

PART I - WORD KNOWLEDGE. YOU WILL HAVE 7 MINUTES TO COMPLETE.

THIS TEST HAS QUESTIONS ABOUT THE MEANING OF WORDS. EACH QUESTION HAS AN UNDERLINED WORD. YOU ARE TO DECIDE WHICH OF THE FOUR POSSIBLE ANSWERS MOST NEARLY MEANS THE SAME AS THE UNDERLINED WORD. THEN WRITE THE ANSWER ON THE APPROPRIATE SPACE ON YOUR ANSWER SHEET.

1 **SMALL** MOST NEARLY MEANS?

- A STURDY
- B ROUND
- C CHEAP
- D LITTLE

2 **INHABIT** MOST NEARLY MEANS?

- A ACQUIRE
- B LIVE IN
- C FORBID
- D LITTLE

3 **SAVORY** MOST NEARLY MEANS?

- A HEALTHFUL
- B HELPFUL
- C TASTY
- D CLEAN

4 **OBLITIRATE** MOST NEARLY MEANS?

- A TRANSLATE
- B SCATTER
- C WIPE OUT
- D BLAME

5 **UNISON** MOST NEARLY MEANS?

- A AGREEMENT
- B FIRMNESS
- C HOSTILITY
- D INDECISION

6 **NOVICE** MOST NEARLY MEANS?

- A GADGET
- B PRIEST
- C NURSEMAID
- D BEGINNER

7 **RUDIMENTS** MOST NEARLY MEANS?

- A BASIC METHODS AND PROCEDURES
- B POLITICS
- C PROMOTION OPPORTUNITIES
- D MINUTE DETAILS

8 **VAGUE** MOST NEARLY MEANS?

- A EMPTY
- B REVERENT
- C CONCEITED
- D INDISTINCT

9 **MAIM** MOST NEARLY MEANS?

- A ACCUSE
- B INSULT
- C OFFEND
- D INJURE

10 **CEASE** MOST NEARLY MEANS?

- A START
- B CHANGE
- C CONTINUE
- D STOP

11 **TURMOIL** MOST NEARLY MEANS?

- A SWELLING
- B COMMOTION
- C GREASE
- D ANGER

12 **WARY** MOST NEARLY MEANS?

- A TOUGH
- B CAREFUL
- C COWARDLY
- D FOOLHARDY

13 **IMPAIR** MOST NEARLY MEANS?

- A DIRECT
- B IMPROVE
- C WEAKEN
- D STIMULATE

14 **RAVAGE** MOST NEARLY MEANS?

- A DEVASTATE
- B SCARCITY
- C SCOLD
- D FLATTER

15 **EVASIVE** MOST NEARLY MEANS?

- A FOOLISH
- B INFORMED
- C REVEALING
- D SECRETIVE

16 **PERPETUAL** MOST NEARLY MEANS?

- A CONFOUNDING
- B IMPOSING
- C SENSATIONAL
- D ENDURING

17 **CHIDE** MOST NEARLY MEANS?

- A COUNSEL EXPERTLY
- B MAKE YOUNG
- C SCOLD
- D MILD

18 THE WIND IS **VARIABLE** TODAY.

- A SHIFTING
- B CHILLING
- C STEADY
- D MILD

STOP
END OF PART ONE

PART II - ARITHMETIC REASONING - YOU WILL HAVE FOURTEEN (14) MINUTES:

THIS IS A TEST OF YOUR ABILITY TO SOLVE ARITHMETIC PROBLEMS. USE YOUR SCRATCH PAPER FOR ANY FIGURING YOU NEED TO DO.

