Undergraduate, Postgraduate and Continuing Education Coordinator Office

Graduate Admission Test (GAT)

Model Exam

THIS EXAMINATION IS DESIGNED TO ASSESS YOUR KNOWLEDGE, REASONING ABILITY, AND ANALYTICAL SKILLS ACROSS THE RESPECTIVE SECTIONS.

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SECTION ONE: VERBAL REASONING

Part 1: Vocabulary (Synonyms, Antonyms, Analogies)

Analogy

Direction: Items 1 to 8 deal with verbal analogy questions. A related pair of words written in **CAPITAL** letters is followed by four/five words or pairs of words or phrases. Select the letter with a pair that has the same relationship with the original **CAPITALIZED** pair and circle/blacken the letter of your choice.

1) _____ : **TRAIL :: GRAIN : GRAIL**

(A) train **(B)** path **(C)** wheat **(D)** holy

2) MECHANIC is to **GARAGE** as **FARMER** is to:

(A) Farm **(B)** Harvest **(C)** Field **(D)** Produce

3) KITTEN : _____ :: **SOLDIER** : **ARMY**

(A) cat **(B)** litter **(C)** puppy **(D)** meow

4) LAWLESS : **ORDER**

(A) Jail : Prison
(B) Hostage : Detained
(C) Trouble : Punishment
(D) Captive : Freed

5) STUDENT : **DORMITORY**

(A) curtain : stage
(B) prisoner : jail
(C) alphabet : letter
(D) shirt : clothing
(E) skull : brain

6) BANANA : **PEEL**

(A) ventricle : heart
(B) door : knob
(C) bark : tree
(D) orange : rind
(E) section : orange

7) GARBAGE: DUSTBIN

(A) Tree: Honey
(B) Medicine: Capsule
(C) angles: Hand
(D) Kitchen: House

8) CARPENTER: SAW

(A) athlete: runner
(B) assembly: member
(C) mason: wall
(D) reaper: sickle

ANTONYMS

Directions: In each of the following questions **(9-12)**, a word written in capital letters is followed by four words or phrases. Pick the one most nearly opposite in meaning with the capitalized word.

9) BUSY

(A) Idle **(B)** Hustling **(C)** Industrious **(D)** Unavailable

10) ABUNDANT:

(A) ample **(B)** enough **(C)** Great **(D)** scant

11) Which of the following is the antonym of the word "**RIGID**"?

(A) Flexible **(B)** Inflexible **(C)** Stiff **(D)** Unyielding

12) SURRENDER

(A) Hand over **(B)** Conquer **(C)** Consign **(D)** Roll over

SYNONYMS

Directions (13-16): Given below are statements with highlighted (bold faced) words. You are required to find the word from the given alternatives that can be replaced with the highlighted word without changing the meaning of the sentence.

13) They say he is an **uncouth** person, but my perception is something different, and I enjoy being with him.

(A) friendly **(B)** Ill-mannered **(C)** Polite **(D)** Funny

14) The decision regarding the closure of the company was made over the **vociferous** objections by the employees.

(A) Dedicated **(B)** Violent **(C)** Silent **(D)** Loud

15) Although the treatment was **abortive**, the doctor learned a lot from the response by the medicine.

(A) Productive **(B)** Great **(C)** Ineffective **(D)** Harmless

16) The children in the party were not attracted to the **vapid** entertainment.

(A) Funny **(B)** Grand **(C)** Dull **(D)** Serious

Part 2: Sentence Completion/Short texts

Direction (17-21): Each sentence below has one or two blank spaces and each blank shows that something has been omitted. Choose the correct word(s) from the given alternatives that can complete the sentence.

17) The driver suddenly applied the brakes when he saw a _____ truck ahead of him.

(A) Stationary **(B)** Moving **(C)** Static **(D)** Immobile

18) Their conversation was unsettling, for the gravity of their topic contrasted so oddly with the _____ of their tone.

