
 (b) 41  
 (c) 47  
 (d) None of these
29. Two buses start from the opposite points of a main road ,150 KM apart. The first bus runs for 25 KM and takes a right turn and runs for 15 Km, it then again turns left and runs for another 25 Km and takes the direction back to main road. In the meantime another bus runs only 35 Kms on the main and stops due to breakdown. How far both the buses are from each other

- (a) 15 kms
  - (b) 65 kms
  - (c) 75 kms
  - (d) 85 kms
- 30.** Arun Started from Point A and Walked 10 kms East to Point B, then turned to North and walked 3 kms to point C and then turned West and walked 12 kms to point D, then again turned South and walked 3 kms to point E. In which direction is he from his starting point
- (a) East
  - (b) South
  - (c) West
  - (d) North
- 31.** I Stand with my right hand extended side-ways towards South. Towards which direction will my back be?
- (a) North
  - (b) West
  - (c) East
  - (d) South
- 32.** Lokesh school bus is facing North when reaches school. After starting from Lokesh house it turns right twice and then left before reaching school. What direction the bus was facing when it left for school from Lokesh house
- (a) North
  - (b) South
  - (c) East
  - (d) West
- 33.** There are Five houses A, B, C, C, D, E, A is the right of B and E is left of C and right of A, B is right of D, which house is middle
- (a) A
  - (b) B
  - (c) C
  - (d) D
- 34.** Girls are sitting on a bench, Q is the left of R but on the right of P. S is to be right of R but one left of T. Who are the extremes.
- (a) P, T
  - (b) P, S
  - (c) Q, T
  - (d) Q, S
- 35.** Five friends P, Q, R, S and T are sitting in a row facing North. Here, S is between T and Q and Q is to the immediate left of R. P is to the immediate left of T. Who is in the middle?
- (a) S
  - (b) T
  - (c) Q
  - (d) R
- 36.** In a march past, seven persons are standing in a row. Q is standing left to R but right to P. O is standing right to N and left to P. Similarly, S is standing right to R and left to T. Find out who is standing in middle?
- (a) P
  - (b) Q
  - (c) R
  - (d) O
- 37.** A said to B that " The brother of your father is the only son in law of my maternal grand father "How is A related to B .

- (a) Cousin  
(b) uncle  
(c) brother  
(d) nephew
38. If P is the husband of Q and R is the mother of S and Q. What is R to P?  
(a) Mother  
(b) Sister  
(c) Aunt  
(d) Mother-in-law
39. P is the father of T. T is the daughter of M. M is the daughter of K. What is P to K?  
(a) Father  
(b) Father-in-law  
(c) Brother  
(d) Son-in-law
40. The sum of  $\frac{1}{3.9} + \frac{1}{9.15} + \frac{1}{15.21} + \frac{1}{21.27} + \dots + S_n$   
(a)  $\frac{n}{3(6n+1)}$   
(b)  $\frac{n}{3(6n+3)}$   
(c)  $\frac{n}{6n+3}$   
(d) none of these
41. Mid values are also called  
(a) Lower limit  
(b) Upper limit  
(c) Class mark  
(d) None
42. The shape of Ogive Curve is  
(a) j shape  
(b) S shape  
(c) u shape  
(d) none of these
43. Statistics Analyses:  
(a) Qualitative  
(b) Quantitative  
(c) Either Qualitative or Quantitative  
(d) Both Quantitative and Qualitative
44. Frequency Polygon is meant for -----frequency distribution.  
(a) Single  
(b) Double  
(c) Multi  
(d) None of the above
45. Ogive is also called as  
(a) frequency graph  
(b) cumulative frequency graph  
(c) Histogram  
(d) None of these
46. There are \_\_\_\_\_ types of frequency curves.  
(a) 1  
(b) 2  
(c) 3  
(d) 4