- 1** TWO AUTOMOBILES START TOGETHER FROM THE SAME PLACE AND TRAVEL ALONG THE SAME ROUTE. THE FIRST AVERAGES 40 MPH. THE SECOND 55 MPH. HOW MANY MILES FURTHER ALONG THE ROUTE IS THE SECOND AUTO AT THE END OF THE 5TH HOUR?
- A 55 X 5
B 55 - 40
C (55X5) - (40X5)
D 55/5 - 40/5
- 2** FIND THE TOTAL THICKNESS OF TWO PIECES OF WOOD THAT A CARPENTER GLUED TOGETHER; IF ONE IS $\frac{5}{16}$ INCHES AND THE OTHER IS $\frac{7}{8}$ INCHES THICK?
- A 1- $\frac{1}{4}$ INCHES
B 1- $\frac{3}{16}$ INCHES
C 1- $\frac{1}{8}$ INCHES
D 1- $\frac{5}{8}$ INCHES
- 3** AN AVERAGE BATH TUB USES 8 GALLONS OF WATER, AND AN AVERAGE SHOWER USES 6 GALLONS. TO PROVIDE BATHS FOR 60 MEN; HOW MUCH MORE WATER WILL BE NEEDED IF TUBS ARE USED INSTEAD OF SHOWERS?
- A 30 GALLONS
B 120 GALLONS
C 360 GALLONS
D 480 GALLONS
- 4** A CARPENTER CUT THREE 4ft 6in SHELVES FROM A 14ft BOARD. HOW LONG A PIECE WAS LEFT OVER?
- 5** A FATHER WALKS 36 MILES IN 12 HOURS, WHILE HIS SON COVERS THE SAME DISTANCE ON A BICYCLE AT TWICE THE FATHERS RATE OF SPEED. AT THIS RATE, HOW MANY MILES WOULD THE BICYCLE RIDER TRAVEL IN 9 HOURS?
- A 54 MILES
B 52- $\frac{1}{2}$ MILES
C 49 MILES
D 48 MILES
- 6** A BIRD FLIES $\frac{2}{3}$ OF A MILE PER MINUTE. HOW MANY MILES PER HOUR IS IT FLYING?
- A 20
B 30
C 40
D 60
- 7** OUT OF 20 ATTEMPTS, A BASKETBALL PLAYER SCORED 8 TIMES. WHAT PERCENT OF HIS CHANCES DID HE SCORE?
- A 8%
B 16%
C 32%
D 40%
- 8** HOW MANY 35-PASSENGER BUSES WILL IT TAKE TO CARRY 140 PEOPLE?
- A 4
B 3
C 5
D 6

- A 6in
- B 1ft 6in
- C 2ft
- D 1ft

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- 9** IF 12 MEN ARE NEEDED TO RUN 4 MACHINES. HOW MANY MEN ARE NEEDED TO RUN 20?
- A 24
 - B 48
 - C 60
 - D 80
- 10** A POLE 24 FEET HIGH HAS A SHADOW 8 FEET LONG. A NEARBY POLE IS 72 FEET HIGH. HOW LONG IS IT'S SHADOW?
- A 16
 - B 24
 - C 32
 - D 56
- 11** A MAN IS PAID \$26.00 FOR 8 HOURS OF WORK. HOW MUCH SHOULD THIS MAN BE PAID FOR WORKING 37 HOURS AT THE SAME HOURLY RATE?
- A \$127.00
 - B \$135.00
 - C \$120.25
 - D \$118.50
- 12** SOUP ORDINARILY PRICED AT 2 CANS FOR 33 CENTS MAY BE PURCHASED IN LOTS OF ONE DOZEN FOR \$1.74. WHAT IS THE SAVINGS WHEN IT IS PURCHASED IN THIS WAY?
- A $\frac{2}{3}$ CENTS
 - B 2 CENTS
 - C 8 CENTS
 - D $9\frac{1}{2}$ CENTS
- 13** IT COST A MAN \$13.50 TO TAKE A LADY OUT TO DINNER. SIXTY PERCENT IS FOR MOVIE TICKETS. WHAT IS THE COST FOR EACH TICKET?
- A \$3.95
 - B \$4.05
- 14** IF THE FOLLOWING SERIES WILL CONTINUE IN THE SAME PATTERN. WHAT IS THE NEXT NUMBER IN THE SERIES? **1,10,7,16,?**
- A 10
 - B 13
 - C 14
 - D 25
- 15** MARY PUT IN A TOTAL OF 16 $\frac{1}{2}$ HOURS BABYSITTING DURING 5 DAYS OF THE PAST WEEK. WHAT WAS HER AVERAGE WORK DAY?
- A 3 HOURS
 - B 3 HOURS, 15 MINUTES
 - C 3 HOURS, 18 MINUTES
 - D 3 HOURS, 25 MINUTES

STOP

- C \$5.40
- D \$8.10

END OF PART TWO

PART III - PARAGRAPH COMPREHENSION - YOU WILL HAVE SEVEN (7) MINUTES:

THIS IS A TEST OF YOUR ABILITY TO UNDERSTAND WHAT YOU HAVE READ. IN THIS SECTION YOU WILL HAVE ONE OR MORE PARAGRAPHS OF READING MATERIAL FOLLOWED BY FOUR COMPLETE STATEMENTS OR QUESTIONS. YOU ARE TO READ THE PARAGRAPH AND SELECT ONE OF THE FOUR LETTERED CHOICES WHICH BEST COMPLETES THE STATEMENT OR ANSWERS THE QUESTION. WHEN YOU HAVE SELECTED YOUR ANSWER, WRITE THE CORRECT NUMBERED LETTER ON YOUR ANSWER SHEET.