(A) Uniqueness **(B)** Rapidity **(C)** Lightness **(D)** Precision

19) Although its publicity has been _____ the film itself is intelligent, well-acted, handsomely produced and altogether _____.

(A) Tasteless; Respectable
(B) Extensive; Moderate
(C) Sophisticated; Moderate
(D) Risqué; Crude

20) A set of footprints was visible, leading from the porch to the driveway. Another set, as fresh, marked the ground from the front door to the driveway. A third set, smaller but similarly puddled with the ongoing rain, marked the earth between the sandbox and the driveway. It seemed the family had recently converged and driven, or been driven away. What technique of idea development is used in the paragraph?

(A) Induction **(B)** Analogies **(C)** Contrast **(D)** Deduction

21) "If you give a man a fish, you feed him today. If you teach him how to fish, you feed him forever." This sentence is the same as:

(A) Give a man a fish to feed him.
(B) Give a man a fish to feed him forever.
(C) Teach a man how to fish to feed him.
(D) Teach a man how to eat fish to feed him.

Part 3: Reading Comprehension

Passage 1 (Questions 22-24)

When we are suddenly confronted with any terrible danger, the change of nature we undergo is equally great. In some cases, **fear paralyses us**. Like animals, we stand still, powerless to move a step in fright or to lift a hand in defence of our lives, and sometimes we are **seized with panic**, and again, act more like the inferior animals than rational beings. On the other hand, frequently in cases of

sudden extreme peril, which cannot be escaped by fright, and must be instantly faced, even the most timid men at once as if by miracle, **become possessed of the necessary courage**, sharp quick apprehension, and swift decision. This is a miracle very common in nature. Man and the inferior animals alike, when confronted with almost certain death 'gather resolution from despair' but there can really be no trace of so debilitating a feeling in the person fighting, or prepared to fight for dear life. At such times, the mind is clearer than it has ever been; the nerves are steel, there is nothing felt but a wonderful strength and daring. Looking back at certain perilous moments in my own life, I remember them with a kind of joy, not that there was any joyful excitement then; but because they brought me a new experience, a new nature, as it were and lifted me for a time above myself.

22) An appropriate title for the above passage would be:

(A) The change of nature
(B) Courage and panic
(C) The will to fight
(D) The miracle of confronting danger

23) The author names three different ways in which a man may react to sudden danger. What are they?

(A) He may be paralyzed with fear, or seized with panic, or as if by miracle, become possessed of the necessary courage, and face the danger
(B) He may be paralyzed with fear, run away or fight
(C) He may flee in panic, or fight back or stand still
(D) He may be paralyzed with fear, seized with panic or act like an inferior animal

24) The distinction between 'inferior animals' and 'rational beings' is that:

(A) The latter are stronger
(B) The latter are capable of reasoning things out whereas the former cannot do so
(C) The former are incapable of fighting
(D) The latter are clever

PASSAGE 2: Read the following passage carefully and answer questions 25-29 based on it.

Huge waves wreak terrific damage when they crash on the shores of distant lands or continents. Under a perfectly sunny sky and from an apparently calm sea, a wall of water may break twenty or thirty feet high over beaches and waterfronts, crushing houses and drowning unsuspecting residents and bathers in its path.

How are these waves formed? When a submarine earthquake occurs, it is likely to set up a tremendous amount of shock, disturbing the quiet waters of the deep ocean. This disturbance travels to the surface and forms a huge swell in the

ocean many miles across. It rolls outward in all directions, and the water lowers in the center as another swell looms up. Thus a series of concentric swells are formed similar to those made when a coin or small pebble is dropped into a basin of water. The big difference is in the size. Each of the concentric rings of basin water traveling out toward the edge is only about an inch across and less than a quarter of an inch high. The swells in the ocean are sometimes nearly a mile wide and rise to several multiple of ten feet in height.

Many of us have heard about these waves, called "tsunami". Nothing was done about tsunamis until after World War II. An underwater earthquake in the Aleutian Islands could start a swell that would break along the shores and cause severe damage. These waves travel hundreds of miles an hour, and one can understand how they would crash!

