

PRE SECONDARY SCHOLARSHIP EXAMINATION (Std. 8<sup>th</sup>), JULY 2022

Seat No.

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Set



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Paper No. I

Time : 11:00 to 12:30

Medium : English

Total Marks : 150

First Language and Mathematics



Pages : 16

*Read the following instructions carefully before you answer the questions.*

- (1) This question paper contains **two** sections. In Section **I** there are **1** to **25** questions of First Language and in Section **II** there are **26** to **75** questions of Mathematics. All **75** questions are compulsory.
- (2) All questions carry **2** marks each.
- (3) Time limit to solve the question paper is **90** minutes.
- (4) Separate answer sheet is given to record the answers. Each question has been given four alternatives. Read them carefully. Select and darken the correct answer in the answer sheet.  
For Example :- If the correct alternative for Q. No. **6** is **2**, then record your answer as follows :  
Question No. **6** - ① ● ③ ④
- (5) Maximum 20% questions are having two correct alternatives. Candidate has to darken both the circles with correct answers. These questions will have the instruction '**Select two correct alternatives**'.  
For Example :- If the correct alternative for Q. No. 8 is 2 & 3, then record your answer as follows :  
Question No. **8** - ① ● ● ④
- (6) Answer recorded in any other form will not be considered. Such answer will be credited with 'Zero' mark. ⚡ ② ● ⊗
- (7) Use blue or black ball pen to darken the circle. Circles darkened by pencil will not be credited.
- (8) Answer once recorded can not be changed.
- (9) The rough work is to be done in the space given under each page or on the last page of the question paper.
- (10) The exam has limited time, in case you are not able to solve a question, kindly solve the next question. In the end if time permits you can try to solve the unsolved questions.
- (11) If incomplete or wrong question found in a question paper, you are not permitted to ask the same to Supervisor or Centre Incharge.
- (12) School or parents should not send written application to Block Education Officer or Education Officer for any error, mistake or objection issues. These error / mistake / objection issues should be registered online through respective school login only.
- (13) The error / mistake / objection issues should be registered online within 10 - days from the publication of Interim answer key on MSCE website.
- (14) Suggestion and decision of expert committee will be applicable on printing or any other mistake in question paper.

## SECTION - I

### ENGLISH

01. Choose correct alternative of positive degree. Chennai is one of the hottest city in India.
- (1) Chennai is hotter than any city in India.
  - (2) Very few cities are as hot as Chennai in India.
  - (3) No other cities are as hot as Chennai in India.
  - (4) Chennai is hotter than many other cities in India.

**Instruction for Question No. 02 & 03**

Read the report prepared for school Magazine. Choose one correct alternative.

Trekking camp of our NCC students

Forty students of our school NCC unit guided by Mr. Patil, programme officer, went on a ten day trekking camp to forests of Dandeli during summer holidays. We set out from our school campus on 10<sup>th</sup> May in a specially arranged bus. We started walking from there with essential things. We raised our tents in convenient places. For the next 8 days we trekked around near by hills. It was a wonderful out door experience for the students. We returned to campus safely on 22<sup>nd</sup> May.

02. Read the following sentence and choose one alternative to arrange the sentences in proper order.
- (1) It was a wonderful out door experience for the students.
  - (2) We set out from our school campus on 10<sup>th</sup> of May.
  - (3) We raised our tents in convenient places.
  - (4) We returned to campus safely on 22<sup>nd</sup> of May.
- |                |                |
|----------------|----------------|
| (1) 1, 4, 3, 2 | (2) 2, 3, 1, 4 |
| (3) 2, 3, 4, 1 | (4) 1, 2, 3, 4 |
03. They set out from school campus on \_\_\_\_\_ and returned safely on \_\_\_\_\_.
- (1) special bus, 22<sup>nd</sup> of May
  - (2) 22<sup>nd</sup> of May, 10<sup>th</sup> of May
  - (3) summer, near by hills
  - (4) 10<sup>th</sup> of May, 22<sup>nd</sup> of May