- 1 THE DUTY OF THE LIGHTHOUSE KEEPER IS TO KEEP THE LIGHT BURNING NO MATTER WHAT HAPPENS, SO THAT SHIPS WILL BE WARNED OF THE PRESENCE OF DANGEROUS ROCKS. IF A SHIPWRECK SHOULD OCCUR NEAR THE LIGHTHOUSE, EVEN THOUGH HE WOULD LIKE TO AID IN THE RESCUE OF IT'S CREW AND PASSENGERS, THE LIGHTHOUSE KEEPER MUST.....
 - A STAY AT HIS LIGHT
 - B RUSH TO THEIR AID
 - C TURN OUT THE LIGHT
 - D QUICKLY SOUND THE SIREN

- 2 IN CERTAIN AREAS WATER IS SO SCARCE THAT EVERY ATTEMPT IS MADE TO CONSERVE IT. FOR INSTANCE, ON ONE OASIS IN THE SAHARA DESERT, THE AMOUNT OF WATER NECESSARY FOR EACH DATE PALM TREE IS CAREFULLY DETERMINED. HOW MUCH WATER IS EACH TREE GIVEN?
 - A NO WATER AT ALL
 - B EXACTLEY THE AMOUNT REQUIRED
 - C WATER ONLY IF IT IS HEALTHY
 - D WATER ON ALTERNATE DAYS

- 3 TWENTY-FIVE PERCENT OF ALL HOUSEHOLD BURGLARIES CAN BE ATTRIBUTED TO UNLOCKED WINDOWS OR DOORS. CRIME IS THE RESULT OF OPPORTUNITY PLUS DESIRE. TO PREVENT CRIME, IT IS EACH INDIVIDUAL'S RESPONSIBILITY TO.....
 - A PROVIDE THE OPPORTUNITY
 - B PROVIDE THE DESIRE
 - C PREVENT THE OPPORTUNITY
 - D PREVENT THE DESIRE

- 4 FROM A BUILDING DESIGNER'S STANDPOINT, THREE THINGS THAT MAKE A HOME LIVABLE ARE THE CLIENT, THE BUILDING SITE, AND THE AMOUNT OF MONEY THE CLIENT HAS TO SPEND. ACCORDING TO THE PASSAGE, TO MAKE A HOME LIVABLE.....

- A THE PROSPECTIVE PIECE OF LAND MAKES LITTLE DIFFERENCE
- B IT CAN BE BUILT ON ANY PIECE OF LAND
- C THE DESIGN MUST FIT THE OWNER'S INCOME AND SITE
- D THE DESIGN MUST FIT THE DESIGNER'S INCOME

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- 5 A BUSINESS LETTER HAS SIX PARTS INSTEAD OF FIVE. THE EXTRA PART IS CALLED THE INSIDE ADDRESS. IT IS PLACED JUST ABOVE THE SALUTATION. THE OTHER FIVE PARTS ARE JUST THE SAME AS FOR THE FRIENDLY LETTER.

WHAT IS THE EXTRA PART OF THE BUSINESS LETTER?

- A THE SALUTATION
- B A FRIENDLY LETTER
- C THE INSIDE ADDRESS
- D THE SIX PARTS INSTEAD OF FIVE

- 6 USE THE CORRECT SPELLING, PUNCTUATION, LETTER FORM, AND PARAGRAPHING. WHEN YOU HAVE FINISHED, READ YOUR LETTER THROUGH AND REWRITE IT IF YOU ARE NOT SATISFIED WITH ANY PART OF IT.

WHEN SHOULD YOU REWRITE YOUR LETTER?

- A WHEN IT SOUNDS GOOD
- B WHEN YOU USE CORRECT SPELLING
- C IF YOU ARE SATISFIED WITH ALL PARTS OF IT
- D IF YOU ARE NOT SATISFIED WITH ANY PART OF IT

- 7 MINERAL-RICH ZAIRE IS ONE OF THE WORLD'S MOST IMPORTANT SOURCES OF URANIUM. IT ALSO IS A SOURCE OF COPPER, TIN, DIAMONDS (MAINLY INDUSTRIAL), GOLD, COBALT, AND ZINC. AGRICULTURAL PRODUCTS INCLUDE PALM OIL AND KERNELS, COTTONSEED, RUBBER, COTTON LINT, COFFEE, PEANUTS, SWEET POTATOES AND YAMS, AND CASSAVA.

HOW MANY COTTON PRODUCTS DOES ZAIRE PRODUCE?

