

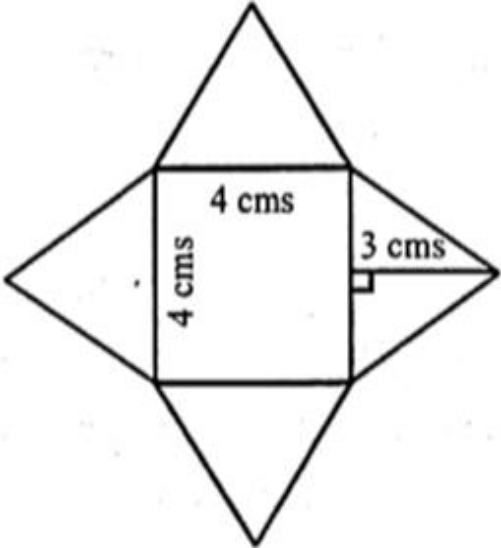
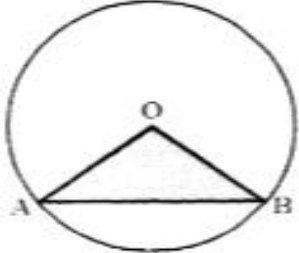
MULTIPLE CHOICE QUESTION EXAMINATION - 5 (30.11.2023)

Time Allowed : 3 hours

CLASS : VII

Maximum Marks : 120

Attempt all questions		
1	The average of the middle two rational numbers if $\frac{4}{7}, \frac{1}{3}, \frac{2}{5}, \frac{5}{9}$ are arranged in ascending order is: a) $\frac{86}{45}$ b) $\frac{43}{45}$ c) $\frac{86}{90}$ d) $\frac{43}{90}$	1
2	If $m = (-28) + 26 + (-28) + 26 + \underline{\hspace{2cm}}$ (40 terms) and $n = 39 + (-35) + 39 + (-35) + \underline{\hspace{2cm}}$ (40 terms) then $m - n$ is equal to $\underline{\hspace{2cm}}$. a) 120 b) - 120 c) - 40 d) 40	1
3	How many pairs of twin primes are there between 50 and 100? a) Two b) Four c) Single d) Three	1
4	If $A = (-1)^1 + (-1)^2 + (-1)^3 + \underline{\hspace{2cm}} + (-1)^{1001}$ and $B = (-1)^1 - (-1)^2 + (-1)^3 - (-1)^4 + \underline{\hspace{2cm}} + (-1)^{1001}$, then find $A - B$. a) 1001 b) 1000 c) - 1001 d) - 1002	1
5	How many $\frac{3}{5}$ kg pieces can be cut from a cake of weight 6 kg? a) 10 b) 12 c) 8 d) 9	1
6	By what number should we multiply $\frac{15}{-28}$ so that the product may be $\frac{-5}{7}$? a) $\frac{4}{3}$ b) $-\frac{4}{3}$ c) $-\frac{3}{4}$ d) $\frac{3}{4}$	1
7	A pillar has three colours, of which $\frac{7}{8}$ m of it is yellow, $\frac{12}{24}$ m of it is green and $3\frac{1}{2}$ m of it is white. Find the length of the pillar. a) $4\frac{7}{24}m$ b) $4\frac{7}{8}m$ c) $5\frac{3}{4}m$ d) $8\frac{2}{9}m$	1
8	Which one of the following is not true? (i) There does not exist any rational number whose square is 4	1

16	Find the area of a semi - circle of radius 7 cm. a) 110 cm^2 b) 90 cm^2 c) 70 cm^2 d) 77 cm^2	1
17	The figure shown below consists of one square and four congruent triangles.  What is the total area of the figure - a) 16 cm^2 b) 22 cm^2 c) 28 cm^2 d) 40 cm^2	1
18	What is the circumference of a circular disc of radius 14 cm? a) 88 cm b) 11 cm c) 44 cm d) 22 cm	1
19	The area of a circle is 13.86 hectares. The cost of fencing it at the rate of 60 paise per metre is a) ₹ 784.00 b) ₹ 792.00 c) ₹ 788.00 d) ₹ 796.00	1
20	The diameter of the wheels of a bus is 140 cm. How many revolutions per minute must a wheel make in order to move at a speed of 66 km/hr? a) 240 b) 270 c) 250 d) 280	1
21	Four circles of radius 1 cm each are placed in such a way on a plane paper that each touches the other. Find the area (cm^2) of the space left in between the four circles, ($\pi = 3.14$) a) 0.88 b) 0.82 c) 0.84 d) 0.86	1
22		1

