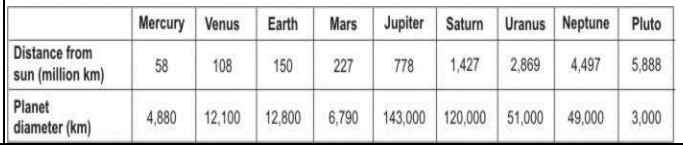
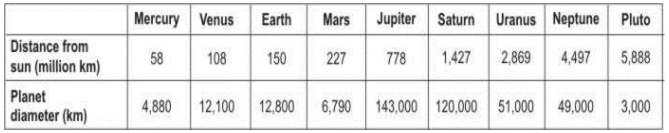
QUESTION PAPER
SET- 20
SUBJECT : SCIENCE
GRADE : 6

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
1.	3_15 3501	Motion and measurement of distances	Some students conduct an experiment to find out how long different rubber balls would keep bouncing before they stop, when dropped from a fixed height. Which unit would be the most suitable for measuring the results of their experiment?		D

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
hours	kilograms	metres	Seconds

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
2.	4_24 10223	**Motion and measurement of distances**	Identify the planet that is closest to the earth.	Use the information about the Solar System given below and answer the question. 	B

	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto
Distance from sun (million km)	58	108	150	227	778	1,427	2,869	4,497	5,888
Planet diameter (km)	4,880	12,100	12,800	6,790	143,000	120,000	51,000	49,000	3,000

		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
		Mercury	Venus	Mars	Jupiter
S.N	**Folder Number & Question Code**	**Topic**	**Question With Answers Options**	**Image (If Any)**	**Correct Answer (Option – A, B, C, D)**
3.	4_24 10224	**Motion and measurement of distances**	How many planets have a larger diameter than that of the earth?	Use the information about the Solar System given below and answer the question. 	C

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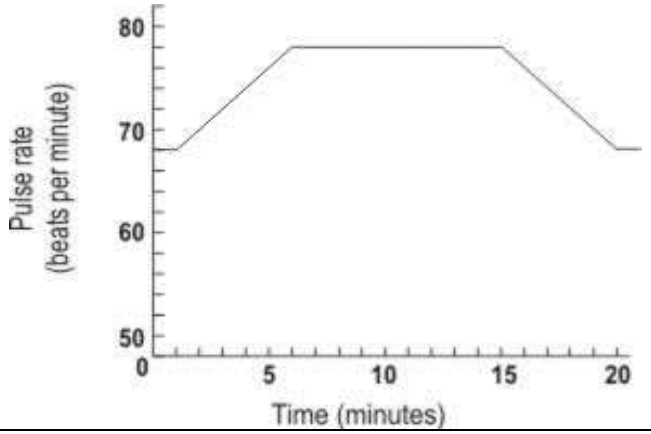
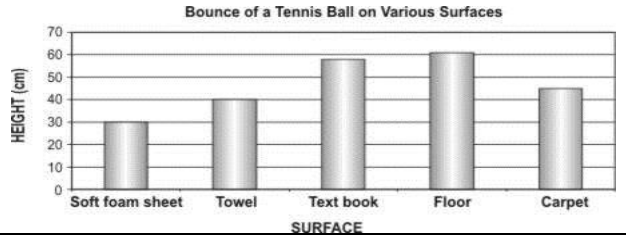
		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
		2	3	4	5
S.N	**Folder Number & Question Code**	**Topic**	**Question With Answers Options**	**Image (If Any)**	**Correct Answer (Option – A, B, C, D)**

4.	4_24 10225	**Motion and measurement of distances**	Devpal rides a bicycle for 15 minutes and then stops. The graph below shows how his pulse changes as he cycles. After he stops cycling, how many minutes does it take his pulse rate to come back to normal?		A

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
5 minutes	10 minutes	15 minutes	20 minutes

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
5.	4_24 10230	**Motion and measurement of distances**	Which of the following tables best represents the information given in the graph?	Saroja and Ali dropped the same tennis ball from a height of 1 metre on various surfaces and measured how high it bounced each time. Study the graph they made and answer the question. 	C