- A ONE
- B THREE
- C SIX
- D TWO

- 8 THE SENATE OF THE UNITED STATES SHALL BE COMPOSED OF TWO SENATORS FROM EACH STATE CHOSEN BY THE LEGISLATURE THEREOF, FOR SIX YEARS, AND EACH SENATOR SHALL HAVE ONE VOTE. IMMEDIATELY AFTER THEY SHALL BE DIVIDED AS EQUALLY AS MAY BE INTO THREE CLASSES. THE SEATS OF SENATORS OF THE FIRST CLASS SHALL BE VACATED AT THE EXPIRATION OF THE FOURTH YEAR, AND THE THIRD CLASS AT THE EXPIRATION OF THE SIXTH YEAR, SO THAT ONE-THIRD MAY BE CHOSEN EVERY SECOND YEAR.

THE PURPOSE OF THE THREE CLASSES IS?

- A KEEP THE SENATE AT AN EQUAL LEVEL
- B KEEP THEIR TERM AT SIX YEARS

- C SO THAT ONE-THIRD MAY BE CHOSEN EVERY SECOND YEAR
- D PROVIDE THE SENATORS WITH ONE VOTE

STOP - END OF PART THREE

PART IV - MATHEMATICS KNOWLEDGE - YOU WILL HAVE TWELVE (12) MINUTES:

- 1 WHICH OF THE FOLLOWING IS THE SMALLEST PRIME NUMBER GREATER THAN 200?
- A 201
 - B 205
 - C 211
 - D 214
- 2 IF 40% IS EQUAL TO THE FRACTION $X/30$. WHAT IS THE VALUE OF X?
- A 0.4
 - B 15
 - C 1,200
 - D 12
- 3 THE EXPRESSION "5 FACTORIAL" EQUALS:
- A 125
 - B 120
 - C 25
 - D 10
- 4 WHAT IS THE RESULT OF SUBTRACTING: $-3X^2 - 5X + 1$ FROM $8X^2 - 2X - 9$?
- A $5X^2 = 3X - 10$
 - B $-5X^2 - 3X - 10$
 - C $5X^2 - 7X - 8$
 - D $-5X^2 - 7X + 8$
- 5 WHAT IS THE MEANING OF THE STATEMENT: $-30 < -5$?
- A 30 IS GREATER THAN 5
 - B 30 IS LESS THAN MINUS 5
 - C MINUS 30 IS LESS THAN MINUS 5
 - D MINUS 30 IS GREATER THAN MINUS 5
- 6 SOLVE FOR X: $8X - 2 - 5X = 8$
- A $X = 13$
 - B $X = 2 \frac{1}{2}$
- 7 A WOMAN HAS \$500 IN A BANK ACCOUNT. EVERY WEEK SHE WRITES OUT A CHECK FOR \$50. IF SHE DOESN'T MAKE ANY NEW DEPOSITS, WHAT WILL HER BANK ACCOUNT HAVE X WEEKS FROM NOW?
- A $\$500 + \$50X$
 - B $\$500 - \$50X$
 - C $\$500 - X$
 - D $\$500 + \$50 + X$
- 8 WHEN THE TEMPERATURE IS 20 DEGREES CELSIUS "C", WHAT IS IT ON THE FAHRENHEIT "F" SCALE? (USE THE FOLLOWING FORMULA)
- DEGREES FARHENHEIT = $\frac{9}{5}$ "C" + 32*
- A $93 \frac{3}{5}$ DEGREES F
 - B 78 DEGREES F
 - C 62 DEGREES F
 - D 68 DEGREES F
- 9 THE PERIMETER OF A RECTANGLE IS 38". IF THE LENGTH IS 3" MORE THAN THE WIDTH, FIND THE WIDTH.
- A $17 \frac{1}{2}$ "
 - B 8"
 - C 11"
 - D $14 \frac{1}{2}$ "
- 10 FIND THE SQUARE ROOT OF 85 CORRECT TO THE NEAREST TENTH.
- A 9.1
 - B 9.2
 - C 9.3
 - D 9.4
- 11 IF $5X = 30$, THEN X IS EQUAL TO:
- A 150

- C $x=3\frac{1}{3}$
- D $x=7$

- B 25
- C 6
- D 0.6

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12 WHAT IS THE PRODUCT OF $(A-5)$ AND $(A+3)$?

- A $A^2 - 15$
- B $A^2 + 2A - 15$
- C $A^2 - 2A - 15$
- D $A^2 - 2$

13 SOLVE FOR Z: $3Z-5+2Z+25-5Z$

- A $Z = 0$
- B $Z = 3$
- C $Z = -3$
- D $Z = \text{NO SOLUTION}$

STOP
END OF TEST