25) One surprising aspect of the waves discussed in the passage is the fact that they

(A) are formed in concentric patterns
(B) often strike during clear weather
(C) arise under conditions of cold temperature
(D) are produced by deep swells

26) It is believed that the waves are caused by

(A) seismic changes
(B) concentric time belts
(C) underwater earthquakes
(D) storms

27) The normal maximum width of the waves is approximately

(A) one mile **(B)** five miles **(C)** five feet **(D)** ten feet

28) Nothing was done about the waves until

(A) deaths occurred
(B) a solution was found
(C) millions of dollars worth of damage was incurred
(D) the outbreak of World War II

29) The movement of the waves has been measured at a speed of

(A) 1 mile an hour
(B) 50 miles an hour
(C) 100 miles an hour
(D) more than a hundred miles an hour

PASSAGE 3: Read the following paragraph carefully and answer questions 30-33 based on it.

Man is not destined to vanish. He can be killed, but he cannot be destroyed, because his soul is deathless and his spirit is irrepressible. Therefore, though the situation seems dark in the context of the confrontation between the superpowers, the silver lining is provided by amazing phenomenon that the very nations which have spent incalculable resources and energy for the production of deadly weapons are desperately trying to find out how they might never be used. They threaten each other, intimidate each other and go to the brink, but before the total hour arrives they withdraw from the brink.

30) The **main point** from the author's view is that

(A) Man's soul and spirit cannot be destroyed by superpowers.

(B) Man's destiny is not fully clear or visible.

(C) Man's soul and spirit are immortal.

(D) Man's safety is assured by the delicate balance of power in terms of nuclear weapons.

(E) Human society will survive despite the serious threat of total annihilation.

31) The phrase 'go to the brink' in the passage means

(A) Retreating from extreme danger.

(B) Declare war on each other.

(C) Advance to the stage of war but not engaging in it.

(D) Negotiate for peace.

(E) Commit suicide.

32) According to the author's opinion

(A) Huge stockpiles of destructive weapons have so far saved mankind from a catastrophe.

(B) Superpowers have at last realized the need for abandoning the production of lethal weapons.

(C) Mankind is heading towards complete destruction.

(D) Nations in possession of huge stockpiles of lethal weapons are trying hard to avoid actual conflict.

(E) There is a Silver lining over the production of deadly weapons.

33) 'Irrepressible' in the second line means

(A) incompatible **(B)** strong **(C)** oppressive **(D)** unrestrainable

Part 4: Grammar

Choose the word or words that best complete (s) each sentence.

34) If I _____ time, I would have purchased it yesterday.

(A) had had **(B)** would have **(C)** would had **(D)** had have

35) When we lived near the ocean, our family _____ to the beach every summer.

(A) were going **(B)** used to go **(C)** did go **(D)** goes

36) If you marry the right person, _____ happy for the rest of your life.

(A) you've been **(B)** you'll be **(C)** you'd be **(D)** you're

37) A: I enjoy _____ out once a week.
B: So do I.

(A) eating **(B)** eat **(C)** to eat **(D)** ate

38) A: This food is terrible.
B: Oh, I'm sorry. I'm not good _____ cooking.

(A) at **(B)** on **(C)** for **(D)** in

39) I _____ an injection by the nurse.

(A) am giving **(B)** was given **(C)** gave **(D)** have given

40) I was writing an essay on the kitchen table when I _____ coffee on it.

(A) am spilling **(B)** spilled **(C)** was spilling **(D)** I am spilled

41) My trip to Hawaii was _____. I feel completely rested now.

(A) annoying **(B)** annoyed **(C)** annoy **(D)** annoyance

42) I'm reading a novel, but it is really hard to understand. I'm really _____ it.

(A) confused **(B)** confusing **(C)** confused by **(D)** confuse

43) A: What would your mother say if you dyed your hair green?
B: If I dyed my hair green, my mother _____ scream.