	In the given figure, what is the area of $\triangle AOB$ of 14 cm radius circle when $\angle AOB = 90^\circ$? a) 196 cm^2 b) 154 cm^2 c) 77 cm^2 d) 98 cm^2	
23	A string with which a goat is tied. It has been increased from 12 m to 23 m. Now how many more grass - fed areas, she can graze? a) 1210 m^2 b) 1225 m^2 c) 1250 m^2 d) 1200 m^2	1
24	Find the area of a right - angled triangle if base of the triangle is 45 cm and its height is 40 cm. a) 770 cm^2 b) 800 cm^2 c) 870 cm^2 d) 900 cm^2	1
25	The area of a parallelogram is 288 cm^2 and its height is 16 cm. Find the length of the corresponding base. a) 20 cm b) 24 cm c) 22 cm d) 18 cm	1
26	Find BC, if the area of the triangle ABC is 36 cm^2 and the height AD is 6 cm. a) 16 cm b) 12 cm c) 14 cm d) 10 cm	1
27	The areas of two circles are in the ratio 49 : 64. Find the ratio of their circumferences. a) 5 : 9 b) 7 : 8 c) 5 : 3 d) 5 : 8	1
28	The terms of expression $4x^2 - 3xy$ are a) $4x^2$ and -3 b) $4x^2$ and $-3xy$ c) x^2 and xy d) $4x^2$ and $3x$	1
29	The value of expression $5n^2 + 5n - 2$ for $n = -2$ is a) 8 b) - 12 c) - 8 d) 10	1
30	The number of scarfs of length half metre that can be made from y metres of cloth is : a) $y + 2$ b) $2y$ c) $y + \frac{1}{2}$ d) $\frac{y}{2}$	1
31	The value of expression $2a - 2b - 4 - 5$ at $a = 1, b = -2$ is a) - 3 b) - 2 c) 2 d) None of these	1

32	The value of $3x^2 - 5x + 3$ when $x = 1$ is a) - 1 b) 11 c) 1 d) 0	1
33	Find the value of $13(7a - 4b)$ for $a = 3, b = 2$. a) 144 b) 169 c) 121 d) None of these	1
34	$123x^2 y - 138x^2 y$ is a like term of : a) - 15xy b) $10x^2 y$ c) $- 15xy^2$ d) $10xy$	1
35	The like terms in $3x(3 - 2y)$ and $2(xy + x^2)$ are a) $- 6xy$ and $2x^2$ b) $9x$ and $2xy$ c) $- 6xy$ and $2xy$ d) $9x$ and $2x^2$	1
36	Find the value of $x^2 y^2 + 2xy^2 z + y^2 z^2 - 2x^2 y^2 z$ when $x = -1, y = 1, z = 2$. a) 2.5 b) - 3 c) 5 d) 3	1
37	Which of the following is like term as $7xy$? a) 9 b) $9x$ c) $9yx$ d) $9xy$	1
38	Which of the following is a binomial? a) $3x$ b) $7 - 3x + 4$ c) $4x + y + 2$ d) $2x + 7$	1
39	Which of the following is a pair of like terms? a) $4xyz^2, 4x^2 yz$ b) $- 10xyz^2, 3xyz^2$ c) $3xyz, 3x^2 y^2 z^2$ d) $-7xy^2 z, -7x^2 yz$	1
40	Coefficient of x in $- 9xy^2 z$ is a) $- 9y^2 z$ b) $9yz$ c) $9y^2 z$ d) $- 9yz$	1
41	Winding clocks and wristwatches are refinement of a) Sundial b) Pendulum clock c) Atomic clock d) Electric clock	1
42	S.I unit of speed is _____. a) km/s b) m/h c) m/s d) km/h	1
43	The distance - time graph of an object is a straight line perpendicular to the distance axis. What does this graph indicate about the motion of the object?	1

	a) The object is not moving (stationary) b) The object's speed is uniform c) The object is moving in a traffic. d) The objects's speed is non - uniform	
44	Which is the most accurate watch? a) Atomic watch b) Stopwatch c) Quartz clocks d) Digital clock	1
45	One hour is equal to: a) 3600 seconds b) 1800 seconds c) 1200 seconds d) 600 seconds	1
46	Distance covered by a body can be calculated by a) Multiplying mass with time b) Multiplying speed with time c) Dividing speed with time d) Adding speed and time	1
47	Time taken to complete one vibration is called_____ a) Pulse b) Vibration c) Time length d) Time period	1
48	The time period of a simple pendulum depends upon its: a) Independent of both length of the pendulum and mass of the bob b) Length of string c) Both length of the pendulum and mass of the bob d) Mass of bob	1
49	Number of vibration per second is called a) Speed b) Motion c) Wavelength d) Frequency	1
50	The stopwatch is used to measure: a) Time lapse b) Total distance travelled c) Exact time during the event d) Correct time	1
51	When a body covers equal distance in equal interval of time. The speed of the body is called as a) Uniform speed b) Average speed c)Non-uniform speed d) Linear speed	1

52	A bus covers a distance of 120 m in 1 minute. Its average speed in m/s is a) 60 m/s b) 2 m/s c) 120 m/s d) 10 m/s	1
53	Odometer is used to measure: a) Size of the vehicles b) Total time taken c) Total distance travelled d) Speed of the vehicles	1
54	Lightning of thunder is heard earlier than it sound because a) Light travels faster than sound b) Sound travels faster in air c) Speed of light is less in air d) Light is slower than sound	1
55	How much time a car will take to cover 200 km at a speed of 40 km/h? a) 5 h b) 8 h c) 10 h d) 4 h	1
56	Odometer is used to measure a) Total time taken b) Speed of the vehicles c) Total distance traveled d) Size of the vehicles	1
57	Distance covered by a body can be calculated by: a) Multiplying mass with time (Mass \times Time) b) Dividing speed with time $\left(\frac{Speed}{Time}\right)$ c) Adding speed and time (Speed + Time) d) Multiplying speed with time (Speed \times Time)	1
58	Which one records the distance travelled by a vehicle? a) Odometer b) Speedometer c) Manometer d) Motometer	1
59	In 100 m race the time taken by the athletes is measured in	1

	a) Second b) Nanosecond c) Minute d) Microsecond	
60	The basic unit of speed is: a) km/min b) m/s c) m/min d) km/h	1
61	Boojho walks to his school which is at a distance of 3 km from his home in 30 minutes. On reaching he finds that the school is closed and comes back by bicycle with his friend and reaches home in 20 minutes. His average speed in km/h is a) 3.6 b) 8.3 c) 5 d) 7.2	1
62	A car is moving with 72 km/hrs. The speed of car in m/s is_____. a) 25 m/s b) 40 m/s c) 20m/s d) 30 m/s	1
63	To and fro movement along an axis is called_____. a) Oscillation b) Frequency c) Reverberation d) Vibration	1
64	A sundial built in the 18th century by Maharaja Jaisingh of Jaipur can be seen in which one of the following monuments. a) Lotus Temple b) Jantar Mantar c) Qutub Minar d) Red Fort	1
65	What kind of motion a bullet shows when fired from a gun? a) Linear motion b) Non - periodic motion. c) Translatory motion d) Random motion	1
66	Nearly all the clocks make use of: a)Periodic motion b)Circular motion c)Straight-line motion d)Random motion	1
67	The distance - time graph for the motion of an object moving with a constant speed is: a) A straight line inclined at some angle towards x - axis	1

	<p>b) A curved line inclined towards y - axis</p> <p>c) Perpendicular to x axis</p> <p>d) A curved line leaving towards x - axis</p>	
68	<p>Which of the following instrument measure time with the most accuracy?</p> <p>a) sand clock b) quartz clock c) mechanical clock with gears d) sun dial</p>	1
69	<p>One - millionth of a second is called:</p> <p>a) Microsecond b) Picosecond c) Nanosecond d) Femtosecond</p>	1
70	<p>A simple pendulum completes 150 oscillations in 30 s. The frequency of the pendulum is:</p> <p>a) 15 Hz b) 3 Hz c) 5 Hz d) 10 Hz</p>	1
71	<p>A body covers 50 m in the first 2 seconds, 50 m in the next 2 seconds, and 100 m in the next 4 seconds. The speed of the body is:</p> <p>a) Uniform</p> <p>b) First uniform then non - uniform</p> <p>c) First non - uniform then uniform</p> <p>d) Non - uniform</p>	1
72	<p>S.I unit of time is_____.</p> <p>a) Hour b) Day c) Minute d) Second</p>	1
73	<p>Average speed is equal to</p> <p>a) $\frac{\text{Distancetraveled}}{\text{hour}}$</p> <p>b) $\frac{\text{velocity}}{\text{time}}$</p> <p>c) $\frac{\text{Totalspeed}}{\text{totaltime}}$</p> <p>d) $\frac{\text{Totaldistancetraveled}}{\text{totaltimetaken}}$</p>	1
74	<p>The state of rest or motion is always compared with:</p> <p>a) Position of the body in the vehicle</p>	1

