



PAPER-1: MATHEMATICES, GK AND LANGUAGE

Section –A : Mathematics

1. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?

A. 87555 B. 65124

C. 72360 D. 65000

2. Simplify: $1 \div \left\{ \frac{1}{2} + \frac{1}{3} + \frac{1}{6} \div \left(\frac{3}{4} - \frac{1}{3} \right) \right\}$

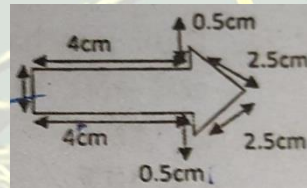
A. $\frac{30}{37}$ B. $\frac{37}{30}$

C. $\frac{15}{37}$ D. $\frac{15}{30}$

3. Find the perimeter of the following figure

A. 15 cm B. 15 cm²

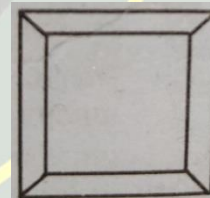
C. 16 cm D. 25 cm²



4. A floor is 5m long and 4m wide. A square carpet side 3m is laid on the floor. Find the area of the floor that is not carpeted.

A. 21 m² B. 29 m²

C. 11 m² D. 21 cm²



5. Find out the smallest number which is divisible by 6, 12, 18

A. 366 B. 180

C. 120 D. 60

6. Which of the following measures of angles given can be those of a isosceles triangle?

A. 90, 45 B. 60, 30

C. 120, 40 D. 90, 50



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7. The length of a rectangle is 5 cm more than its breadth. If the perimeter of the rectangle is 50 cm then what is the area?

- A. 150 cm^2 B. 250 cm^2
C. 900 cm^2 D. 800 cm^2

8. 12 persons can finish a piece of work in 15 days. In how many days will the same work be completed by 20 persons?

- A. 15 days B. 9 days
C. 30 days D. 20 days

9. The LCM of two prime numbers is

- A. difference B. product
C. sum D. none of the above

10. In a School of 1000 students, 330 come by bus, 400 come walking and the remaining are dropped by parents. What is the percentage of students that do not ride the bus to school?

- A. 67% B. 27%
C. 50% D. 33%

11. A train from Station A to Station B covers a distance of 616 km at a uniform speed of 112 km/hr. It Halts at Station. B for 1 hour before starting back. How much time will it take to complete the journey and reach back to Station A (i.e. from A to B and back)?

- A. 11 hours B. 12 hours 45 minutes
C. 12 hours D. 5 hours 30 minutes

12. A table was sold at 16% loss for Rs. 3360. Find the cost price of the table.

- A. Rs.4000 B. Rs.3392
C. Rs.3600 D. Rs.4296



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13. There are 17 rooms in a school, every room has two fans and four LED bulbs. How many switches are required for the school if every fan requires a switch and one switch is required for every two bulbs?

- A. 34 B. 68
C. 102 D. 17

14. The product of two decimal numbers is 12.194. If one of them is 4.69, what the other number is?

- A. 7.6 B. 2.6
C. 9.8 D. 4.8

15. Rahul purchases a chair for Rs.600 and uses Rs.200 for repairs. If he sells it for Rs.1000 then he has:

- A. no profit no loss B. 25% loss
C. 25% profit D. cannot be calculated

16. The temperature dropped 15 degree Celsius in the last 30 days. If the rate of temperature drop remains the same, how many degrees will the temperature drop in the next ten days?

- A. 10 degrees B. 5 degrees
C. 20 degrees D. 15 degrees

17. From a basket of mangoes when counted in twos there was one extra, counted in threes there were two extra, counted in fours there were three extra, counted in fives there were four extra, counted in sixes there were five extra. But counted in sevens there were no extra. At least how many mangoes were there in the basket?

- A. 119 B. 110 C. 111 D. 126

18. Which of the following two digit number when added to 27 gets reversed?

- A. 27 B. 24 C. 47 D. 70



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19. The ratio of income to expenditure of Radha is 7:5. If she saves ₹2000 a month, what is her annual income?

