

Mathematics Paper – II

CLASS - IX

Final Term 2010-11

(Humanities Group)

Time allowed: 45 minutes

Max. Marks: 30

Student's Full Name: _____

Roll No: _____ Section: _____ Invigilator's signature: _____

Marks Obtained: _____ Examiner's Signature: _____

Re-checker's signature: _____ Date: _____

INSTRUCTIONS:

1. Read each question carefully.
2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the question paper.
3. There are 30 answer numbers on the answer sheet. Use answer numbers 1 to 30 only.
4. In each question there are four choices A, B, C and D. Choose ONE. On the answer grid black out the box for your choice with a pencil as shown below.

Correct Way				Incorrect Way					
1	A	B	C	D	1	A	B	C	D
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					2	A	B	C	D
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					3	A	B	C	D
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					4	A	B	C	D
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

5. If you want to change your answer, ERASE the first answer completely with a rubber, before blacking out a new box
6. Do NOT write anything in the answer grid. The computer only records what is in the boxes.

1). What percentage of Rs.75 is Rs.45:

- a). 25 %
- b). 60 %
- c). 45 %
- d). 50 %

2). The ratio of 50gm to 1 kilogram is:

- a). 0.5
- b). 0.05
- c). 2
- d). 20

3). In $9 : x :: x : 4$, the value of x will be:

- a). 36
- b). 6
- c). -6
- d). -6 & +6

4). Monthly savings of a person is Rs, 2000, Zakat paid by him at the end of the year will be:

- a). Rs, 1500
- b). Rs, 1000
- c). Rs, 600
- d). Rs, 250

5). Cost of a bag is \$28 is sold for \$ 35. The percentage of profit will be:

- a). 25 %
- b). 20 %
- c). 9 %
- d). 3.5 %

6). A bookseller gains 30% by selling a book for \$65. The cost price of the book will be:

- a). \$ 30
- b). \$ 19
- c). \$ 50
- d). \$ 12

7). Price of a watch is Rs, 1600 is sold for Rs, 1400. Discount in percentage will be:

- a). 4.2 %
- b). 12.5 %
- c). 20 %
- d). 5 %

8). $34\sqrt{23} + 38\sqrt{23}$

- a). $72\sqrt{23}$
- b). $\sqrt{23}$
- c). $4\sqrt{23}$
- d). 72×23

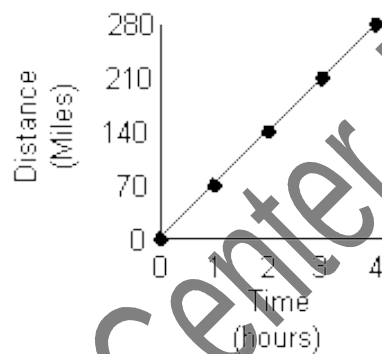
9). Simplify: $(7)^{5/2}$ divided by $(7)^{1/2}$ is equal to:

- a). 7^3
- b). 7^{-3}
- c). 49
- d). 1

10) A cumulative frequency distribution is graphically represented by:

- a). Histogram
- b). Bar Chart
- c). Pie Chart
- d). Ogive or cumulative frequency polygon

11). The line graph below shows the distance traveled of an object 70 mph from 0 to 4 hours.



Find the distance traveled by it after 3.5 hrs:

- a). 125 Miles
- b). 350 Miles
- c). 245 Miles
- d). 400 Miles

12). The table below shows the exchange rates of the various currencies against Singapore dollar:

Singapore \$ to 1 unit of foreign currency	<u>Currency</u>	<u>Buying</u>	<u>Selling</u>
	Malaysian Ringgit	2.5803	2.6058
	Thai Baht	55.6690	57.8960
	Indonesian Rupiah	625	628
	Us Dollar	1.4000	1.420

Based on the rates quoted in the table if a tourist converts his Malaysian ringgit 2,500 into Singapore dollars, then he will get:

