

ADVANCED MATHS TEST-II

Code : 1152

FINALS

Max. Marks : 60

Duration : 60 Mins.

General Instructions :

1. Please find the separate Answer Sheets along with the question paper.
2. Mention your Test Code, Student ID, Name, Class, Section, Contact no. and School Name on the Answer Sheet as per Question Paper and Hall Ticket.
3. This question paper contains VI sections, duration is 60 minutes.
4. Please read the instructions carefully before attempting the question.
5. Answer questions in Answer Sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen to answer the question in Answer Sheet.
8. Submit only answer sheet(s) to the invigilator.

SECTION - I

10 × 1 = 10

DIRECTIONS: (1 - 10) – Complete the following statements with an appropriate word/term to be written in the answer sheet.

1. Thickness of an encyclopaedia = 42 mm = _____ cm
2. Average of $3\frac{1}{2}$, $5\frac{3}{4}$ and $4\frac{1}{4}$ is _____.
3. 4 mile = _____ yard.
4. Akshay sold a book for Rs. 315 incurring a loss of Rs.23. The cost of book is _____

5. $(7+8-3) \div (2 \times 2) = \underline{\hspace{2cm}}$.
6. The $\underline{\hspace{1cm}}$ value of a digit is the digit itself.
7. $517.834 - 437.857 = \underline{\hspace{2cm}}$.
8. A flat surface of a polyhedron is called a $\underline{\hspace{2cm}}$.
9. The average of 1 to 10 Numbers is $\underline{\hspace{2cm}}$.
10. A car covers 300km in 5 hours. It cover $\underline{\hspace{1cm}}$ km in 1 hour.

SECTION - II**10 × 1 = 10**

DIRECTIONS : (11 - 20) – Read the following statements and write true or false with reasons or solutions; in the answer sheet.

11. The area of triangle = 2 × base × height
12. A rectangular pool measures 20 ft, 50 ft and 6.5 ft, volume of the pool is 65000 cubic feet.
13. $23\frac{1}{4} + 23\frac{1}{5} + 23\frac{1}{6} = 23\frac{37}{60}$
14. I, X and C are used for both multiplication and division.
15. Decimal notation of one hundred thousand and five hundred - thousandths is 100,00.005
16. Temperature was 35°C on my birth day. That was a cold day.
17. The average of 0.5, 0.05, 5.0 and 0.005 is 1.
18. Meena paid Rs. 250.20 for 9 tumblers. The cost of 1 tumbler is Rs. 22.80
19. When B is 50% and A is 60%, we cannot say that A is 10% more than B.
20. Order of numbers 0.7, 0.23, 3.45, 0.07 and 3.54 from least to greatest is 0.07, 0.23, 0.7, 3.45, 3.54

SECTION - III

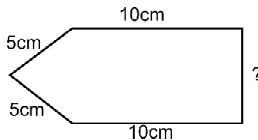
10 x 1 = 10

DIRECTIONS: (21 - 30) – Each question contains statements given in two columns which have to be matched. Match the statements (21,22,...30) in column I with statements (a,b,...o) in column II . Arrange the matched statements in order and write in the answer sheet.

Column I

Column II

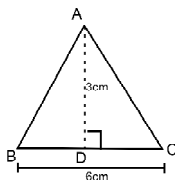
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|--|-------------------|
| 21) $2,45,329 + 21,31,546 + 24,63,725 =$ | a) Multiplication |
| 22) Division is considered as a process of repeated | b) Capacity |
| 23) A whole number and fraction together is called a | c) 7.0 |
| 24) $0.3 \div 0.6 =$ | d) Subtraction |
| 25) The Perimeter of the given figure is 37 cm. | e) Obtuse angle |



The missing length of the figure is

- | | |
|---|------------|
| 26) An angle which is more than 90° is called an | f) 7 cm |
| 27) 1 liter | g) 9 sq.cm |
| 28) 1 dozen bananas weight 240g.
1 banana weight | h) 4840600 |
| 29) A millimeter cube is about the size of a | i) 0.5 |

- | | |
|-------------|-------------|
| 30) Area of | j) Addition |
|-------------|-------------|



- k) mixed fraction
angle
- l) 0.05
- m) 20g
- n) dice
- o) acute

SECTION - IV

10 × 1 = 10

Directions : (31 – 40) – Identify the correct answer from the given options and write in the answer sheet.