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<tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr>
<tr>
<td>
<table>
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<tr><td>Soft foam sheet</td><td>30</td></tr>
<tr><td>Towel</td><td>40</td></tr>
<tr><td>Text book</td><td>45</td></tr>
<tr><td>Floor</td><td>58</td></tr>
<tr><td>Carpet</td><td>61</td></tr>
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<tr><td>Towel</td><td>40</td></tr>
<tr><td>Text book</td><td>50</td></tr>
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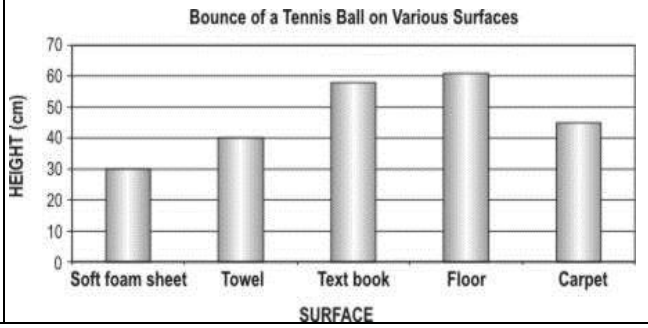
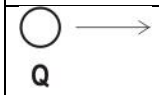
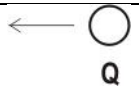
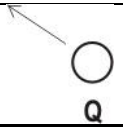
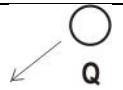
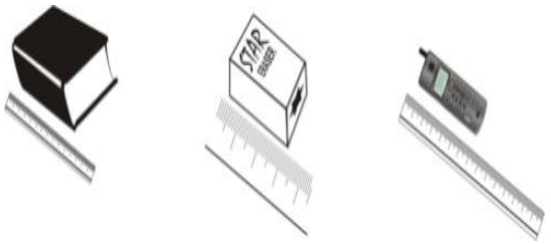
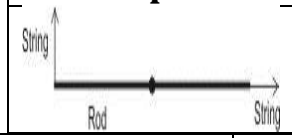
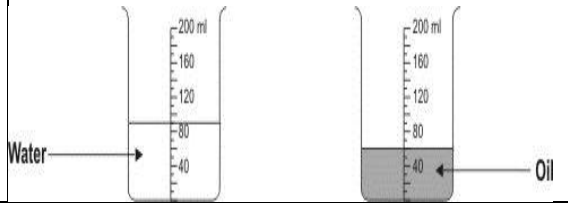
<tr><td>6.</td><td>4_24
10231</td><td>Motion and measurement of distances</td><td>Which of these can be concluded from the information IN THIS GRAPH?</td><td>Saroja and Ali dropped the same tennis ball from a height of 1 meter on various surfaces and measured how high it bounced each time. Study the graph they made and answer the question.
 
</td><td>B</td></tr>
<tr><td></td><td></td><td colspan="4">
<table>
<tr><th colspan="4">Answer Options</th></tr>
<tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr>
<tr><td>the bounce depends on the height from which the ball is dropped.</td><td>the bounce is likely to be different for different surfaces.</td><td>the bounce depends on the type of ball that is dropped.</td><td>the bounce does not depend on the type of ball that is dropped.</td></tr>
</table>
</td></tr>
</table>

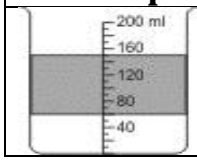
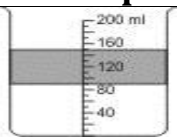
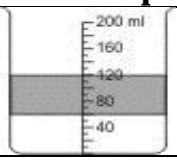
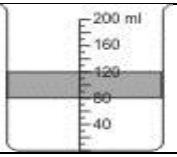
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
7.	3_15 3526	Motion and measurement of distances.	Ball P was moving in the direction shown. After some time it collided with ball Q. The position and direction of motion of ball P after some time is shown below. Which of these could have been the direction of motion of ball Q before the collision?		C

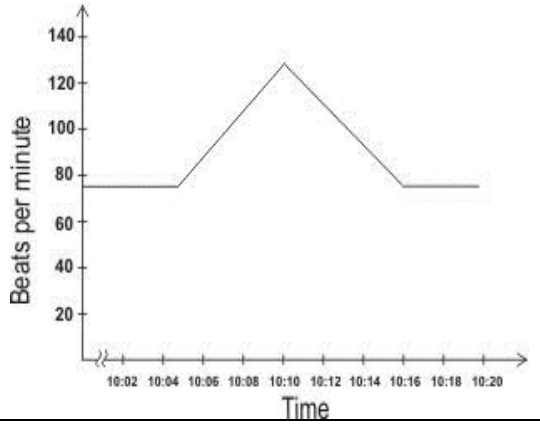
Answer Options

Option A	Option B	Option C	Option D
			

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
8.	3_15 3528	Motion and measurement of distances.	Here are images of three objects. The ruler shown in each image IS THE SAME. Which object is the longest?		A