- A. ₹144000 B. ₹60000 C. ₹95000 D. ₹ 84000

20. The ratio of the length to breadth of a rectangular lawn is 3 : 5. It costs ₹3200 to fence it at the rate of ₹2 a meter. What would be the cost of developing the lawn at the rate of ₹10 per square meter?

- A. ₹18,00,000 B. ₹15,00,000 C. ₹19,00,000 D. ₹21,00,000

21. A, B and C divide an amount amongst themselves in the ratio of 4:7:9 respectively. If B's share in the amount is ₹2989, what is the total amount?

- A. ₹9820 B. ₹8540
C. ₹2720 D. ₹8640

22. The average age of a class of 40 students is 18 years. When the teachers age is also included to calculate the average age becomes 19 years. What is the teacher's age?

- A. 59 years B. 69 years
C. 49 years D. 39 years

23. What is the greatest number which when divides 3026 and 5053 leaves remainders 11 and 13 respectively?

- A. 15 B. 30
C. 45 D. 60

24. Ravi purchased a chair at 500 and sold it at ₹550. What was his gain or loss percent?

- A. 10% B. 20%
C. 30% D. 40%

25. A certain distance is being covered in 28 hours by walking with a speed of 5 km/h. If the speed is increased by 2 km/h then in how much time the same distance will be covered?

- A. 30 hours B. 15 hours C. 20 hours D. 25 hours



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26. A piece of wire $7/8$ meter long broke into two pieces. One piece was $1/4$ meter long .How long is the other piece?

A. $4/8$ m

B. $5/8$ m

C. $6/8$ m

D. $7/8$ m

27. What is the missing number in the sequence 2, 5, 10, 14, 18, 23, 26, 32 ?

A. 33

B. 34

C. 36

D. 37

28. 30 men can do a piece of work in 16 days. In how many days 8 men can do the same work?

A. 30 days

B. 40 days

C. 50 days

D. 60 days

29. Ram, Shyam and Mohan runs at speed of 75, 50 and 30 m/minute respectively. After how much time will they meet together for the first time running with the same speed?

A. 5 hours

B. 2 hours

C. 3 hours

D. $5/2$ hours

30. Represent 26 kg 5 gram using concept of decimals.

A. 26.05 kg

B. 26.005 kg

C. 26.5 kg

D. 26.0005 kg

31. At what rate, a sum of 6000 will amounts to 7800 in 5 years?

A. 3%

B. 4%

C. 5%

D. 6%

32. What will be the depth of a cubical pond whose volume is 729 m³?

A. 9 m

B. 6 m

C. 8 m

D. 5 m

33. Evaluate: $3 \times 7 + 4 - 6 = 3 - 7 + 45 \div 5 \times 41 + 49$

A. 101

B. 103

C. 99

D. 35



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34. In what time a train whose length is 100 m moving with a speed of 60 km/h crosses a platform whose length is 150 m?

- A. 15s B. 14s
- C. 18s D. 20s

35. Ashu takes 12 days to complete the work. Pranav takes 10 days to complete the same work. Ashu, Pranav and Ramu take 5 days to complete the same work. How many days will Ramu take to complete the same work?

- A. 70 days B. 90 days
- C. 60 days D. 50 days

36. The LCM of two numbers is 28 times of their HCF. The sum of their LCM and HCF is 1740. If one number is 240 then what is the other number?

- A 420 B. 460
- C. 500 D. 380

37. Four clocks rings at the time interval of 68, 8s, 12s and 18s respectively. If they ring together at 12 am then how many times will they ring together within the time span of 6 minutes?