31. Which of the following is correct ?

- a) $XV = 10 + 5$
- b) $VV = 5 + 5$
- c) $VX = 5 + 10$
- d) $XIX = 10 + 10$

32. In the series

6 4 1 2 2 8 7 4 2 1 5 3 8 6 2 1 7 1 4 1 3 2 8 6

How many pairs of successive numbers have a difference of 2 each ?

- a) Four
- b) Five
- c) Six
- d) Seven

33. If largest 3- digit number is divided by smallest 2 - digit number, then:

- a) $Q=99$
 $R=9$
- b) $Q = 10$
 $R = 99$
- c) $Q = 10$
 $R = 9$
- d) $Q = 9$
 $R = 10$

34. I am the factor of every number who am I?

- a) 1
- b) 2
- c) 0
- d) 3

35. Formula for increase in percentage is equal to

- a) $\frac{\text{Increase in value}}{\text{Original value}} \times 100\%$ b) $\frac{\text{Original value}}{\text{Increase in value}} \times 100\%$
c) $\text{Original value} \times 100\%$ d) $\text{Increase in value} \times 100\%$

36. A family used 63.5 l of water for bathing one day. How much is that in ml ?

- a) 63500 l b) 60503 ml c) 65300 ml d) 63500 ml

37. The simple interest on Rs. 1800 at $3\frac{1}{2}\%$ per annum for $2\frac{1}{2}$ years is :

- a) Rs. 157.50 b) Rs. 154.50
c) Rs. 156.50 d) none

38. Compare 10% of Rs100 50% of Rs10

- a) < b) =
c) > d) None of these




39. $3\frac{1}{2} + 2\frac{5}{7} \times \frac{9}{26} \times 2\frac{1}{2} + 2 = \underline{\hspace{2cm}}$.

- a) $\frac{491}{728}$ b) $\frac{4}{728}$
c) $4\frac{491}{728}$ d) none of these

40. Product of $3.92 \times 0.1 \times 0.0 \times 6.3$ is:

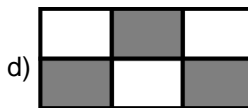
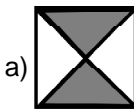
- a) 0.392 b) 0.1176
c) 0 d) 6.3

DIRECTIONS: (41 - 50) – Choose the correct answers (More than one correct answer) from the given options and write in the answer sheet.

41. “ The matchsticks make a small angle , big angle  and a bigger angle  the incorrect statement in regarding the given information.

- a) When the angle changes the shape changes so much.
- b) When the angle changes the shape does not change
- c) When the angle does not change, the shape also changes
- d) Cannot say.

42. Which model is shaded to show a fraction equivalent to $\frac{3}{6}$?



43. In the following statements which is correct

- a) Every odd number except 2 is the sum of two primes.
- b) All composite numbers can be broken up into their factors
- c) prime numbers with difference of 2 are called twin primes
- d) HCF is also known as GDF the greater division factor, GCF the greatest common factor

44. In the following number which is not divisible by 9.

- a) 593
- b) 207
- c) 117
- d) 560

45. The correct HCF of each pair of number are

- a) 16 and 24 HCF is 8 b) 12 and 20 HCF is 3
 c) 84 and 36 HCF is 12 d) 63 and 66 HCF is 5

46. $\triangle + \square = 7$

$\square - \triangle = 1$

If these number sentences are true, which of the following may be correct ?

- a) $\square = 4, \triangle = 3$ b) $\triangle = 3, \triangle = 4$
 c) $\square - \triangle + \square = 5$ d) $(\triangle + \triangle) - \square = 2$

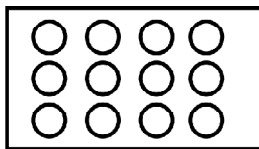
47. Which of the following are Quadrilaterals.