92	Bastar is in _____ a) Assam b) Uttar Pradesh c) Bihar d) Madhya Pradesh	1
93	Salbahan was the: a) Hunas Rajput raja of Mahoba b) Cholas Rajput raja of Mahoba c) Chandel Rajput raja of Mahoba d) Chalukyas Rajput raja of Mahoba	1
94	Kabui tribe live in which of the following state? a) Arunachal Pradesh b) Manipur c) Meghalaya d) Assam	1
95	Tsunami is a _____. a) French word b) Indian word c) Chinese word d) Japanese word	1
96	The water of the earth closer to the moon gets pulled under the influence of the moon's gravitational force and causes _____. a) high tide b) small tide c) low tide d) long tide	1
97	The rhythmic rise and fall of ocean water twice in a day is called a a) Current b) Wind c) Wave d) Tide	1
98	The Dead Sea in Israel has a salinity of 33.7 parts per thousand. Swimmers can float in it because a) the increased salt content makes it dense b) the decrease salt content makes it dense c) the increased salt content makes it lighter d) the decreased salt content makes it lighter	1
99	What is the percentage of fresh water? a) 2.3 b) 2.8 c) 2.5 d) 2.7	1
100	When the water on the surface of the ocean rises and falls alternately, they are called _____. a) air b) evaporation c) wind d) waves	1

101	Common salt that we mostly eat: a) Nitrogen Chloride c) Sodium Oxide	b) Sodium Chloride d) Hydrogen Chloride	1
102	How waves are differ from tides? a) Waves occurs 10 hours a day while tides occur thrice times a day b) Waves occur 10 hours a day while tides occur two times a day c) Waves occur 24 hours a day while tides occur two times a day d) Waves occurs 24 hours a day while tides occur thrice times a day		1
103	Water bodies contain salty water are a) Glaciers and Sea c) Ponds and Rivers	b) Ocean and Sea d) Ponds and Sea	1
104	Dead sea is in _____. a) Turkey b) Lebanon	c) Egypt d) Israel	1
105	Tsunami is a Japanese word that means “Harbour waves”. Why this name is given to tsunami? a) Roads get destroyed whenever there is a tsunami b) Ships get destroyed whenever there is a tsunami c) Harbours get destroyed whenever there is a tsunami d) Buildings get destroyed whenever there is a tsunami		1
106	The average salinity of the oceans is _____. a) 65 parts per thousand b) 55 parts per thousand c) 45 parts per thousand d) 35 parts per thousand		1
107	Warm ocean currents originate near a) Tropic of Capricorn b) Equator	c) Pole d) Tropic of cancer	1

108	Government body responding for developing, regulating, and sending out information: a) Ministry of Information and Broadcasting b) Ministry of Information and Advertising c) Ministry of Information and Publishing d) Ministry of Information and Campaign	1
109	Most of the cartoons that you see on television are mostly from: a) China or the United States b) Japan or the United State c) Japan or Pakistan d) China or Pakistan	1
110	Why are most newspapers not able to provide a balanced story before readers? a) Most media want to save time b) Most media want to cover only a short story c) Most media are controlled by writers d) Most media are controlled by big business houses	1
111	Who invented television? a) John M. Naird b) John B. Laird c) John L. Baird d) John S. Saird	1
112	The cost of bringing out a quarter - page color advertisement in a leading newspaper. a) 8.36 lakh b) 1.65 lakh c) 30.36 lakh d) 180 crore	1
113	This refers to the power to change what someone believes or does. a) To motivate b) To influence c) To consists d) To power	1
114	What is the telecast rate for a 30 seconds advertisement on a major TV channel? a) 1.80 lakh b) 1.56 lakh c) 1.65 lakh d) 1.35 crore	1
115	Coast of Florida is in the _____.	1