(A) must **(B)** can **(C)** would **(D)** will

44) A: I failed my English test. What should I have done differently?
B: You _____ harder and longer.

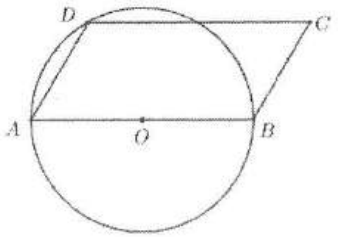
(A) will have
(B) should study
(C) would have studied
(D) should have studied

45) Direct statement: Mary said, "I'm very happy." Reported statement: Mary said _____ very happy.

(A) that she has been
(B) that she is being
(C) that she was
(D) that she is

SECTION TWO: ANALYTICAL REASONING: Choose the correct answer from the given alternatives.

46) The angle at A of the parallelogram $ABCD$ is $60°$. $\overline{AO} = 4cm$ is the radius of the circle through A, B and D. What is the area of $ABCD$?



(A) $\frac{9}{4}\sqrt{3}$ cm^2 **(B)** $\frac{5}{2}\sqrt{3}$ cm^2 **(C)** $6\sqrt{3}$ cm^2 **(D)** $16\sqrt{3}$ cm^2

47) If 60% of members of a club is men, what is the ratio of men to women in the club?

(A) 5:4 **(B)** 4:3 **(C)** 5:3 **(D)** 3:2

48) Given that $x^2 + xy = 0$, $x \neq 0$, compare the quantities in Column A and Column B. **Select one of the following choices:**

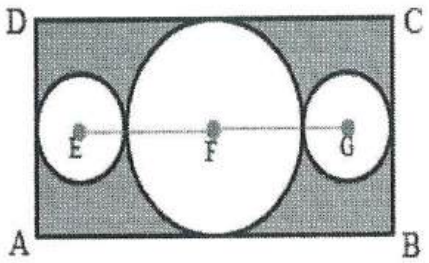
Column A	**Column B**
x^2	y^2

(A) two quantities are equal.
(B) cannot be determined.
(C) quantity B is greater.
(D) quantity A is greater.

49) A committee of 3 men and 4 women is to be formed from the candidates consisting of 7 men and 8 women. In how many ways can the committee be formed?

(A) 150 **(B)** 1720 **(C)** 2450 **(D)** 105

50) In the figure below, $ABCD$ is a rectangle containing three circles whose centers are on a line segment parallel to AB at E, F, and G. The two smaller circles have equal radius, which is half of the radius of the larger circle. If the area of each of the small circles is π cm^2, what is the area of the shaded region (in cm^2)?



(A) $32 - 4\pi$ **(B)** $32 - 6\pi$ **(C)** $24 - 4\pi$ **(D)** $24 - 6\pi$

51) In how many different ways can the letters of the word '**COMPARE**' be arranged so that the vowels always come together?

(A) 720 **(B)** 840 **(C)** 144 **(D)** 120

52) What is the area of a circle whose radius is the diagonal of a square whose area is 9?

(A) 8π **(B)** 18π **(C)** 3π **(D)** 36π

53) If $p + 1 < 3p + 5$, then:

(A) $p < -2$ **(B)** $p > -2$ **(C)** $p = 0$ **(D)** $p > 2$

54) The circumference of a circle is $x\pi$ units, and the area of the circle is $y\pi$ square units. If $x = y$, then radius of the circle is:

(A) 1 **(B)** 2 **(C)** 3π **(D)** 2π

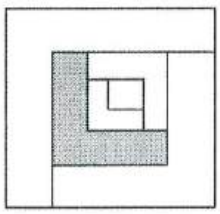
55) If $a + 2b = x$ and $a - 2b = y$, which of the following expression is equal to ab?