- a) Triangle b) Square
 c) Parallelogram d) Rectangle

48. If we put number 4 in the circle which equation will become true?

- a) $40 \div \bigcirc = 8$ b) $24 \div \bigcirc = 6$
 c) $168 \div \bigcirc = 42$ d) $32 \div \bigcirc = 8$

49. What mathematical expression is illustrated in this diagram.



- a) $3 + 3 = 6$ b) $3 \times 4 = 12$
 c) $3 + 3 + 3 + 3 + 3 = 12$ d) $4 + 4 + 4 = 12$

50. $(XV - V)$ is equal to

a) $15 - 5 = 10$

b) $10 + 5 - 5 = 10$

c) $10 \times 5 - 5 = 45$

d) $5 + 10 + 5 = -10$

SECTION - VI

$10 \times 1 = 10$

Assertion & Reason

DIRECTIONS: (51-60) Each of these questions contains an Assertion followed by reason. Read them carefully and answer the question on the basis of following options. You have to select the one that best describes the two statements and write in the answer sheet.

- a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
- b) If both **Assertion** and **Reason** are correct, but Reason is **not the correct explanation** of Assertion.
- c) If **Assertion** is **correct** but **Reason** is **incorrect**.
- d) If **Assertion** is **incorrect** but **Reason** is **correct**.

51. **Assertion:** The successor of XVIII is XIX.

Reason: XIX also written as $10 + 10 - 1$

52. **Assertion:** All prime Number are odd Number

Reason: 2 is a even prime Number.

53. **Assertion:** $3\frac{3}{7}, 4\frac{3}{7}, 6\frac{7}{7}$ are mixed fractions and like fractions.

Reason: Mixed fractions converted into proper fractions.

54. **Assertion:** Sum of Angles of trianlge equal to 180°

Reason: Sum of two right angles equal to straight angle

55. **Assertion:** A square has 4 Right angles

Reason: In Rectanlges opposite sides are equal

56. **Assertion:** A Ray has only one end point.

Reason: By using the point you can draw infinite Rays.

57. **Assertion:** Multiples of 5 is 5,10,15,20,.....

Reason: 5 Multiple are alternative even number and primes

58. **Assertion:** $\frac{1}{4}$ means $\frac{100}{25}$

Reason: $25\% = \frac{1}{4}$

59. **Assertion:** $345 + a23 + 312 = 780$

Reason: When $a = 2$ above addition is satisfied

60. **Assrtion:** 240,355,728 are divisible by 2

Reason: Any number Last digit 0 or even Number is there that Number should be divisible by 2

SOLUTIONS TO MODEL PAPER - II**SECTION – I****Fill in the Blanks**

- 1) 42. 2) $\frac{9}{2} = 4.5$ 3) 7040 4) 338
- 5) 3 6) face 7) 79.977 8) face
- 9) $\frac{n(n+1)}{2} = \frac{55}{10} = 5.5$ 10) 60

SECTION – II**True / False**

- 11) False 12) False 13) True 14) False
- 15) False 16) False 17) False 18) False
- 19) True 20) True

SECTION – III**Match the Following**

- 21) → h 22) → d 23) → k 24) → i
- 25) → f 26) → e 27) → b 28) → m
- 29) → n 30) → g

SECTION – IV**Multiple Choice Questions**

- 31) a 32) c 33) a 34) a
35) a 36) d 37) a 38) c
39) d 40) c

SECTION – V**More than One Correct Answers**

- 41) b, c 42) c, d 43) b, c 44) a, d
45) a, c 46) a, c, d 47) b, c, d 48) b, c, d
49) b, d 50) a, b

SECTION – VI**Assertion & Reason**

51. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
52. d) If **Assertion** is **incorrect** but **Reason** is **correct**.
53. c) If **Assertion** is **correct** but **Reason** is **incorrect**.
54. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
55. b) If both **Assertion** and **Reason** are correct, but Reason is **not the correct explanation** of Assertion.
56. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
57. c) If **Assertion** is **correct** but **Reason** is **incorrect**.
58. d) If **Assertion** is **incorrect** but **Reason** is **correct**.
59. c) If **Assertion** is **correct** but **Reason** is **incorrect**.
60. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.

