S.NO	ANSWER THE FOLLOWING QUESTIONS
1	Write the usual form of i) 3.4×10^{-3} ii) 9.28×10^6
2	Find the product of a) $(-3xy^6)$ $(-2x^3y^3)$ $(-4x^4y)$ b) $(3c – 5d)(2c – d + 5)$
3	The volume of a cubical room is 729 m^3. Find the cost of white washing its four walls at the rate of Rs. 15 per sq.m .
4	Find the square root of 81 x 121
5	Solve $\dfrac{2 - y}{y + 16}$ = $\dfrac{3}{5}$
6	Find the products using suitable identities a) $(3x + 5)(3x – 2)$ b) $(5m^2 - 2n)(5m^2 – 2n)$
7	A chair marked at Rs 1500 was sold at Rs 1080 after allowing a certain discount. Find the rate of discount.
8	The value of a Printing Machine depreciates at the rate of 10% p.a. What will be its value after 3 years if its present value is Rs. 30,000.
9	The difference between two positive integers is 50. The ratio of these integers is 1: 3. Find the Integers.
10	Construct a parallelogram whose two sides and one angle are 4 cm and 5.5 cm and 75° respectively.
11	Find the square root of 3 correct to 2 places of decimals
12	Find the sum of the lengths of the bases of a trapezium whose area is 4.2 sq. m and whose height is 280cm.
13	Construct a quadrilateral ABCD in which AB = 4.5 cm, BC = 4cm, CD = 6.5 cm, DA = 3 cm and BD = 6.5 cm.
14	Find the difference between the simple interest and compound interest on 25,000 for 2 years at 6% per annum.
15	The circumference of the base of a cylindrical vessel is 132 cm and its height is 25 cm. How many litres of water can it hold?
16	Find the square root of 363609 by division method.
17	The following table shows the runs scored by a team in a 20- over cricket match. Draw a line graph to represent the data.

Number of overs	5	10	15	20
Runs	10	40	120	160

18	The following table gives the career choice of a group of 150 students. Draw a Pie chart

Career Choice	Medicine	Engineering	Commerce	Sciences	Humanities
Number of students	12	48	50	20	30

19	A card is picked at random from a pack of 52 cards. Find the probability of (I) getting a diamond(ii) getting a face card (iii) getting a number card
20	When a die is thrown, find the probability of getting (i) a number less than or equal to 6 (ii) a number greater than 6.
21	If the total surface area of a cube is 864 sq.cm, find its lateral surface area.
22	Find the length of the cloth required to cover a cylindrical lampshade of radius 14 cm and height 15 cm.
23	Find the radius of the base of a cylinder whose curved surface area is 1232 sq. cm and height is 28cm.
24	A rhombus is drawn by joining the midpoints of the sides of a rectangle whose length is 8 cm and breadth is 6 cm. find the area of the Rhombus.
25	Factorise the following(i) $4a^2 + 20a + 25$ (ii) $(2a + 3b)^2 - (2a - 3b)^2$ (iii) $x^2 - 8xy - 48y^2$
26	Find the least number that must be added to 9577 to make it a perfect square.
27	Find the cost of painting the four walls and the ceiling of a room whose dimensions are 14m x 12m x 8m at the rate of Rs. 50 per sq. m.
28	Simplify using laws of exponents : $\dfrac{3^{-2}}{15}$ x $\dfrac{25}{2^3}$ x $\dfrac{16}{27}$
29	Sumit took a loan of Rs. 90000 from a bank. If the rate of interest is 10% per annum compounded annually, find the amount at the end of 18 months
30	The length, breadth and height of a cuboid are in the ratio 7:6:5. If the surface area of the cuboid is 1926 sq. cm. find the surface area of the cuboid.
31	Factorize the following (i) $3x^3 - 48x$ (ii) $b^2a^2 - a^2 - b^2 + 1$
32	The frequency distribution of weights of 40 persons in class 8 is given below. Draw a histogram for the same

Weight (kg)	40 - 45	45 -50	50 - 55	55 - 60	60 -65
Frequency	4	12	13	6	5

33	Pulse rate per minute of 30 persons in an hospital is recorded as follows. Construct a frequency table using 60 – 65 as one of the class intervals. 61,76,72,73,71,66,78,73,68,81,78,63,72,75,80,68,75,62,71,81,73,60,79,72,73,74,71,64,76,71

INDIAN SCHOOL MUSCAT – MIDDLE SECTION – DEPARTMENT OF MATHEMATICS (2017-18)

CLASS: 08   PORTION FOR THE FINAL EXAMINATION   TOTAL MARKS - 80

S.NO	TOPIC		
1	FACTORISATION	6	DATA HANDLING
2	EXPONENTS AND POWERS	7	INTRODUCTION TO GRAPHS
3	COMPARING QUANTITIES	8	SQUARES AND SQUARE ROOTS
4	LINEAR EQUATIONS IN ONE VARIABLE	9	PRACTICAL GEOMETRY
5	MENSURATION	10	ALGEBRAIC EXPRESSIONS AND IDENTITIES