(A) $\frac{x-y}{4}$ **(B)** $\frac{x^2-y^2}{4}$ **(C)** $\frac{x^2-y^2}{8}$ **(D)** $\frac{x^2-y^2}{16}$

56) If $a^2 = 17$, then $(a+1)(a-1) = ?$

(A) 15 **(B)** 12 **(C)** 16 **(D)** 9

57) In the figure below, each quadrilateral is a square. The perimeter of each inner square is two-thirds of the perimeter of the next square containing it. If the area of the smallest square is 8 cm^2, what is the area of the shaded region (in cm^2)?



(A) $\frac{405}{16}$ **(B)** $\frac{405}{8}$ **(C)** $\frac{243}{8}$ **(D)** $\frac{243}{4}$

58) A man walked diagonally across a rectangular plot of land from one of its corner to the opposite. If the plot is 30 m by 40 m, what percentage of distance did he save by not walking along the edges?

(A) 45% **(B)** 71.4% **(C)** 28.6% **(D)** 54.5%

59) The circumference of a circle is $x\pi$ units, and the area of the circle is $y\pi$ square units. If $x = y$, then radius of the circle is:

(A) 1 **(B)** 2 **(C)** 3π **(D)** 2π

60) The ratio of boys to girls in a certain classroom was 2 : 3. If boys represented five more than one-third of the class, how many people were in the classroom?

(A) 30 **(B)** 45 **(C)** 75 **(D)** 60

61) What is the average of 5^{30}, 5^{60}, 5^{17}, 5^{13} and 5^{90}?

(A) 5^{210} **(C)** 5^{205}

(B) 5^{209} **(D)** $5^{29} + 5^{59} + 5^{16} + 5^{12} + 5^{89}$

62) If an equilateral triangle and a square have the same perimeter, what is the ratio of the lengths of the sides of the equilateral triangle to the lengths of the sides of the square?

(A) 3 : 4 **(B)** 4 : 3 **(C)** 1 : 2 **(D)** 1 : 3

63) If the sum of the two integers is 42 and their difference is 22. Then the greater of the two integers is:

(A) 8 **(B)** 10 **(C)** 25 **(D)** 32

64) Abebe, Beletu and Kedir combined their money to purchase a laptop. Together, they paid a total of \$490 for the laptop, including VAT. Abebe paid \$50 more than Beletu paid. Beletu paid twice as much as Kedir paid. How much did Abebe pay?

(A) \$108 **(B)** \$176 **(C)** \$226 **(D)** \$295

65) In an office with 30 trainees and a team lead, the average age of the whole team decreases by 1 year when team lead is excluded. If the average age of the whole team is 27 years, then what is the age of the team lead?

(A) 54 years **(B)** 55 years **(C)** 56 years **(D)** 57 years

66) 20 friends went to a movie theatre. The average cost of the movie ticket for 19 friends was \$120. But one of the friends paid \$38 more than the average cost for all the 20 friends. What was the total amount paid by all of them together?

(A) \$2,438 **(B)** \$2,440 **(C)** \$2,204 **(D)** \$2,140

67) If A means 'Multiplication', B means 'Division', C means 'Addition' and D means 'Subtraction' then what is the value of 306 B 34 A 7 D 7 C 5?

(A) 32 **(B)** 61 **(C)** 54 **(D)** 43

68) What is the sum of all the factors of 28?

(A) 56 **(B)** 55 **(C)** 28 **(D)** 68

69) If B is $\frac{5}{2}$ times of A then A is what percentage of B?

(A) 40% **(B)** 20% **(C)** 60% **(D)** 50%

70) If $\log 2 = 0.3010$ and $\log 3 = 0.4771$, the value of $\log_5^{512}$ is

(A) 2.87 **(B)** 2.967 **(C)** 3.876 **(D)** 3.912

71) In the series, $20, 24, 32, 48, x, 144$ find the missing number or term x?

(A) 60 **(B)** 70 **(C)** 80 **(D)** 90

72) In an election between 2 contestants. 20% of the total votes were declared invalid and one of the contestants got 35% of the total valid votes. If the total number of votes in that election is 4,850 then what is the total number of valid votes that the other contestant got?