		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
		the book	the eraser	the mobile	all are of the same length
S.N	**Folder Number & Question Code**	**Topic**	**Question With Answers Options**	**Image (If Any)**	**Correct Answer (Option – A, B, C, D)**
9.	4_25 11831	MOTION AND MEASUREMENT OF DISTANCES	A rod can turn around the pin at its centre. Two strings are hooked to the rod. Mitul and Kirti pull on the strings with equal force in the directions shown. In which case will they make the rod turn?		B
		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
					
S.N	**Folder Number & Question Code**	**Topic**	**Question With Answers Options**	**Image (If Any)**	**Correct Answer (Option – A, B, C, D)**
10.	4_25 11834	MOTION AND MEASUREMENT OF DISTANCES	There are two beakers containing oil and water as shown below. Oil floats on water and does not mix with it. If all the water from the first beaker is poured into the beaker of oil, what will be the level in the second beaker?		B

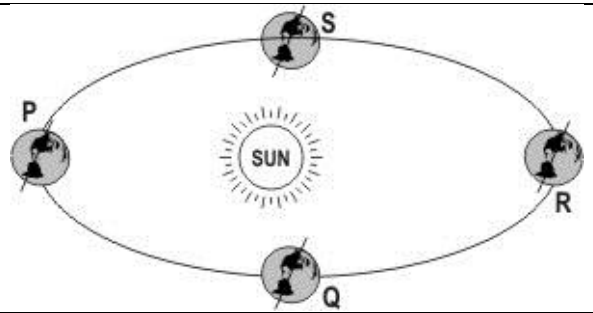
Answer Options			
Option A	**Option B**	**Option C**	**Option D**
			

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
11.	4_25 11836	MOTION AND MEASUREMENT OF DISTANCES	The graph shows Ashok's heartbeat during the period 10:02 a.m. to 10:20 a.m. How did his heartbeat change between10:10 and 10:16?		C

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
It increased and then decreased.	It increased at a uniform pace.	It decreased at a uniform pace.	It stayed constant.

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
12.	4_25 11925	Motion and measurement of distances	If the earth was to rotate at twice its present rate of rotation, which of these changes is likely to be observed?		A

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
There will be 2 days and 2 nights within 24 hours.	There will be only 1 day OR 1 night in 24 hours.	The 24 hour duration of the day-night cycle will not change.	The duration of each day will be 18 hours and night 6 hours.

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
13.	4_25 11926	Motion and measurement of distances	What would be the season in New Delhi when the position of the earth is at R as shown in the figure?		B

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Summer	Winter	Rainy Season	Spring

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
14.	3_16 2376	Motion and measurement of distances	A measuring cylinder can be used to measure the volume of a stone. This can be done in the six steps given below. These are not put in the correct order. 1.Lower the stone with the help of a thread slowly into the cylinder. 2.Calculate the difference in the two readings. 3.Read the scale. 4.Fill the cylinder with water to the required level. 5.Take the new reading. 6.Make sure the stone is fully submerged and water does not overflow. What is the correct order of these steps to measure the volume of the stone?		A

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
4, 3, 1, 6, 5, 2	1, 6, 3, 4, 2, 5	5, 1, 2, 4, 3, 6	3, 4, 5, 2, 1, 6

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)

15.	3_16 2379	Motion and measurement of distances	If 10,00,00I0 μg is 1 gram, about how many MILLIGRAMS of SPM would there be in 1m³ of air in Colaba in Mumbai	Study this table containing pollution data about various Indian cities on a particular day and answer the question. CITY | Suspended Particulate Matter SPM ($\mu g/m^3$) | Gas Pollution: SO_2 ($\mu g/m^3$), NO_2 ($\mu g/m^3$) **Ahmedabad** (Ashram Road) | 140 | 1 | 19 **Bangalore** (J.C. Road) | 205 | 5 | 23 **Chandigarh** (Sector 7) | 265 | 17 | 25 **Chennai** (T. Nagar) | 270 | 10 | 6 **Delhi** (Lajpat Nagar) | 413 | 7 | 24 **Guwahati** (Silpukhuri) | 114 | 13 | 27 **Hyderabad** (Sr. Nagar) | 232 | 6 | 29 **Kolkata** (Shyam Bazar) | 146 | 6 | 38 **Lucknow** (Dalibagh) | 357 | 10 | 22 **Mumbai** (Colaba) | 291 | 9 | 21	A

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
0.291	2.91	291	2910