- a). Singapore \$ 6450.75
- b). Singapore \$ 968.87
- c). Singapore \$ 6514.50

d). Singapore \$ 959.39

13). A frequency polygon may be drawn on:

- a). Pie Diagram
- b). **Histogram**
- c). Bar diagram
- d). Frequency Curve

14). The yearly savings of a joint ventured business of two partners is Rs 6, 00,000 which is divided among them in the ratio of 3:9, then the amount of Zakat payable by the partner of higher income will be:

- a). Rs.25000
- b). Rs.6000
- c). Rs.11,250
- d). Rs.7,725

15). Complete the following table:

	Principal	Interest Rate	Time / period	Simple Interest
a	\$ 12,000	8%	7 years	?

- a). \$ 18530
- b). **\$ 6,720**
- c). \$ 4650
- d). \$ 9880

16). If $x : y = 3 : 4$ then the value of $7x - 4y : 3x + y$ will be:

- a). **5:13**
- b). 12: 17
- c). 14: 21
- d). 4: 7

17). The 7th term in the sequence 1, 4, 7,..... is:

- a). 70
- b). 18
- c). **19**
- d). 49

18). The Arithmetic mean between $\sqrt{5} - 4$ and $\sqrt{5} + 4$ will be:

- a). **$2\sqrt{5}$**
- b). $\sqrt{5}$
- c). 4
- d). $8\sqrt{5}$

19). The G.M between 2 & 8 will be:

- a). 10
- b). 6
- c). $2\sqrt{5}$
- d). + 4 & - 4

20). The base of natural logarithm is:

- a). 2
- b). 10
- c). 20
- d). 5

21). The number of elements in set A is 2 and set B is 3, then the number of elements in set A x B is:

- a). 2
- b). 6
- c). 4
- d). 8

22). {1, 2, 3,.....} is a set of:

- a). Whole numbers
- b). Natural numbers
- c). Even numbers
- d). Prime numbers

23). The range of A {(1, 0), (2, 1), (4, 3)} is:

- a). {2, 3, 4}
- b). {0, 1, 3}
- c). {1, 2, 4}
- d). {0, 2, 3}

24). According to the properties of sets $A \cup A^c$ is equal to:

- a). U
- b). \cap
- c). Null set
- d). Infinite set

25). The value of a flat is Rs. 25,000,00 and the property tax imposed on it @ 0.2% per annum, the half yearly property tax amount will be :

- a). Rs. 12,000
- b). Rs. 10,000
- c). Rs. 5,000
- d). Rs. 2,500

26). An article has a value added tax of 15% on it. If the marked price of the article is Rs. 6400, the total amount paid by the buyer will be:

- a). Rs. 7,360
- b). Rs. 8,060
- c). Rs. 11,500
- d). Rs. 9,350

27). By using the Taxation table given below, Calculate the Income tax on the chargeable income of \$ 8,450:

<u>Chargeable Income (\$)</u>	<u>Rate in %</u>	<u>Gross Tax Payable (\$)</u>
5,000	2.5	125.00
2,500	5	125.00
7,000	Fixed	250.00
2,500	6	150.00
10,000	Fixed	400.00
5,000	7	350.00
15,000	Fixed	750.00

- a). \$ 250
- b). \$ 600
- c). \$ 450
- d). \$ 307

28). Mr. Wong's weekly salaries after 8% of overtime addition becomes \$ 864 calculate his basic salary without over time inclusive:

- a). \$ 655
- b). \$ 890
- c). \$ 778
- d). \$ 800

29). Calculate the interest rate from the following information:

	<u>Principal</u>	<u>Interest Rate</u>	<u>Time / period</u>	<u>Amount</u>
a	\$ 4,500	?	2 years	\$ 5,040

- a). 2.5 %
- b). 1.6 %
- c). 6.0 %
- d). 3.5 %

30). When interest is computed only on principal for the entire period, it is called as:

- a). Compound Interest
- b). Compound Amount
- c). Simple Interest
- d). Interest rate