(A) 2,502 **(B)** 2,512 **(C)** 2,522 **(D)** 2,436

73) The total share of A, B and C is 669 in such a way that the ratio of the shares of A to B is 17:27 and that of B to C is 2:5. What is the share of C?

(A) 135 **(B)** 270 **(C)** 223 **(D)** 405

74) Team members can complete a job in 20 days but with the help of their team leader, they can complete it in 15 days. In how many days can the team leader alone complete the job?

(A) 20 days **(B)** 60 days **(C)** 40 days **(D)** 80 days

75) There are two examination rooms A and B. If 10 students are sent from A to B, then the number of students in each room is the same. If 20 candidates are sent from B to A, then the number of students in A is double the number of students in B. The number of students in room A is:

(A) 20 **(B)** 60 **(C)** 80 **(D)** 100

76) The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Birr 4000. The total price of 12 chairs and 3 tables is:

(A) 3500 **(B)** 3900 **(C)** 3750 **(D)** 3840

77) The sum of a number and its reciprocal is thrice the difference of the number and its reciprocal. The number is:

(A) $\sqrt{2}$ **(B)** $\frac{1}{\sqrt{2}}$ **(C)** $\pm\sqrt{2}$ **(D)** $\frac{3}{2}$

78) When the integer k is divided by 17, the quotient is p and the remainder is 5. When k is divided by 23, the quotient is q and the remainder is 14. Which of the following is true?

(A) $23p + 17q = 19$ **(B)** $14p + 5q = 6$ **(C)** $17p - 23q = 9$ **(D)** $5p - 14q = 6$

79) Five positive consecutive integers starting with a have average b. What is the average of 5 consecutive integers that start with b ?

(A) $a + 3$ **(B)** $a + 4$ **(C)** $a + 5$ **(D)** $a + 6$

80) If x, y and z are non-positive distinct integers, which of the following **must** be **true**?

I. $x+y<0$ II. $x.y>0$ III. $xyz=0$

(A) I. only **(B)** II. only **(C)** I. and II. **(D)** I. and III..

81) The value of $2024.2024-2023.2025$ is equal to:

(A) 0 **(B)** 1 **(C)** 5 **(D)** 91 **(E)** 991

82) On two parallel lines l_1 and l_2, 7 points are marked: 4 on line l_1 and 3 on line l_2. What is the total number of triangles whose vertices are at the given points?

(A) 12 **(B)** 15 **(C)** 18 **(D)** 20 **(E)** 30

83) Numbers in the cells are filled in according to one specific rule. Which number should replace the letter X?

23	−1	12	10
6	17	8	11
32	19	23	X

(A) 9 **(B)** 17 **(C)** 22 **(D)** 24 **(E)** 25

84) At least how many people must be present in a cafe so that we can claim, that there must be at least two people of the same gender born in the same month among them?

(A) 13 **(B)** 15 **(C)** 17 **(D)** 25 **(E)** 37

85) How many prime numbers p are there such that the number p^2+2 also is a prime number?

(A) 0 **(B)** 1 **(C)** 2 **(D)** 3 **(E)** ∞

86) One of the solutions to the equation $x^2-5x+6=0$ is $x=2$. What is the sum of the two solutions?

(A) 4 **(B)** 5 **(C)** 3 **(D)** -5 **(E)** 6

87) A jacket is originally priced at \$80. During a sale, the price of the jacket is reduced by 25%. What is the sale price of the jacket?

(A) 50 **(B)** 60 **(C)** 65 **(D)** 70 **(E)** 80

88) If the number of elements in a set A are 5. Then the number of elements of the power set $P(A)$ are?

(A) 5 **(B)** 6 **(C)** 16 **(D)** 32

89) A man walked diagonally across a rectangular plot of land from one of its corners to the opposite. If the plot is 30 m by 40 m, what percentage of distance did he save by not walking along the edges?

