


**CBT CLASS VI**  
**FEBRUARY 2024**  
**ANSWER KEY AND FEEDBACK**

	<b>SUBJECT - MATHEMATICS</b>			
	<b>SYLLABUS- 1. ALGEBRA 2. RATIO AND PROPORTION</b>			
<b>QNO.</b>	<b>QUESTION</b>	<b>OPTIONS PROVIDED</b>	<b>CORRECT OPTION</b>	<b>EXPLANATION</b>
1.	1. The branch of mathematics in which we study the use of letters is	A. Geometry B. Statistics C. Arithmetic D. algebra	D	Feedback- The branch of mathematics in which we study the use of letters is algebra
2..	2. The number of matchsticks required to make a pattern of letter Y as shown below.  	A.n B. 3n C. n + 1 D. none of these	B	Feedback-The number of matchsticks required to make a pattern of letter Y is 3n
3.	3. Observe the patterns and find the rule that gives the number of matchsticks in terms	a. 2n	C	Feedback-rule that gives the number of matchsticks in

	<p>of the number of squares.</p>	<p>b. <math>3n</math> c. <math>3n + 1</math> d. <math>2n + 1</math></p>		<p>terms of the number of squares. Is <math>3n + 1</math></p>
4.	<p>4. The letters used in algebra are called</p>	<p>a. Patterns b. Constants c. Variables d. none of these</p>	c	<p>Feedback- The letters used in algebra are called variables</p>
5.	<p>5. Leela is Radha's younger sister. Leela is 4 years younger than Radha. Can you write Leela's age in terms of Radha's age? Take Radha's age to be <math>x</math> years.</p>	<p>a. <math>x + 4</math> b. <math>x - 4</math> c. <math>x / 4</math> d. <math>4x</math></p>	b	<p>Feedback- Radha's age to be <math>x</math> years.  Leela is 4 years younger than Radha. Hence Leela's age will be <math>x - 4</math></p>
6.	<p>If we compare two quantities in terms of 'how many times'. This comparison is known as the</p>	<p>a. Ratio b. Proportion c. Unitary method d. none of these</p>	a	<p>Feedback- If we compare two quantities in terms of 'how many times'. This comparison is known as the ratio</p>
7.	<p>There are 20 girls and 15 boys in a class. What is the ratio of number of girls to the number of boys?</p>	<p>a. <math>2 : 3</math> b. <math>3 : 5</math> c. <math>5 : 4</math> d. <math>4 : 3</math></p>	d	<p>Feedback-the ratio of number of girls to the number of boys = <math>20/15 = 4/3 = 4 : 3</math></p>
8.	<p>Divide ` 60 in the ratio <math>1 : 2</math> between Kriti and Kiran.</p>	<p>a. Kriti's share = ₹ 10 &amp; Kiran's share = ₹ 50 b. Kriti's share = ₹ 30 &amp; Kiran's share = ₹ 30 c. Kriti's share = ₹ 40 &amp; Kiran's share = ₹ 20 d. Kriti's share = ₹ 20 &amp;</p>	d	<p>Feedback-<math>60/3 = 20</math> Hence kriti=<math>1 \times 20 = 20</math> kiran= <math>2 \times 20 = 40</math> Kriti's share = ₹ 20 &amp; Kiran's share = ₹ 40</p>

		Kiran's share = ₹ 40		
9.	. Are 30, 40, 45 and 60 in proportion?	a. No b. 50 - 50 c. Yes d. Can't say	c	Feedback-yes because $30/40=3/4$ $45/60=3/4$
10.	If the cost of 6 cans of juice is ₹ 210, then what will be the cost of 4 cans of juice?	a. ₹ 110 b. ₹ 120 c. ₹ 130 d. ₹ 140	d	Feedback- $210/6=35$ $=35 \times 4=140$
		<b>SOCIAL SCIENCE</b>		
	<b>SYLLABUS-1. NEW EMPIRES AND KINGDOMS</b> <b>2-BUILDINGS PAINTINGS AND BOOKS</b> <b>3-URBAN LIVELIHOOD</b>			
11.	Purana literally mean	(a)Modern (b) Old (c) Civilised (d) New	b	Feedback-Purana literally means old
12.	What is height of Iron pillar.....	(a) 8.2 Mts b) 7.2 mts c)9.2 mts d)8.5mts	b	Feedback-The height of iron pillar is 7.2 m
13	Who was Aryabhata?	(a) Mathematician b) Zoologist C) Archaeologist d) None of these	c	Feedback-Aryabhata was a great Mathematician in ancient India
14.	Who was the best ruler of Chalukyas?	(a) Pulakeshin I (b) Pulakeshin II (C) Pulakeshin III (d)Pulakeshin IV	b	Feedback-the best ruler of Chalukyas was Pulakeshin II
15.	To which language does the term "Prashasti " belong?	(a) English  (b) Hindi	c	Feedback-Prashasti " belongs to Sanskrit