- A. 6 times B. 4 times
- C. 7 times D. 5 times

38. What is the least multiple of 23 which when divided by 18, 21 and 24 leaves remainders 7, 10 and 13 respectively?

- A. 1240 B. 3013
- C. 2364 D. 7628

39. A milkman has two cans of milk containing 75 litres and 45 litres of milk respectively. What will be the measure of largest vessel that can measure the milk of the two cans exactly?

- A. 12 litres B. 18 litres
- C. 15 litres D. 10 litres

40. A table was purchased at 1000 and was sold at 800. What was gain or loss% in this transaction?

- A. 5% B. 10%
- C. 20% D. 30%



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41. The average weight of 6 boys gets increased by 5 kg if a boy with weight 20 kg is replaced by a new boy. What is the weight of new boy?

- A. 41 kg B. 50 kg
C. 65 kg D. 49 kg

42. A man covers a distance of 40 km. He covers first 10 km at 10 km/h, second 10 km at 20 km/h, third 10 km at 30 km/h and last 10 km at 40 km/h. What is the average speed of man?

- A. 18.2 km/h B. 19.2 km/h
C. 19.0 km/h D. 16.2 km/h

43. If area of rectangular garden of 5 m breadth is 300 sq. m, then what will be the length of garden?

- A. 60 m B. 70 m
C. 80 m D. 90 m

44. If the square of a number is added to the square of 28 the result is 1808. What is the number?

- A. 66 B. 50
C. 32 D. 16

45. Cost of a dozen pens is 180 and cost of 8 ball pens is 56. The ratio of the cost of a pen to the cost of a ball pen is

- A. 15:7 B. 180:56
C. 1:1 D. 8:15

46. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by the truck to cover a distance of 1650 km?

- A. 3000 litres B. 108 litres
C. 300 litres D. 165 litres

47. Find the simple interest on ₹ 5000 at the rate of $7\frac{1}{2}\%$ for a period of 3 years

- A. ₹ 5000 B. ₹ 6125
C. ₹ 2000 D. ₹ 1125



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48. The angles of a triangle are in the ratio of 1:2:3. Find the values of the angles

- A. 30, 60, 90 B. 15, 45, 120
C. 60, 60, 60 D. 45, 45, 90

49. One number exceeds another number by 36. The sum of numbers is 48 then the numbers are

- A. 40, 08 B. 36, 12
C. 42, 06 D. 32, 16

50. At which one of the following times is the angle between the hands of a clock exactly one straight angle?

- A. 12 AM B. 12 PM
C. 9.15 AM D. 6 AM

GENERAL KNOWLEDGE

51. Out of the following list of Param Vir Chakra (PVC) Awardees who was awarded with PVC during Kargil War?

- A. Lt Col Ardeshir Burzorji Tarapore
B. 2/Lt Arun Khetarpal
C. Capt Vikram Batra
D. Maj Somnath Sharma

52. Which state among the following has adopted Sanskrit as its one of the official languages?

- A. Himachal Pradesh B. Uttrakhand
C. Rajasthan D. Uttar Pradesh

53. Who is the current Vice-President of India?

- A. Shri Narendra Modi
B. Shri Venkaiah Naidu
C. Shri Arun Jaitley
D. Shri Ram Nath Kovind



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54. A medical practitioner specializing in children and their diseases

- A. Geologist
- B. Paediatrician
- C. Cardiologist
- D. Neurologist

55. A group of stars is called a

- A. Solar system.
- B. Constellations
- C. Planets
- D. Comets

56. Which gas when solidified is commonly known as Dry ice?

- A. Carbon monoxide
- B. Nitrous oxide
- C. Carbon dioxide
- D. Hydrogen peroxide

57. The members of the Rajya Sabha can have a maximum tenure of how long?

- A. Five years
- B. Six years
- C. Seven years
- D. Two years

58. P Gopichand is associated with which Sport?

- A. Badminton
- B. Cricket
- C. Football
- D. Hockey

59. Which of the following company does not sell mobiles?

- A. Apple
- B. BSNL
- C. HP
- D. Sony

60. A vehicle capable of travelling over land and water is called.

- A. Hovercraft
- B. Rovercraft
- C. Mowercraft
- D. Car

61. The space programme of Government of India is looked after

- A. ISBT
- B. NTRO
- C. NABARD
- D. ISRO



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62. The Motto of the Indian Navy is