(A) 71.4% **(B)** 65% **(C)** 75% **(D)** 54.5%

SECTION THREE: Statistics Questions

90. The average age of six friends, including two twins, is 14 years. If the average age of the remaining four friends is 14.5 years, how old are the twins?

(A) 12 **(B)** 14 **(C)** 15 **(D)** 16

91. Two coins are tossed simultaneously. What is the probability that at least one head appears?

(A) $\frac{3}{4}$ **(B)** $\frac{1}{2}$ **(C)** $\frac{1}{4}$ **(D)** $\frac{2}{3}$

92. A letter is selected at random from the word "Probability." What is the probability that the selected letter is a vowel?

(A) $\frac{3}{11}$ **(B)** $\frac{4}{11}$ **(C)** $\frac{2}{11}$ **(D)** $\frac{1}{11}$

93. A class representative is to be selected at random from a classroom. If 12 students are boys and boys make up 48% of the total number of students, what is the probability that the selected class representative is a girl?

(A) $\frac{11}{25}$ **(B)** $\frac{3}{25}$ **(C)** $\frac{12}{25}$ **(D)** $\frac{7}{25}$

94. What is the mean of the data $(1, 2, 3, 5, 2, 2, 6, 3)$?

(A) 1 **(B)** 2 **(C)** 3 **(D)** 1.5

95. If a fair coin is tossed five times, how many possible different sequences of heads and tails are there?

(A) 10 **(B)** 16 **(C)** 32 **(D)** 64

96. Suppose that the Ethiopian Premier League has 5 teams entered in the competition. In how many different orders can the teams finish?

(A) 840 **(B)** 720 **(C)** 600 **(D)** 500

97. How many different 7-digit numbers can be formed using the digits 1, 5, 5, 8, and 8?

(A) 1680 **(B)** 840 **(C)** 720 **(D)** 630

98. A committee of 3 people is to be chosen from among 8 members of a club. How many such committees are there?

(A) 56 **(B)** 34 **(C)** 28 **(D)** 18

99. The percent increase in the price of a car was 4%. The new price is 15,600. What was the previous price?

(A) 14,500 **(B)** 14,976 **(C)** 15,000 **(D)** 15,200

100. What is the median of the data?

(A) 3.5 **(B)** 2.5 **(C)** 3 **(D)** 2.5

101. A group of 100 items has a mean of 54. The mean of 60 of these items is 58. What is the mean of the remaining items?

(A) 54 **(B)** 56 **(C)** 50 **(D)** 48

102. In an office with 30 trainees and a team lead, if the average age of the whole team is 27 years when the team lead is excluded, what is the age of the team lead?

(A) 54 **(B)** 55 **(C)** 56 **(D)** 57

103. How many different 7-digit numbers can be made using the digits 1, 1, 5, 5, 5, 1, 8, and 8?

(A) 120 **(B)** 140 **(C)** 210 **(D)** 240

104. A committee of 3 people is to be chosen from 8 members of a club. How many such committees can be formed?

(A) 6 **(B)** 56 **(C)** 42 **(D)** 8

105. What is the probability of getting a head when a fair coin is tossed?

106. The probability of an event is always:

107. If two coins are tossed, what is the probability of getting at least one head?

108. In a deck of 52 cards, what is the probability of drawing an Ace?

109. The probability of an impossible event is:

110. The probability of getting an even number when a die is rolled is:

111. If $P(A) = 0.3$, what is the probability of not A?

112. Two events A and B are independent if:

113. What is the probability of rolling a sum of 7 with two dice?

114. If a die is rolled twice, what is the probability that the sum is 9?

115. In a bag of 10 balls, 4 are red and 6 are blue. What is the probability of drawing a red ball?

116. The probability that a number chosen randomly from 1 to 20 is divisible by 3 is:

117. What is the probability of drawing a King or Queen from a standard deck of cards?

118. The probability of getting a prime number when rolling a die is:

119. If two coins are tossed, what is the probability of getting exactly one head?

120. The probability of choosing a vowel from the English alphabet is: