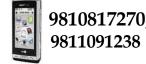


ashwanigupta50@yahoo.com gupta.ashwani50@gmail.com



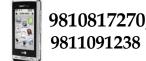
Class - X **Mathematics**

	<u>Sect</u>	<u>ion – 'A'</u>
1.	Which of the following equation has the sum	of its roots as -5 ?
	(a) $x^2 + 5x + 6$	(b) $x^2 - 5x + 6$
	(c) $x^2 - 5x - 6$	(d) $x^2 - 5x - 8$
2.	The sum of the first 10 positive numbers:	
	(a) -55	(b) -54
	(c) 55	(d) 54
3.	• •	50cm and $3cm$, then the length of each chord of one
	circle which is tangent to other is:	
	(a) 9 <i>cm</i>	(b) 4 <i>cm</i>
	(c) 8 <i>cm</i>	(d) 18 <i>cm</i>
4.	If the radii of the circle is $4cm$ than the distan	nce between the two parallel tangents is:
	(a) 6 <i>cm</i>	(b) 8 <i>cm</i>
	(c) 10 <i>cm</i>	(d) 5 <i>cm</i>
5.	Two tangents making an angle of 60° with ea	ich other, are drawn to a circle of radius 6cm, than the
	length of each tangent is equal to:	
	(a) $\sqrt{3}cm$	(b) $6\sqrt{3}cm$
	(c) $\sqrt{2}cm$	(d) $2\sqrt{3}cm$
6.	• •	ircle with centre O are inclined at each other at an angle of
	60° , then the $\angle POA$ is:	
	(a) 120°	(b) 40°
	(c) 60°	(d) 50°
7.		spectively are melted to form a single solid sphere, then th
	radius of the resulted sphere is:	
	(a) 18 <i>cm</i>	(b) 24 <i>cm</i>
	(c) 12 <i>cm</i>	(d) 9 <i>cm</i>
8.	The base area of the two right of the circular	cone of the same height are in the ratio 3: 5. The ratio of
	their volumes is:	
	(a) 3:5	(b) 9: 25
	(c) 27: 125	(d) 5: 3
9.	The shadow of a tower is $\sqrt{3}$ times the heigh	t of the tower, the angle of elevation of the sun is:
		(b) 30°
	(c) 45°	(d) none of these
10.	. A letter of English alphabet is chosen at rando	om. The probability is that letter so choose is a vowel:
	(a) 9	(b) $\frac{3}{}$
	(a) $\frac{1}{26}$	26
	(c) $\frac{4}{36}$	(b) $\frac{3}{26}$ (d) $\frac{5}{26}$
	Sort	ion - 'B'
		O is 2 find the value of k. Also find the other root
11	IT ONE POOT OF THE EQUIPTION $\forall \gamma^{\mu} = \nu \gamma = 1$	· II IS I TIND THE VALUE OF K WISO TIND THE OTHER FOOT

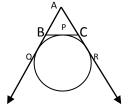
- 12. Which term of Arithmetic Progression 3, 10, 17... will be 84 more than its 13^{th} term?
- 13. The minute hand of the clock is $\sqrt{21}$ cm long. Find the area described by the minute hand on the face of the clock between 7:00AM and 7:05AM.



ashwanigupta50@yahoo.com gupta.ashwani50@gmail.com



14. In the figure, a circle touches the side BC of \triangle ABC at P & touches AB & AC produced at Q & R respectively. If AQ= 5cm, find the perimeter of \triangle ABC.



- 15. Find the point on the x axis which is equidistant from the points (-2,5)& (2,-3).
- 16. Find a relation between x and y such that the point (x, y) is equidistant from the points (7, 1) and (3, 5).
- 17. How many spherical bullets be made out of a spherical cube of lead whose edge measures 44cm, each bullet being 4cm in diameter? (use $\pi = \frac{22}{7}$)
- 18. A bag contains 3 red, 5 black and 7 white balls. A ball is drawn from the bag at random. Find the probability that the ball drawn is
 - (1) White
- (2) Red
- (3) Not Black
- (4) Red or White

OR

15 cards numbered 1, 2, 3...15 are put in a box and mixed thoroughly. A card is drawn at random from the box. Find the probability that a card bears

- (1) An even no.
- (2) A no. divisible by 2 or 3

Section - 'C'

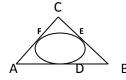
19. Solve for *x*:

$$\frac{x+1}{x-1} - \frac{x-1}{x+1} = \frac{5}{6} \qquad x \neq 1, \qquad x \neq -1$$

The sum of a number & its positive square roots is $\frac{6}{25}$. Find the number.

- 20. Find the sum of first 15 terms of an A. P. whose nth term is 9-5n
- 21.

A circle is inscribed in a \triangle ABC having sides 8cm, 10cm, &~12cm. Find AD, BE &~ CF.



OR

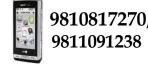
Two tangents TP & TQ are drawn to a circle with centre O from an external point T. prove that LPTQ = 2LOPQ

- 22. Draw a pair of tangents to a circle of radius 2cm that are inclined to each other at an angle of 90°
- 23. A solid metallic sphere of diameter 28cm is melted and recasted into a no. of small cones, each of diameters $4\frac{2}{3}$ cm and height 3cm. Find the no. of cones so formed.

OR

Water flows in the tank $150m \times 100m$ at the base through a pipe whose cross-section is 2dm by 1.5dm at the speed of 15km/hr. in what time the water be 3m deep?

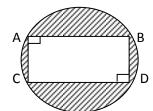




24. In the given figure

Find the area of shaded region

When AB = 12cm and AD = 5cm.



- 25. From the top of the tower 50m high the angles of the depression of the top and bottom of the pole are observed to be 45° & 60°. Find the height of the pole.
- 26. Find the value of m for which the points with co-ordinates (3,5), (m,6) & $\frac{1}{2}$, $\frac{15}{2}$ are collinear
- 27. The line joining the points (2,1) & (5,-8) is trisected at the points P &Q. If the P point lies on the line 2x y + k = 0, find the value of k.

Section - 'D'

- 28. All the three face cards of spades are removed from a well shuffled pack of 52 cards. A card is then drawn at random from the remaining pack of cards. Find the probability of getting
 - (1) A black face card.
- (2) A Queen
- (3) A black card.
- 29. Prove that the intercept of a tangent between two parallel lines to a circle with the centre O subtends a right angle at the centre.
- 30. If the radii of the ends of the bucket, 45cm high are 28cm and 7cm, determine the capacity and total surface area of bucket.

Or

A well with 10m inside diameter is dug 14m deep. Earth taken out of it and spread all around to a width of 5m to form a embankment. Find the height of the embankment.

- 31. A toy is in the shape of a right circular cylinder with a hemisphere on one end and a cone on the other. The radius and height of the cylindrical part at 5cm and 13cm respectively. The radius of the hemispherical part and the conical part is as same as that of cylindrical part. Find the surface area of toy if the total height of the toy is 30cm.
- 32. A speed of a boat in still water is 11km/gr. It can go 12km upstream & return downstream to the original point in 2hrs 45minutes. Find the speed of the stream

Or

A dealer sells an article for Rs. 24 & gains as much per cent as the cost price of the article. Find the cost of the article.

- 33. A manufacturer of TV sets produced 600 sets in the third year and 700 sets in the seventh year. Assuming that the production increases uniformly by a fixed number every year, find:
 - (i) the production in the 1st year
 - (ii) the production in the 10th year
 - (iii) the total production in first 7 years

www.AshwaniGuptaMaths.weebly.com ashwanigupta50@yahoo.com gupta.ashwani50@gmail.com

34. From a window (60m high above the ground) of a house in a street the angles of elevation & the depression of the top & the foot of another house on the opposite side of street are 60° & 45° respectively. Show that the height of the opposite house is $60(1+\sqrt{3})$ metres.

M. C.O. Answers:

- 1. а 2. b
- 4.
- b
- 6. С
- 7.
- 8. b
- 9.
- 10. D

To get more MCQs of each chapter Details are given below: All the MCQ'S would be sent via email You can call us on 9810817270, 9811091238 to get the MCQ's All rates are negotiable



9810817270 9811091238

Class IX – Mathematics Rate List

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Linear Equations in Two Variables	80	Rs. 600/—	Rs. 200/—	E — mail
Quadrilateral s	80	Rs. 600/—	Rs. 200/—	E-mail
Circles	80	Rs. 600/—	Rs. 200/-	E — mail
Construction	50	Rs. 300/-	Rs. 150/—	E — mail