SPACE FOR ROUGH WORK

04. Choose one alternative  
Kabir wrote dohas and short poems.  
What does the underlined word mean?  
(1) verse (2) couplets  
(3) stanzas (4) extracts
05. Choose one correct alternative of underlined word.  
Ajinkya was suffering from illness. His family doctor said, "I suggest you to go to M.D. doctor."  
(1) Managing director (2) Management Diploma  
(3) Doctor of Medicine (4) Management of doctor
06. Choose one correct alternative.  
What figure of speech is used in the sentence.  
The director replied, "Many are called but few are chosen."  
(1) Antithesis (2) Irony  
(3) Pun (4) Personification

**Instruction for Question No. 07 & 08**

Read 'Nehru's letter to children' and choose one correct alternative.

Dear children,

I like being with children and talking to them and even more playing with them. For the moment I forget that I am terribly old and it is long since I was child.

Grown-ups have a strange way of putting themselves in compartment and groups. They build barriers..... of religion, cast, colour, party, nation, province, language, customs and of rich and poor. Thus they live in prisons of their own making.

Fortunately children do not know much about-these barriers. They play and work with each other.

Thus I have tried to talk to you in this letter as if you were sitting near me, I have written more than I intended.

Jawaharlal Nehru

**SPACE FOR ROUGH WORK**

07. 'They live in prisons of their own making'. What does it mean?
- (1) living in a strange way
  - (2) living with own relatives
  - (3) living in one's compartment and groups
  - (4) play and work together.

08. What is that moment when Nehru felt that he was terribly old?
- (1) writing a letter after talking to them
  - (2) while writing about old people
  - (3) while writing letter to children
  - (4) writing a letter while children are near.

09. Find out the pair of words which is of opposites.

A	B
(1) attire	clothing
(2) bliss	misery
(3) casual	informal
(4) unison	harmony

- (1) bliss-misery
- (2) attire-clothing
- (3) casual-informal
- (4) unison-harmony

10. Choose correct form of simple statement. Choose one alternative.

- (1) The moon rising at the end of their journey.
- (2) The moon rose before the end of their journey.
- (3) The moon rose and their journey ended.
- (4) Their journey ended as the moon rose.

11. Choose correct alternative of following sentence.

He says, "I am glad to be here this evening."

- (1) He says (that) he is glad to be here this evening.
- (2) He said that he was glad to be there that evening.
- (3) He says that he was glad to be there this evening.
- (4) He said that he is glad to be here that evening.

**SPACE FOR ROUGH WORK**

12. Choose two options of passive voice for the following sentence.

The managers will give you a ticket.

- (1) A ticket will be given to you by the manager.
- (2) You will be given a ticket by the manager.
- (3) You will give a ticket by the manager.
- (4) A ticket will be given to manager by you.

13. Choose one alternative for underlined word.

Hrishi stood in a long queue to withdraw money. He showed much patience.

- (1) adverb
- (2) adjective
- (3) verb
- (4) noun

14. Choose the correct alternative which has similar meaning.

Gurudev was a tactiturn, no nonsense kind of man.

- (1) reserved
- (2) talkative
- (3) social
- (4) person who use particular method.

15. Choose two correct alternative of collective nouns.

- (1) HERD, FLEET
- (2) CROWD, JURY
- (3) PARLIAMENT, FLOCK
- (4) TEAM, MOB

F	S	D	C	A
L	E	O	B	C
E	Q	G	W	L
E	H	O	X	G
T	E	A	M	S
M	R	P	O	V
N	D	G	B	Z

16. Choose one alternative of negative form of sentence.

As soon as he saw me, he came up and spoke to me.

- (1) No sooner did he see me than he came up and spoke to me.
- (2) No sooner does he see me than he came up and spoke to me.
- (3) No sooner do he see me than he came up and spoke to me.
- (4) No sooner he saw me than he came up and spoke to me.

SPACE FOR ROUGH WORK

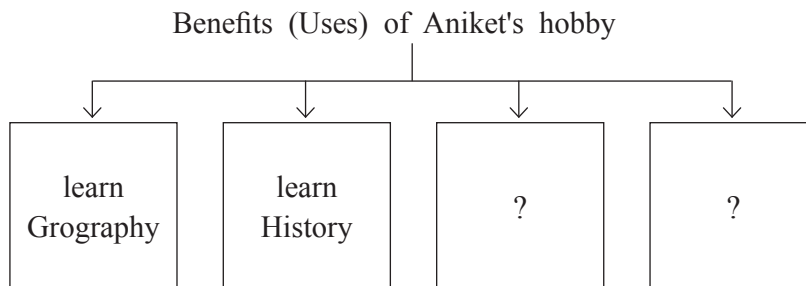
17. Read the sentence and find out kind of adverb clause. Choose one alternative.  
 The UNO was formed in order that countries might discuss world problem better.
- (1) Adverb clause of condition                      (2) Adverb clause of time  
 (3) Adverb clause of place                              (4) Adverb clause of purpose

**Instruction for Question No. 18 & 19**

Read the conversation and choose correct alternative of following questions :

- Aniket : I am in luck. My uncle has sent me a letter from Japan with some Japanese stamps. He often sends me foreign stamps from the places he visit.  
 Ajinkya : Are you going to paste them in your album?  
 Aniket : Yes, here it is.  
 Ajinkya : What a lot! French, Italian, Dutch, German, American, Turkish. You seem to have almost every country.  
 Aniket : I have not got yet. And some rare ones are very expensive.  
 Ajinkya : What is the use of collecting stamps?  
 Aniket : It's a hobby. It teaches you some Geography and History. Sometimes it brings money. I also spend my time nicely observing it.  
 Ajinkya : Good, keep it up!

18. Choose one alternative.  
 'Aniket has stamps of 'Sweden'. This sentence is \_\_\_\_\_.
- (1) True                      (2) Partially true                      (3) False                      (4) Can't say
19. Complete the following web by choosing two alternative.



- (1) brings fame    (2) brings money  
 (3) spends free time.                                      (4) spends time nicely

**SPACE FOR ROUGH WORK**

**Instruction for Question No. 20 & 21**

Read the poem 'A teacher for all seasons' by F. Joanna and choose one alternative.

A teacher for all seasons.

A teacher is like spring,  
    who nurtures new green sprouts,  
Encourages and leads them,  
    whenever they have doubts.  
A teacher is like summer  
    whose sunny temperament  
makes studying a pleasure,  
    preventing discontent.  
A teacher is like fall,  
    with methods crisp and clear,  
Lessons of bright colours,  
    And a happy atmosphere.  
A teacher is like winter,  
    while its snowing hard outside,  
Keeping students comfortable,  
    As a warm and helpful guide  
Teacher, you do all these things,  
    with a pleasant attitude,  
You're a teacher for all seasons,  
    And you have my gratitude!

– F. Joanna

20. The poet describes 'A teacher is for all seasons because \_\_\_\_\_.
- (1) A teacher works in all seasons.
  - (2) A teacher likes all seasons.
  - (3) A teacher endures all seasons.
  - (4) A teacher does various roles like a friend, guide, motivator.

**SPACE FOR ROUGH WORK**

21. Choose one alternative.

'A teacher is like Spring who nurtures new green sprouts because \_\_\_\_\_.

- (1) Students like to eat green sprouts.
- (2) Students are young and tender.
- (3) Students can not learn when they are small.
- (4) A teacher can teach when students are small.

**Instruction for Question No. 22 & 23**

Read the travelogue - "My trip to the city of dream : Mumbai" and choose one correct alternative.

My trip to the city of dream : Mumbai

Mumbai, formerly called Bombay is a sprawling, densely populated city on India's west coast. I took a flight in June from Delhi and was excited to see the city that never sleeps. I stayed at my brother's house - located on 17<sup>th</sup> floor of a highrising building with mesmerising view of whole city.

My day began with treats from a variety of the famous street food in Mumbai, starting with Vada pav and grilled sandwiches. I travelled on the beautiful and modern Worli Sea Link. Later we made our way to Gateway of India, the most famous monument in Mumbai. We visited many more places like Juhu Beach, Mount Mary Church.

I spent my day with a lot of enjoyment.

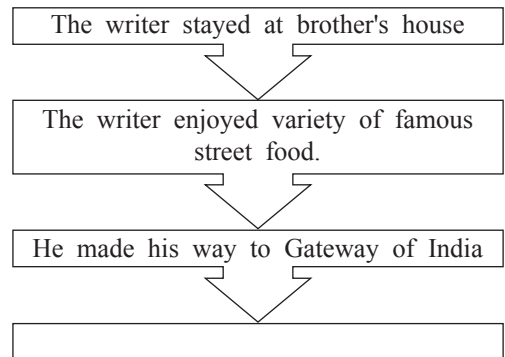
22. Read the travelogue and find out one alternative which explains experience of the writer.

The view of whole city from 17<sup>th</sup> floor of a highrising building was measmerising.

- (1) enchanting            (2) big                    (3) horrified            (4) memorable

23. Complete the following flow chart about how the writer took tour to Mumbai.

- (1) The writer took a flight in June from Delhi.
- (2) The writer travelled on the beautiful and modern Worli sea link.
- (3) The writer stayed at his brother's house.
- (4) The writer visited many more places like Juhu Beach, Mount Mary Church.



**SPACE FOR ROUGH WORK**



**Instruction for Question No. 24 & 25**

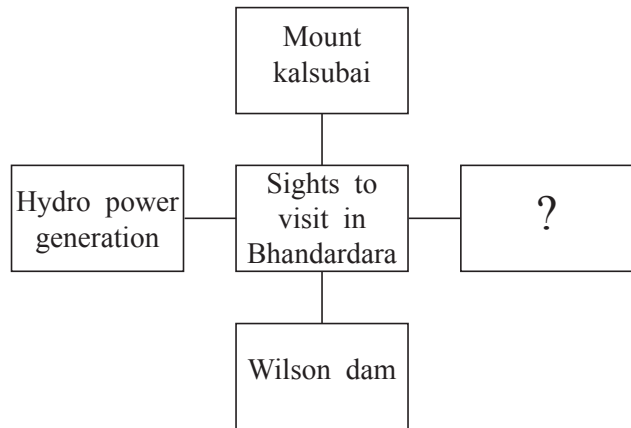
Read the passage and choose one alternative.

Bhandardara boasts of one of the highest hills in Maharashtra with dam-sites, temples, water falls, forts, a lake and a wildlife sanctuary. Situated 191 kms from Pune it is an ideal gateway. Taking a walk through the picturesque locations is very relaxing. The famous Wilson dam is a lovely site for picnicking as well. Built in 1910 on the Pravara river, the dam is almost 150 meters above sea level, its cool, placid waters running for miles. The Umbrella Falls here called the Randha Falls, are breathtaking as several streamlets cascade down 45 metres from the lake. These are used for hydropower generation.

Mount Kalsubai, the highest peak (1646 meters) of the Sahyadri Range ideal for trekkers. A small temple sits on the hilltop. Everywhere its really a breathtaking view.

24. Complete the web.

- (1) Ideal gateway
- (2) a breath taking view
- (3) Randha Fall
- (4) Maharashtra



25. What do we not find at Bhadardara?

- (1) bird sanctuary.
- (2) wild life sanctuary.
- (3) dam-sites.
- (4) forts.

**SPACE FOR ROUGH WORK**

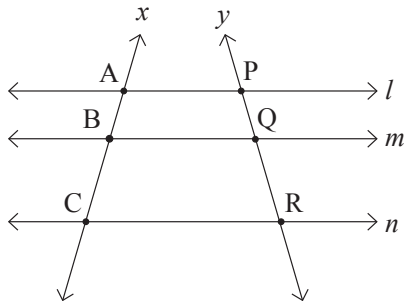
**SECTION - II****MATHEMATICS**

26. The ratio of supplementary angle and complementary angle of a given angle is 8:3. Then what will be the ratio of given angle with its supplementary angle?  
(1) 4:1 (2) 1:3 (3) 1:4 (4) 1:2
27. What is the cost of fencing a circular garden of radius 28 m with five rounds of wire, if the wire costs Rs. 50 per m?  
(1) Rs. 45,000 (2) Rs. 46,000 (3) Rs. 44,000 (4) Rs. 50,000
28.  $\left(\frac{-2x^2}{3y}\right)^3 = ?$  (Choose two correct options)  
(1)  $\frac{-8x^6}{27y^3}$  (2)  $\frac{-2x^6}{3y^3}$  (3)  $\frac{-8x^6}{-27y^3}$  (4)  $\frac{-8x^6y^{-3}}{27}$
29. The average of 10 numbers is 20. Out of which the average of first 6 numbers is 15. The average of last 3 numbers is 16 then what will be the seventh number?  
(1) 72 (2) 62 (3) 52 (4) 60
30. What is the sum of additive inverse of  $(5a - 3b)$  and additive inverse of  $(-6a + 2b)$   
(1)  $a + b$  (2)  $a - b$  (3)  $-a + b$  (4)  $-a - b$
31. Which of the following statement is wrong?  
(A) If a number is divisible by 2 and 5 then it is also divisible by 10.  
(B) The numbers divisible by 6 are also divisible by 2 and 3.  
(C) The numbers divisible by 7 are odd.  
(D) 1, 2, 3, 6 are common factors of all the numbers divisible by 6.  
(1) A (2) B (3) C (4) D
32. Which of the following statement is not true? (Choose two correct options)  
(A) The opposite angles of a parallelogram are congruent.  
(B) The adjacent sides of a parallelogram are congruent.  
(C) The diagonals of a parallelogram are congruent.  
(D) The diagonals of a parallelogram bisect each other.  
(1) statement A (2) statement B (3) statement C (4) statement D
33. The length of a cuboidal tank is one and half time its breadth and height is twice the length. If volume of the tank is 4500 cubic metre then what is the height of tank?  
(Choose two correct options)  
(1) 10 m. (2) 3000 cm (3) 30 m. (4) 1000 cm

**SPACE FOR ROUGH WORK**

34. If the diameter of a wheel of a tractor is 1.4 m. then how much distance is covered by the wheel in 400 complete rotation.  
 (1) 1.66 km (2) 1.56 km (3) 1.76 km (4) 1.86 km

35. In the adjoining fig. line  $l \parallel$  line  $m \parallel$  line  $n$  and line  $x$  and line  $y$  are their transversals. If  $AB = 18$  cm,  $BC = 30$  cm,  $QR = 21$  cm then  $PR = ?$



- (1) 8.4 cm  
 (2) 14.7 cm  
 (3) 12.6 cm  
 (4) 33.6 cm

36. If a number is divided by 18 then the remainder is 1, if it is divided by 24 then the remainder is 7 and if it is divided by 36 then the remainder is 19. What is the smallest such type of number?

- (1) 91 (2) 71 (3) 79 (4) 55

37. Which polynomial should be subtracted from the polynomial  $7x^2 - 2x + 4$  to get the polynomial  $10x^2 + 5$ ?

- (1)  $3x^2 + 2x + 1$  (2)  $-3x^2 - 2x - 1$   
 (3)  $3x^2 - 2x + 1$  (4)  $-3x^2 + 2x - 1$

38. 
$$\frac{\sqrt{1.96} - \sqrt{2.25} + \sqrt{2.89}}{\sqrt{0.000256}} = ?$$

- (1)  $10^2$  (2)  $10^3$  (3)  $10^{-2}$  (4)  $10^{-3}$

39. Pradnya has exactly same number of Rs. 2 coins and Rs. 5 coins. She has a total amount of Rs. 196 then how many coins of Rs. 5 she has?

- (1) 28 (2) 56 (3) 35 (4) 14

40. Two angles of measure  $40^\circ$  and  $140^\circ$  with different vertex are drawn then which of the following statement is true?

- (1) The given angles are supplementary angles.  
 (2) The given angles are linear pair of angles.  
 (3) The given angles are vertically opposite angles.  
 (4) The given angles are adjacent angles.

**SPACE FOR ROUGH WORK**

41. The co-ordinate of point P on a number line is  $-\frac{3}{7}$ . The distance between point P and point Q is 2 units then what will be the co-ordinate of point Q? (Choose two correct options)
- (1)  $-\frac{17}{7}$                       (2)  $\frac{11}{7}$                       (3)  $-\frac{1}{7}$                       (4)  $-\frac{5}{7}$
42. The radius of a circle with centre 'O' is 10 cm. The length of a chord is 16 cm. Find the distance of the chord from the centre of the circle.
- (1) 6 cm                      (2) 5 cm                      (3) 8 cm                      (4) 26 cm
43. A hall has length 30 meter and breadth 9.5 m. For flooring this hall, the square tiles are to be used of half meter side then how many tiles should be required?
- (1) 1240                      (2) 1140                      (3) 1340                      (4) 1150
44. Ajay scored 25% marks less than Balbir. Then Balbir scored how much percentage of marks more than Ajay?
- (1) 10                      (2)  $11\frac{1}{9}$                       (3) 25                      (4)  $33\frac{1}{3}$
45. The sides forming right angle of a right angled triangle are 8 cm and 15 cm then what is radius of circumcircle of that triangle?
- (1) 8.5 cm                      (2) 9.5 cm                      (3) 13 cm                      (4) 17 cm
46. If the side of an equilateral triangle is 18 cm then what is its area?
- (1) 81 sq.cm.                      (2)  $80\sqrt{3}$  sq.cm.                      (3)  $82\sqrt{3}$  sq.cm.                      (4)  $81\sqrt{3}$  sq.cm.
47. The rate of tickets of a bus are increased by 20%. After six months, the rate of tickets again increased by 10% then what is the percentage increase in the original rate of tickets.
- (1) 30%                      (2) 32%                      (3) 25%                      (4) 35%
48. A merchant purchased 25 dozen oranges at the rate of Rs. 25 per dozen. He sold all oranges at the rate of Rs. 32 per dozen. Then how much percentage of profit did he get?
- (1) 25                      (2) 32                      (3) 28                      (4) 7
49. A rope of length 216 m. is cut at five places at same distance then what is the length of each piece in cm?
- (1) 360 cm                      (2) 3600 cm                      (3) 36 cm                      (4) 36000 cm
50. Which of the following term should be added so that the expression  $49x^2 + \frac{64}{y^2}$  will be a perfect square? (Choose two correct options)
- (1)  $\frac{112x}{y}$                       (2)  $-\frac{112x}{y}$                       (3)  $-36xy$                       (4)  $\frac{56x}{y}$