47. The Bar graph is -----dimensional
- one
  - two
  - three
  - none of these
48. If the mean of the set of observations  $x_1, x_2, x_3, \dots, x_n$ , is  $\bar{X}$ , then the mean of the observation  $x_i + Ki$ , where  $i = 1, 2, 3, \dots, n$  and
- $\bar{X} + K(n+1)$
  - $\bar{X} + kn$
  - $\bar{X} + \frac{K}{n}$
  - $\bar{X} + \frac{K}{2}(n+1)$
49.  $X \sim B(8, 1/3)$  and  $y \sim B(5, 1/3)$  the probability of  $(x+y = \text{non zero})$  is
- $(2/3)^{13}$
  - $(1/3)^{13}$
  - $(2/3)^{11}$
  - none of these
50. The Geometric mean of the series  $1, k, k^2, \dots, k^n$ ; where  $k$  is constant is
- $K^{(n+1)/2}$
  - $K^{n+0.5}$
  - $K^{n+1}$
  - $K^{n/2}$
51. If  $b_{xy}$  is computed as 2.30 and  $X$  and  $U$  are related to  $3x+5u-9=0$  and  $4Y+7v+8=0$  the regression coefficient  $u$  on  $v$  is
- 2.42
  - 2.19
  - 2.78
  - none of these
52. If  $X$  and  $Y$  are independent normal Variables with mean 100, 80 respectively, and standard deviation as 4 and 3 respectively. What is the distribution of  $(X+Y)$ ?
- 180, 5
  - 180, 25
  - 90, 5
  - 180, 0
53. The present value of an annuity receivable @ Rs 10,000 pm for 7 years @ 9% pa if first installment is received immediately
- Rs 6,26,200
  - Rs 6,16,200
  - Rs 6.06,200
  - none of these
54. The cost of asset if an amount of Rs 25,000m pm is payable for 6 years to be started from the end of 5th month if rate of interest is 8% pa
- Rs 13,89,800
  - Rs 13,86,900
  - Rs 13,54,800
  - None of these
55. The MD about the Mean for the data 6,9,11,10,12,12
- 1.47
  - 1.57
  - 1.67
  - 1.87

56. In a Corporate house with average salary of Rs 40,000 and Standard deviation as Rs 11,000 if 570 workers draw less than Rs 18,000. The total number of workers in the corporate house are  
 (a) 25,000  
 (b) 21,000  
 (c) 24,000  
 (d) None of these
57. If the word COMMERCE is written in different ways find probability vowels and consonants will occupy same places.  
 (a)  $\frac{1}{28}$   
 (b)  $\frac{1}{56}$   
 (c)  $\frac{1}{14}$   
 (d) None of these
58. The SD for the data 6, 9, 10, 3, 7 is  
 (a) 2.35  
 (b) 2.45  
 (c) 2.55  
 (d) 2.65
59. If  $P(A) = \frac{1}{2}$  and  $P(B) = \frac{1}{3}$  then  $P(A/B) =$   
 (a)  $\frac{1}{2}$   
 (b)  $\frac{1}{6}$   
 (c)  $\frac{1}{3}$   
 (d) none of these
60. The odds in favour of solving the problem by A IS 5:8 and odds against B solving the same is 4:7 find odds against Problem will be solved is  
 (a) 111:32  
 (b) 32:111  
 (c) 32:143  
 (d) None of these
61. The correlation coefficient between x and y is 0.8, the correlation coefficient between u and v are  $2u + x + 4 = 0$  and  $4v + 16x + 11 = 0$   
 (a)  $r = 0.8$   
 (b)  $r = -0.8$   
 (c)  $r = 0$   
 (d)  $r = +1$
62. If two letters are taken at random from the word HOME, what is the Probability that None of the letters would be vowels?  
 (a)  $\frac{1}{6}$   
 (b)  $\frac{1}{2}$   
 (c)  $\frac{1}{3}$   
 (d)  $\frac{1}{4}$
63. Two events A & B Probabilities 0.24 and 0.52 respectively. If the probability of both A and B occurs simultaneously is 0.15. Then the probability that neither A nor B occur is 0.15, then the probabilities that neither A nor B is.  
 (a) 0.39  
 (b) 0.375  
 (c) 0.61

