



# BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL

ANNUAL EXAMINATION 2024-25

## MATHEMATICS (041)



Class :V

Date : 19-03-2025

Admission No.:

Duration: 3 Hrs

Max. Marks: 80

Roll No.:

### General Instructions:

- This Question Paper has 5 Sections A, B, C, D and E.
- Section A has 20 MCQs carrying 1 mark each.
- Section B has 5 questions carrying 02 marks each.
- Section C has 6 questions carrying 03 marks each.
- Section D has 4 questions carrying 05 marks each.
- Section E has 3 case based integrated units of assessment carrying 04 marks each.
- All Questions are compulsory.

### SECTION –A

(1 × 20 = 20)

#### Choose the correct answer.

- How many lines of symmetry does the letter E has \_\_\_\_\_  
a) 0                                      b) 3                                      c) 1                                      d) 2
- $5 + \frac{4}{10} + \frac{6}{1000}$  is equal to \_\_\_\_\_  
a) 0.546                                      b) 5.46                                      c) 54.06                                      d) 5.406
- $0.09 \times 100$  is equal to \_\_\_\_\_  
a) 0.09                                      b) 0.9                                      c) 0.0009                                      d) 9
- 5, 8, 11, 14, 17, \_\_\_\_\_  
a) 19                                      b) 20                                      c) 2                                      d) 0
- The place value of 8 in 17.248 is \_\_\_\_\_  
a) 800                                      b)  $\frac{8}{100}$                                       c)  $\frac{8}{10}$                                       d)  $\frac{8}{1000}$
- $\frac{18}{12}$  in the lowest form is \_\_\_\_\_  
a)  $\frac{1}{3}$                                       b)  $\frac{3}{2}$                                       c)  $\frac{4}{3}$                                       d)  $\frac{2}{3}$
- Volume of cuboid is \_\_\_\_\_  
a)  $l \times b \times h$                                       b)  $l \times b$                                       c) side  $\times$  side  $\times$  side                                      d) None of these

- 8) What is the unit of area? \_\_\_\_\_  
 a) Sq. cm.                      b) Cu. cm.                      c) cm.                      d) None of these
- 9) Ten rupee and seventy-five paise = \_\_\_\_\_  
 a) 10.57                      b) 10.75                      c) 75.10                      d) None
- 10) Express in percentage  $\frac{93}{100} =$  \_\_\_\_\_  
 a) 93%                      b) 11%                      c) 7%                      d) 193%
- 11) The product of  $0.412 \times 2 =$  \_\_\_\_\_  
 a) 0.11                      b) 0.13                      c) 0.824                      d) 412.72
- 12) In a bar graph the width of the rectangles are \_\_\_\_\_  
 a) Unequal                      b) Increasing                      c) Decreasing                      d) Equal
- 13) Time 4:10 in the evening is same as \_\_\_\_\_  
 a) 4:10 a.m.                      b) 4:10 hours                      c) 04:10 p.m.                      d) None of these.
- 14) A shopkeeper brought a chair for ₹ 450 and sold it for ₹ 600. Find his profit/loss : \_\_\_\_\_  
 a) Profit = ₹ 600                      b) Loss = ₹ 450                      c) Profit = ₹ 150                      d) Loss = ₹ 150
- 15) If  $SP > CP$  we get \_\_\_\_\_  
 a) Profit                      b) Loss                      c) Loss%                      d) None of these.
- 16) A leap year occurs every \_\_\_\_\_ years.  
 a) 2                      b) 3                      c) 4                      d) 5
- 17) 10% of 100 g = \_\_\_\_\_  
 a) 10 g                      b) 20 g                      c) 100 g                      d) 90 g
- 18) 0.32 in percentage = \_\_\_\_\_  
 a) 32%                      b) 23%                      c) 100%                      d) 90%

#### Assertion Reason Questions

- 19) Assertion: A day has 24 hours.  
 Reason: There are 60 minutes in an hour.
- a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation for Assertion.  
 b) Both Assertion and Reasoning are true, but Reasoning (R) is not the correct explanation for Assertion.  
 c) Assertion is true, but Reasoning is false.  
 d) Assertion is false, but Reasoning is true.

20) Assertion: Profit = Selling Price (S.P) – Cost price (C.P)

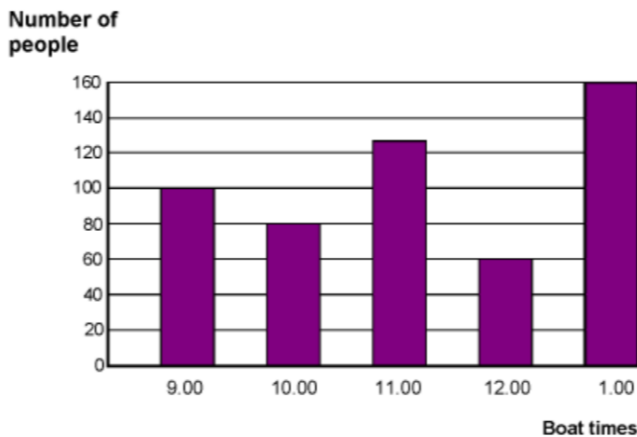
Reason: Profit = Cost price (C.P) – Selling Price (S.P)

- a) Both Assertion and Reason are true and Reason is correct explanation of Assertion.
- b) Both Assertion and Reason are true and Reason is not correct explanation of Assertion.
- c) Assertion is false but Reason is true.
- d) Assertion is true but Reason is false.