**SPACE FOR ROUGH WORK**

51.  $\frac{6.28 \times 3.14}{9.42} \div \frac{(3.14)^2}{12.56} = ?$   
 (1)  $\frac{3}{8}$  (2) 0.6 (3) 1.3 (4)  $\frac{8}{3}$
52. The number of girls of 8<sup>th</sup> standard A division in a school at Beed is 5 more than half the number of boys. If total number of students in that division is 65 then how many girls are there in that division?  
 (1) 20 (2) 30 (3) 25 (4) 40
53. Which of the following statement is correct?  
 (A) The number  $+\frac{5}{13}$  is to the right side of the number  $\frac{3}{11}$  on the number line.  
 (B) The number  $\frac{7}{13}$  is to the left of zero.  
 (C) The numbers  $-\frac{4}{13}$  and  $\frac{2}{13}$  are to the left of zero on the number line.  
 (D) The number  $-\frac{5}{13}$  is to right of the number  $\frac{3}{13}$  on the number line.  
 (1) statement A (2) statement B (3) statement C (4) statement D
54.  $\frac{7.5 \times 7.5 - 7 \times 7.5 + 3.5 \times 3.5}{7.5 - 3.5} = ?$   
 (1) 3 (2) 4 (3) 5 (4) 2
55. The difference between sum of three consecutive prime numbers before 50 and after 50 is completely divisible by which of the following?  
 (A) 2 (B) 3 (C) 4 (D) 7  
 (1) only by A and B (2) only by C and D  
 (3) only by A and D (4) By A, B and D
56. What is the degree of product of polynomials  $x^3 - 2x^2 - 1$  and  $x - x^2$  ?  
 (1) 4 (2) 5 (3) 3 (4) 6
57.  $\frac{(\sqrt{x})^{\frac{2}{3}} \times (\sqrt{x})^{\frac{1}{3}} + \sqrt{x}}{(\sqrt{x})^{\frac{3}{4}} \times (\sqrt{x})^{\frac{1}{4}} + \sqrt{x}} = ?$   
 (1)  $\sqrt{x}$  (2) 1 (3)  $x$  (4)  $x^{\frac{1}{3}}$

**SPACE FOR ROUGH WORK**

58. A vehicle covers a distance of 42 km in one hour. Then how much distance will it cover at the same speed in 20 minutes?  
 (1) 21 km (2) 840 m. (3) 14 km (4) 20 km
59. Which of the following are the factors of polynomial  $(2x - 5)^3 - 64$  ?  
 (1)  $2(2x - 9)(2x^2 - 6x + 21)$  (2)  $(2x - 5)(4x^2 - 12x + 21)$   
 (3)  $(2x - 9)(4x^2 - 12x + 21)$  (4)  $(2x + 9)(4x^2 + 12x + 21)$
60. Santoshrao deposited Rs. 2,10,000 in bank for 5 years at simple interest. After the end of period, he received Rs. 3,36,000 from the bank. Then what was the rate of interest?  
 (1) 11% (2) 10% (3) 12% (4) 14%
61. The ages of 60 children in a class are given in the frequency distribution table below. From this, find their mean age.
- |                 |    |    |    |    |
|-----------------|----|----|----|----|
| Age (in years)  | 12 | 13 | 14 | 15 |
| No. of children | 13 | 12 | 21 | 14 |
- (1) 15 years (2) 13.6 years (3) 13 years (4) 14.5 years
62. The curved surface area of a cone is 47.10 sq.cm. If radius of the base is 3 cm then what is its perpendicular height? ( $\pi = 3.14$  cm)  
 (1) 3 cm (2) 4 cm (3) 5 cm (4) 15.7 cm
63. How many coins of thickness 0.2 cm and diameter 4 cm will be formed by melting a solid metallic cuboid of length 22 cm, breadth 18 cm and height 6 cm?  
 (1) 935 (2) 954 (3) 594 (4) 945
64. The area of a square is 4.41 sq.cm., then what is its perimeter?  
 (1) 4.2 cm (2) 10.4 cm (3) 8.8 cm (4) 8.4 cm
65. The base radius of a cylindrical tank is 28 cm. It contains water. A metal cuboid of length 44 cm, breadth 14 cm and height 8 cm is dropped into it. Then what is the increase in the level of water in tank?  
 (1) 2 cm (2) 2.5 cm (3) 3 cm (4) 1.5 cm
66. The length of side of a rhombus is 17 cm. If the length of one diagonal is 16 cm then what is the length of other diagonal?  
 (1) 30 cm (2) 17 cm (3) 8 cm (4) 34 cm
67. The population of a town was 75000. This population is increased by 10% next year. After that year, the population decreased by 8%. In the third year the population is increased by 5% then at the end of third year, what will be the population?  
 (1) 935550 (2) 78000 (3) 79695 (4) 77950