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Areas of Parallelogram s and Triangles	80	Rs. 600/—	Rs. 200/—	E — mail
Surface Areas and Volumes	80	Rs. 600/—	Rs. 200/—	E-mail
Statistics	80	Rs. 600/—	Rs. 200/—	E — mail
Probability	50	Rs. 350/—	Rs. 150/—	E-mail

For spiral binded Book-let (Math IX-Sem 2) with answer key, it costs

Rs. 5555/- only (Courier charges Extra)



9810817270, 9811091238

Class X - Mathematics Rate List

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Arithmetic Progression	80	Rs. 600/—	Rs. 200/—	E — mail
Co-ordinate Geometry	50	Rs. 400/—	Rs. 150/—	E-mail
Some applications of Trigonometry	50	Rs. 400/—	Rs. 150/—	E — mail
Circles	80	Rs. 600/—	Rs.300/-	E — mail

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Construction	50	Rs. 400/-	Rs. 150/-	E - mail
Area of Circles	50	Rs. 400/-	Rs. 150/-	E — mail
Surface Areas and Volumes	80	Rs. 600/-	Rs. 200/-	E – mail
Statistics and Probability	80 + 40	Rs. 1000	Rs. 500/-	E – mail

For spiral binded Book-let (Math X-Sem 2) with answer key, it costs

Rs. 5555/- only (Courier charges Extra)



9810817270, 9811091238

Class IX – Science Rate List

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Atoms and Molecules	120	Rs. 950/-	Rs. 450/-	E - mail
Work and Energy	50	Rs. 400/-	Rs. 150/-	E – mail
Diversity in Living Organisms	120	Rs. 950/-	Rs. 450/-	E — mail
Structure of the Atom	80	Rs. 600/-	Rs. 300/-	E — mail

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Sound	50	Rs. 400/-	Rs. 200/-	E — mail
Why do we Fall ill	80	Rs. 600/-	Rs.300/-	E — mail
Natural Resources	80	Rs. 600/-	Rs.300/-	E — mail

For spiral binded Book-let (Science IX-Sem 2) with answer key, it costs

Rs. 6666/- only(Courier charges Extra)

"Chase Excellence- Success Will Follow"



9810817270 9811091238

Class X - Science Rate List

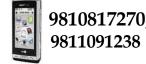
Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Carbon and Its Compounds	80	Rs. 950/—	Rs. 450/-	E-mail
Periodic Classification of Elements	80	Rs. 600/-	Rs. 300/-	E-mail
How do Organisms Reproduce	80	Rs. 600/—	Rs. 300/-	E-mail
Heredity and Evolution	80	Rs. 600/-	Rs. 300/-	E-mail

Chapter	No. of MCQ's	Cost of Question Bank	Cost of solution key	Sent via
Light- Reflection and Refraction	160	Rs. 1200/-	Rs. 500/-	E – mail
Human Eye and the Colourful World	50	Rs. 400/-	Rs. 200/-	E – mail
Our Environment	50	Rs. 400/-	Rs. 200/-	E - mail

For spiral binded Book-let (Science IX-Sem 2) with answer key, it costs

Rs. 6666/- only (Courier charges Extra)





HOW to BUY?

How to get MCQ's at your Home:

Follow these easy steps -

- (i) Sort the chapters from the Price-list given in slide-show.
- (ii) Sum-up the amount if you want booklet of a particular subject.
- (iii) Courier and handling charges for booklet: Rs 300/- extra
- (iv) Deposit the amount in your nearby branch of **PUNJAB NATIONAL BANK** by name of **Ashwani Gupta, A/c No.: 3061000100170447**, (Our Branch K. H. R. M. school, Ashok Vihar Delhi-110052); write your name n place of depositor.
- (v) Call / SMS your Name, Full Postal Address with Pin-Code No., email-id, Name of the Chapter, amount deposited,

Your Mobile No. to us on mobile number +91 9810817270, So that the required sets could be

sent

to you via email within 24hrs...

Sample SMS:

Name: Ms. Rahul Sharma, C/O Shri Alok Sharma,

Plot no. 237, C-Sector Indraprashta Delhi

PIN-462021.

Email- sharma.alok5@yahoo.in Chapters:Probability, surface area amount deposited:Rs. 3210/-,

contact: +91 2751646, 9406543504.

^{*} We send **the book-let through** Speed Post or Courier which normally takes 4 to 7 days to reach. For urgent delivery through air (Within 24-48 Hrs.) Please contact us on **+91-9810817270**, **9811091238**.