- (d) 0.86
64. From a bag containing 10 black and 20 white balls, 3 balls are drawn. Find the probability of getting at least 2 black balls.
- (a)  $\frac{51}{203}$   
 (b)  $\frac{102}{203}$   
 (c)  $\frac{51}{406}$   
 (d) None of these
65. A probability in statistics is given to five students A, B, C, D and E. Their chances are  $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}$ . What is the probability that the problem will be solved?
- (a)  $\frac{1}{6}$   
 (b)  $\frac{5}{6}$   
 (c) 1  
 (d) None of these
66. In a Poisson Distribution if C/V is computed as 50% find the probability of getting No success.
- (a) 10.83%  
 (b) 1.83%  
 (c) 18.30 %  
 (d) None of these
67. If X is a normal variate with mean 6 and variance 16 then the value of the probability  $P(2 \leq x \leq 10)$  is equal to.
- (a)  $2P(2 \leq x \leq 10)$   
 (b)  $2P(6 \leq X \leq 10)$   
 (c)  $P(0 \leq x \leq 6)$   
 (d)  $3P(6 \leq x \leq 10)$
68. In a symmetrical Binomial Distribution if C/V is computed as 5% the number of trials are
- (a) 400  
 (b) 300  
 (c) 625  
 (d) None of these
69. If p is increased for a fixed n; the Binomial distribution shifts to the
- (a) Right  
 (b) Left  
 (c) Above  
 (d) Below
70. If the relation between two variables x and y is given by  $2x + 3y + 4 = 0$ , then the value of the correlation coefficient between x and y is
- (a) -1  
 (b) +1  
 (c) 0  
 (d) None of these
71. For two variables x and y with the same mean the regression equations are  $y = 2x - \alpha$  and  $x = 2y - \beta$ ; what is the value of the common mean?
- (a)  $-\alpha$   
 (b)  $\beta$   
 (c) 0  
 (d)  $-\beta$
72. The ratio of the sum of n terms of two Arithmetic Progressions are in the ratio of  $2n+9 : 5n-8$ . The ratio of their 7<sup>th</sup> term is

- (a) 57:35  
 (b) 35:57  
 (c) 17:12  
 (d) none of these
73. The Mean of Binomial Distribution is 50 and standard deviation is 5 the Mode is  
 (a) 50  
 (b) 51  
 (c) 52  
 (d) None of these
74. If  $x + y, y + z, z + x$  are in the ratio 6:7:8 and  $x + y + z = 14$  then the value of  $x$  is  
 (a) 6  
 (b) 7  
 (c) 8  
 (d) 10
75. If  $2^x = 3^y = 6^z$  then  $\frac{1}{x} + \frac{1}{y} =$   
 (a)  $\frac{1}{z}$   
 (b)  $\frac{1}{z} - \frac{1}{x}$   
 (c)  $\frac{1}{z} + \frac{1}{x}$   
 (d) 0
76. Find the value of  $\log 27 + \log 8 - \log 125 / \log 6 - \log 5$  is  
 (a)  $3/2$   
 (b) 2  
 (c) 3  
 (d) None of these
77. If one root of the quadratic equation  $2x + \sqrt{3}$  is, the equation is \_\_\_\_ .  
 (a)  $x^2 - 4x + 1 = 0$   
 (b)  $x^2 - 4x + 1 = 0$   
 (c)  $x^2 - 4x - 1 = 0$   
 (d) None of these
78. The solution set of the in equation  $x + 2 > 0$  and  $2x - 6 > 0$  is  
 (a)  $(-2, \infty)$   
 (b)  $(3, \infty)$   
 (c)  $(-\infty, 2)$   
 (d)  $(-\infty, -2)$
79. A company produces two products A and B, each of which requires processing in two machines. The first machine can be used at most for 60 hours, the second machine can be used at most for 40 hours. The product A requires 2 hours on machine one and one hour on machine two. The product B requires one hour on machine one and two hours on machine two. Express above situation using linear inequalities.  
 (a)  $2x + y \leq 60$  and  $x + 2y \geq 40$ .  
 (b)  $2x + y \geq 60$  and  $x + 2y \geq 40$ .  
 (c)  $2x + y \leq 60$  and  $x + 2y \leq 40$ .  
 (d)  $2x + y \geq 60$  and  $x + 2y \leq 40$ .
80. A loan of Rs 50,00,000 is repayable in 8 years find fortnightly installment if rate of interest is @ 9% pa  
 (a) Rs 36,580  
 (b) Rs 35,680  
 (c) Rs 39,760  
 (d) None of these