**SECTION –B**

(2 × 5 = 10)

21) Following bar graph represents the information about the boat taking visitors out into the sea to watch dolphins swimming. The bar chart shows the number of people that went out on each boat.



- a) How many people went on the 9.00 am boat?
- b) How many people went on the 11.00 am boat?
- c) How many people travel on the boat all together?

22) Find Profit or loss if S.P = ₹ 4500 and C.P = ₹ 3400

23) Convert the following

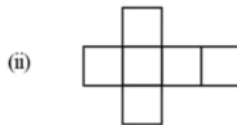
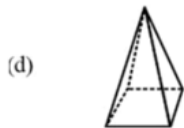
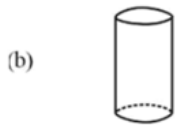
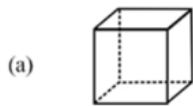
- a) 40 days into hours
- b) 24 hours into minutes

24) The following are the number of electric bulbs purchased for a lodging during the first six months of a year. Draw a bar graph to represent the details.

Months	Number of bulbs
January	20
February	26
March	30
April	34



25) Match the solid shapes to the matching net.



**SECTION –C**

(3 × 6 = 18)

26) The cost of 6 chairs ₹ 930. Find the cost of 11 such chairs.

27) Raju jogs daily around a square park whose side is 75 metre long. One day, he jogged around the park 5 time. How much did he jog on that day?

OR

The length of the rectangular park is 20m and breadth is 13m. Aman jogs and completes 4 rounds of the park everyday how much distance does Aman jogs daily?

28) Aditya has  $4\frac{2}{3}$  chocolate bars and Rahul has  $8\frac{1}{3}$  chocolate bars. How many chocolate bars do they have altogether?

29) Solve: -

a)  $10.3 + 14.519 + 25.06$

b) Take away 17.256 from 81.7

30) 18% of 650 students in a school choose to attend cricket coaching classes. How many students attend these classes?

31) A train left Ramgarh at 1452 hours for Sitapur and reached at 1710 hours. How much time did the train take to reach Sitapur?

**SECTION –D**

(5 × 4 = 20)

32) Which has the greater volume; box A that measures 10cm by 6cm by 4cm or box B which measures 6cm by 6cm by 7cm by how much volume?



33) Sunil obtained 750 marks out of 800 and Preeti obtained 540 marks out of 600 whose percentage is better?

34) Write Proper, Improper, Mixed and Like fractions in the corresponding rows.

$$\frac{3}{17}, \frac{5}{12}, 2\frac{3}{8}, 5\frac{1}{3}, \frac{2}{9}, \frac{5}{9}, \frac{1}{6}, \frac{8}{3}, \frac{12}{7}, 15\frac{2}{3}$$

Proper fraction	
Improper fraction	
Mixed fractions	
Like fractions	

35) Do as directed

- Add 7 hours 20 minutes and 12 hours 25 minutes
- Subtract 3 hours 15 minutes and 1 hour 58 minutes
- Garba celebration starts from 17 October and will continue for 10 days. When will be the last day of Garba celebration?



**SECTION -E**

(4 × 3 = 12)

36) Look at the given calendar of March and April 2024 and answer the following questions.

MARCH 2024						
S	M	T	W	T	F	S
						1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL 2024						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

- Which day is on the last date of April 2024?
- How many Sundays are there in March 2024?
- On which date is the first Monday of March 2024?
- On which date is the second Saturday of April 2024?

37) Find the profit/ loss of the following

a) CP = ₹ 181, SP = ₹ 220, Overhead charges = ₹ 17

b) CP = ₹ 306.50, SP = ₹ 206.25

OR

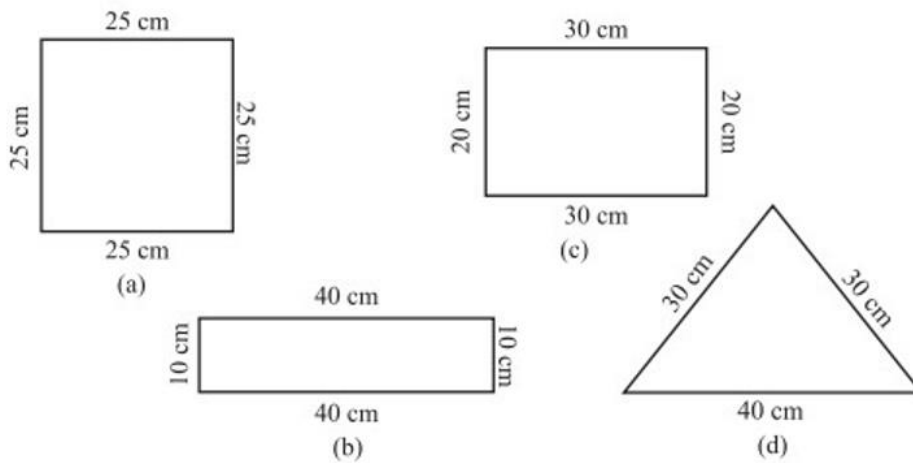
a) A merchant was selling a dozen notebooks for ₹ 360. Find the cost of one notebook.



c) A bottle of juice cost ₹ 75. How much would the cost of 12 such bottles cost?



38) Find the perimeter of the following figures



-----End of paper-----