- A. Sarvatra Sarvottam Suraksha
- B. Sham No Varunah
- C. Valour and Wisdom
- D. Nabhah Sparsham Deeptam

63. Which is the largest gland in human body?

- A. Salivary gland
- B. Lungs
- C. liver
- D. Stomach

64. Who has written 'Sare Jahan Se Achchha'?

- A. Rabindra Nath Tagore
- B. Bankim Chandra Chatterjee
- C. Muhammad Iqbal
- D. Subash Chandra Bose

65. Which is the deepest ocean?

- A. Indian Ocean
- B. Arctic Ocean
- C. Antarctic Ocean
- D. Pacific Ocean

66. Who fixes the salaries and the allowances of the Speaker of Lok Sabha?

- A. Council of Ministers
- B. President
- C. Parliament
- D. Judge of Supreme Court

67. Which article of constitution provides Indian citizen 'Right To Equality'?

- A. Article 12
- B. Article 13
- C. Article 17
- D. Article 14

68. 1024 Kilobytes is equal to:

- A. 8 Bits
- B. 1 Megabyte (MB)
- C. 1 Gigabyte (GB)
- D. 1 Byte

69. Hirakund dam is built on the river:

- A. Cauvery
- B. Mahanadi
- C. Krishna
- D. Sutlej



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70. Deficiency of Iodine causes:

- A. Goitre B. Malaria C. Cataract D. Scurvy

71. Who is known as 'Iron man' of India?

- A. Jawaharlal Nehru B. Mahatma Gandhi
C. Sardar Patel D. Subhas Chandra Bose

72. Which among of the following is not an Indian Sport?

- A. Kabbadi B. Kho-Kho
C. Hockey D. Rugby

73. Those who study things that were made and used in the past these people are called

- A. Biologist B. Archaeologist
C. Geologist D. Doctor

74. What is the ratio of width to the length of National Flag of India?

- A. 4:5 B 2:3
C. 1:1 D. 5:6

75. Where is Wagah-Border located?

- A. Longewala, Rajasthan B. Moreh, Manipur
C. Rann of Kutch, Gujarat D. Amritsar, Punjab

LANGUAGE

Choose the most appropriate option given against each question.

76. Which word means nearly the same as "scream"?

- A. Find B. Stop
C. Sell D. Shout

77. Which word means nearly the same as "happy"

- A. conditions B. Disgusted
C. content D. Ambitious



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78. The men are working. Their are at home.

- A. wife B. Husbands
C. Husband D. Wives

79. Rahul works less.....than Mohan.

- A. carefully B. More careful
C. Careful D. Careful as

80. It all day long yesterday.

- A was rained B. raining
C. rained D. has rained

Rearrange the following word groups of words to make meaningful sentences. Choose the correct sequence given in the options.

81. (A) quite happy': (B) i was/(C) the first prize / (D) to receive.

- A. BADC B. ABCD
C. DCBA D. BACD

82. (A) protect / (B) we must / (C) natural resources / (D) our.

- A. ABCD B. BADC
C. ACDB D. DCAB

Choose the appropriate option to fill in the blanks:

83. One who leads an austere life

- A. Ruler B. Auditor
C. Ascetic D. Carpenter

84. A person who presents a radio/television programme.

- A. Director B. Actress
C. Actor D. Anchor

85. Pick the opposite gender of 'Lad'

- A. Lass B. Queen
C. Woman D. Dame



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86. Choose the opposite gender of 'Fox'

- | | |
|----------|----------|
| A. Filly | B. Goose |
| C. Witch | D. Vixen |

Do as directed:

87. always stood third in her class (supply the correct pronoun)