81. If salvage value of an asset is reduced to 29% if depreciated on diminishing balance method @ 15%  
The age of plant is  
(a) 8 yrs 11 months  
(b) 7 yrs 8 months  
(c) 8 yrs 7 months  
(d) none of these
82. A person deposited a sum of Rs. 1,00,000 in a bank. After 2 years, he withdrew Rs. 40,000 and at the end of 5 years, he received an amount of Rs. 79,000; then the rate of simple interest is:  
(a) 6%  
(b) 5%  
(c) 10%  
(d) None of these
83. A company is considering proposal of purchasing a machine either by making full payment of Rs.4000 or by leasing it for four years at an annual rate of Rs.1250. Which course of action is preferable if the company can borrow money at 14% compounded annually? [ $P(4,0.14) = 2.9137$ ]  
(a) Leasing is not preferable  
(b) Leasing is preferable  
(c) Cannot determined  
(d) None of these
84. Anil bought a motor cycle costing Rs.1,30,000 by making a down payment of Rs.30,000 and agreeing to make equal annual payment for five years. How much would be each payment if the interest on unpaid amount be 10% compounded annually?  
(a) Rs.28379.70  
(b) Rs.26300.70  
(c) Rs.26500.70  
(d) Rs.26379.70
85. Shoba borrows Rs.50,00,000 to buy a house. If she pays equal instalments for 20 years on due basis and 10% interest on outstanding balance, what will be the equal annual instalment?  
(a) Rs.5,33,910  
(b) Rs.5,97,735  
(c) Rs.5,87,695  
(d) none of these
86. An amount of Rs 65,00,000 was invested in securities which earned @13 %pa compounding annually for first 4 years and @ 18% p.a compounding quarterly for next 5 years while there was a loss @ 11% in last one year if compounded quarterly ,The securities were sold for  
(a) Rs.2,33,87,860  
(b) Rs.2,23,65,980  
(c) Rs.2,54,45,790  
(d) none of these
87. In a manufacturing unit 1.50% items produced are defective find probability out of 300 items at least 2 are defective  
(a) .94  
(b) .06  
(c) .01  
(d) none of these
88. At six months' intervals A deposited of Rs. 1000 in a savings account which credit interest at 10% p.a., compounded semi-annually. The first deposit was made when A's son was 6 months old and last deposit was made when his son was 8 years old. The money remained in the account and was presented to the son on his 10th birthday. How much did he receive?  
(a) Rs.25740  
(b) Rs.23740

- (c) Rs.25860  
(d) Rs.28760
89.  $F(x) = x^2 + 4$  and  $g(x) = 4x - 5$  the fog is calculated as  
(a)  $16x^2 - 40x + 29$   
(b)  $16x^2 + 40x + 29$   
(c)  $16x^2 - 40x - 29$   
(d) none of these
90. A sum of money doubles itself at compound interest in 10 years if compounded monthly the rate of interest is .  
(a) 7.05%  
(b) 6.95%  
(c) 8.15%  
(d) none of these
91. The present age of a man is 8 years more than thrice the sum of ages of his twin grandsons ,8 years hence his age will be 10 years more than twice the sum of ages of his twin grand sons the age of a man when his grand sons were born was  
(a) 68 yrs  
(b) 86 yrs  
(c) 73 yrs  
(d) None of these
92. In how many ways can a committee of 3 ladies and four gents be chosen from 8 ladies and 7 gents if two particular gents either both will join or both will not join .  
(a) 840  
(b) 1960  
(c) 750  
(d) none of these
93. In how many ways can the letters of the word 'STRANGE' be arranged so that the places of vowels and consonants will remain the same  
(a) 240  
(b) 5040  
(c) 2520  
(d) none of these
94. A company charges 6000 per unit up to an order of 50 or less items and offers discount @ Rs 75 per it  
(a) 100 units  
(b) 90 units  
(c) 105 units  
(d) none of the above
95. The number of diagonals in a polygon of 6 sides  
(a) 9  
(b) 8  
(c) 6  
(d) 12
96. By selling an item @ 16 /unit the demand of product is 24 units the demand will be reduced to 12 units if prices are increased to Rs 22/unit. The maximum revenue is.  
(a) 625  
(b) 312.50  
(c) 12.50  
(d) None of the above
97. The H M of the roots of equation  $(5 + \sqrt{2})x^2 - (4 + \sqrt{5})x + (8 + 2\sqrt{5}) = 0$   
(a) 4

- (b) 6  
(c) 8  
(d) None of these
- 98.** If the word EXTEMPORE is written in different ways the probability word will start with non vowel is
- (a)  $\frac{3}{10}$   
(b)  $\frac{5}{9}$   
(c)  $\frac{4}{9}$   
(d) None of these
- 99.** If  $f(x) = \left(\frac{x^4-16}{x-2}\right)$ , then  $f(2)$  is
- (a) 32  
(b) 22  
(c) 42  
(d) None of these
- 100.** The first term of an A.P. is 100 and the sum of whose first 6 terms is 5 times the sum of the next 6 terms, then the c.d. is –
- (a) -10  
(b) 10  
(c) 5  
(d) None of these

**SPACE FOR ROUGH WORK**