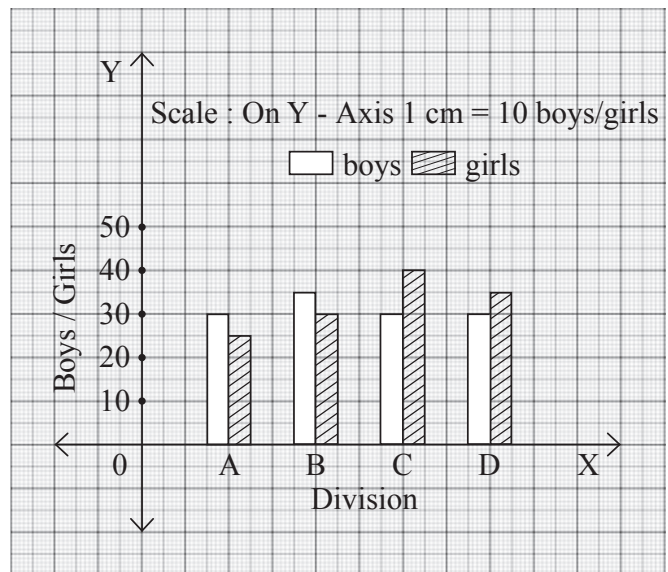
**SPACE FOR ROUGH WORK**

68. Ashok sold the necklace worth Rs. 15,00,000 at 20% profit. How much amount Ashok will get?  
 (1) Rs. 1,12,000      (2) Rs. 18,00,000      (3) Rs. 17,00,000      (4) Rs. 16,00,000
69. The measures of exterior angles of a triangle are  $115^\circ$  and  $117^\circ$  respectively, then which type of triangle is it?  
 (1) Acute angled triangle      (2) Obtuse angled triangle  
 (3) Right angled triangle      (4) Equilateral triangle
70. The length of a diagonal of a square is 11 cm then what is the length of its side?  
 (1) 11 cm      (2)  $11\sqrt{2}$  cm      (3)  $5.5\sqrt{2}$  cm      (4)  $7\sqrt{2}$  cm
71.  $3.9\%$  of 1530 = ? (Choose two correct options.)  
 (1) 59.67      (2)  $5967 \times 10^{-3}$       (3)  $5967 \times 10^{-2}$       (4) 5.967
72. The measure of a minor arc is  $160^\circ$  then what is the measure of corresponding major arc?  
 (1)  $160^\circ$       (2)  $320^\circ$       (3)  $200^\circ$       (4)  $80^\circ$
73. A shopkeeper gives 12% discount on the printed price of a mobile. He sold a mobile for Rs. 26,400. What was its printed price?  
 (1) Rs. 30,000      (2) Rs. 32,000      (3) Rs. 26,412      (4) Rs. 3,000

**Instruction for Question No. 74 & 75**

In the following joint bar graph, the number of boys and girls in divisions A, B, C, D of 8<sup>th</sup> standard are given. Observe the joint bar graph and answer the following questions.

74. What is the total number of students in all four divisions of 8<sup>th</sup> standard?  
 (1) 255  
 (2) 300  
 (3) 200  
 (4) 355
75. What is the ratio of number of boys with number of girls in B division?  
 (1) 6:7  
 (2) 7:6  
 (3) 5:6  
 (4) 6:5



**SPACE FOR ROUGH WORK**

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