		(c) Sanskrit (d) Tamil		
16.	Who wrote the biography of Harshavardhana?	(a) Surender Sharma (b) Amir Khusro (c) Banbhatta (d) None of these	c	Feedback-the biography of Harshavardhana is written by Banbhatta
17.	Who was the famous ruler of a dynasty known as Guptas?	(a) Chandragupta (b) Samudragupta (c) Ashoka (d) Sidhartha	b	Feedback- the famous ruler of a dynasty known as Guptas was Samudragupta
18.	Who is Bachchu Manjhi?	(a) Engineer (b) Dentist (c) Rickshaw-puller (d) Teacher	c	Feedback- Bachchu Manjh is Rickshaw-puller
19.	The shopkeepers are given a licence by	(a) State government (b) Municipal Corporation (c) Central Government (d) Court	b	Feedback- The shopkeepers are given a licence byMunicipal Corporation
20.	Urban Area is related to.....	a)Village b)Town c)Cities d) b And c	d	Feedback-Urban Area is related toTown and Cities
<b>SCIENCE</b>				-
<b>SYLLABUS- AIR AROUND US</b>				
21.	Which of the following statements is incorrect?	a. All living things require air to breathe. b. We can feel air but we cannot see it. c. Air is present everywhere but not in soil. d. Moving air makes it possible to fly a kite.	c	Feedback-Air is present everywhere but not in soil. is incorrect. Air is present everywhere
22.	Wind does not help in the movement of which of the	a. Firki b. Weather cock	c	Feedback-Electricity moves

	following	c. Ceiling fan d. Sailing yacht		the ceiling fan
23.	Mountaineers carry oxygen cylinders with them because	a. there is no oxygen on high mountains. b. there is deficiency of oxygen on mountains at high altitude. c. oxygen is used for cooking. d. oxygen keeps them warm at low temperature.	b	Feedback- there is deficiency of oxygen on mountains at high altitude.and pressure is also less
24.	Boojho took an empty plastic bottle, turned it upside down and dipped its open mouth into a bucket filled with water. He then tightened the bottle slightly and made the following observations.	a. Bubbles of air came out from the bottle. b. Water does not enter in the bottle. c. Nitrogen gas came out in the form of bubbles and oxygen got dissolved in water. d. No bubbles formed, only water entered the bottle.	a	Feedback-Bubbles of air came out from the bottle because air comes from down to up side because of pressure
25.	Which of the following components of air is present in the largest amount in the atmosphere?	a. Oxygen b. Nitrogen c. carbon dioxide d. Helium	b	Feedback- Nitrogen constitutes 78% of the atmospheric air and it is essential for the growth of plants.
26.	Which is not a property of air?	a. It occupies space. b. It is transparent, c. It is a solution. d. It is a compound.	d	Feedback- air is a mixture.
27.	Which of the following gas we use in breathing?	a. Carbon dioxide b. Nitrogen c. Oxygen d. None of these	c	Feedback- We inhale oxygen in breathing .

28.	The components of air which are harmful to living beings are	<ul style="list-style-type: none"> <li>a. nitrogen and carbon dioxide.</li> <li>b. dust and water vapour.</li> <li>c. dust and smoke.</li> <li>d. smoke and water vapour.</li> </ul>	<b>c</b>	Feedback- dust and smoke. Are the cause of many diseases like cancer, asthma etc
29.	Usha took a lump of dry soil in a glass and added water to it till it was completely immersed. She observed bubbles coming out. The bubbles contain	<ul style="list-style-type: none"> <li>a. water vapour</li> <li>b. only oxygen gas</li> <li>c. Air</li> <li>d. none of these</li> </ul>	<b>c</b>	Feedback-The bubbles contain air
30.	Envelope of air that surrounds the earth is known as	<ul style="list-style-type: none"> <li>a. Biosphere</li> <li>b. Atmosphere</li> <li>c. Environment</li> <li>d. ecosystem</li> </ul>	<b>b</b>	Feedback-The atmosphere is a mixture of gases that surrounds the Earth