- | | |
|--------|---------|
| A. You | B. They |
| C. He | D. She |

88. All the candidates should bring own pen (supply the correct pronoun)

- | | |
|-------------|----------|
| A. Everyone | B. They |
| C. Nobody | D. Their |

89. Experience is the teacher (supply the correct adjective)

- | | |
|-----------|----------|
| A. Better | B. Good |
| C. Best | D. Great |

90. a beautiful scene it is! (pick up the correct adverb)

- | | |
|-----------|----------|
| A. What | B. How |
| C. Always | D. Never |

91. Did you apply this post? (Supply the correct preposition)

- | | |
|--------|-------|
| A. To | B. At |
| C. For | D. Of |

92. You should take care..... your health (supply the correct preposition)

- | | | | |
|-------|-------|-------|-------|
| A. Of | B. In | C. At | D. To |
|-------|-------|-------|-------|

93. He is rich he is not happy (supply the correct conjunction)

- | | |
|------------|-----------|
| A. Yet | B. Though |
| C. Because | D. But |



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94. Work hard you will fail (supply the correct conjunction)

- A. Or B. Still
C. Because D. Either

95. The child for two hours (select the correct form of verb)

- A. Has been sleeping B. Have been sleeping
C. Has slept D. Will sleep

Directions (Qs. No. 96 to 100): *Read the following passage and answer the questions:*

From far out in space, Earth looks like a blue ball. Since water covers three-fourths of the Earth's surface, blue is the colour we see most. The continents look brown, like small islands floating in the huge, blue sea. White clouds wrap around the Earth like a light blanket. The Earth is shaped like a sphere, or a ball. It is 25,000 miles around! It would take more than a year to walk around the whole planet. A spaceship can fly around the widest of the sphere in only 90 minutes. Even though spaceships have travelled to the Moon, people cannot visit the Moon without special suits. The Moon has no air or water. Plants and animals can't live there either. Astronauts first landed on the Moon in 1969. After that, there were six more trips to the Moon. They brought back Moon rocks, which scientists are still studying. There are holes, or craters, all over the Moon's surface. Scientists believe that meteorites smashed into the Moon millions of years ago and formed the craters. The Sun is the closest star to Earth. A star is a hot ball of burning gas. The Sun looks very big because it is so close. But the Sun is just a medium- sized star. Billions of far-away stars are much bigger than our Sun. The burning gases from the Sun are so hot that they warm the Earth from 93 million miles away! Even though the Sun is always glowing, the night here on Earth is dark. That's because the Earth rotates, or turns around, every 24 hours. During the day, the Earth faces the Sun. Then we see light. During the night, the Earth turns away from the Sun. Then it faces the darkness of space. Each day we learn more about the Earth, the Moon, and the Sun.

96. Why is blue the colour we see most when looking at Earth from outer space?

- A. Because most of the Earth is covered in land.
B. Because the Sun's rays make the Earth look blue.
C. Because most of the Earth is covered in water.
D. Because clouds wrap around the Earth.



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97. What does 'formed' mean?

- A. hit
- B. made
- C. broke
- D. Stopped

98. What causes daylight on Earth?

- A. The full Moon causes daylight.
- B. Daylight is caused by the Earth facing away from the Sun.
- C. The heat of the Sun's rays causes daylight.
- D. Daylight is caused by the Earth facing toward the Sun.

99. Which of the following sentences BEST describes the Sun?

- A. The Sun looks small because it is so far from Earth.
- B. The Sun is a ball of burning gases that gives the Earth heat and light.
- C. The Sun is a small star.
- D. The Sun is not as hot as it looks.

100. Why did the astronauts bring rocks back from the Moon?

- A. Because they didn't know if they would return to the Moon ever again.
- B. Because they wanted to prove that they went to the Moon.
- C. Because they wanted to remember how the Moon looked.
- D. Because they wanted to study them and learn more about the Moon.