## CCE Calendar for 2012-13
### CLASS VII – MATHEMATICS
#### Term- I (April to September)

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<td>Ch. 1: Integers&lt;br&gt;Ch. 5: Lines and angles</td>
<td>Drawing Activity, quiz and puzzles</td>
<td>Drawing skill, Reasoning skill and Application skill</td>
<td>Neatness, logical reasoning, accuracy.</td>
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<td>Lines and Angles continued…</td>
<td>Notebook assessment</td>
<td>CW/HW maintenance</td>
<td>Regularity&lt;br&gt;Presentation&lt;br&gt;Neatness&lt;br&gt;Index/date, correctness</td>
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<td>Ch.2: Fractions &amp; Decimals</td>
<td>Paper cutting and pasting activity</td>
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<td>Ch.3: Data handling</td>
<td>Lab activity</td>
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### Ch.4: Simple equations

- **Puzzle Project**
- **Analytical Skill**
  - Interpretation,
  - Drawing conclusion
  - Logical and rational thinking
  - Originality, Creativity,
  - Understanding of concept,
  - Presentation, Relevance

### Ch.6: Triangles and its properties

- **Revision**
- **Activity**
- **Drawing Skill**
- Individual written Test based on knowledge, reasoning, application and skill
  - Concept
  - Neatness
  - Accuracy

### Ch.10: Practical geometry

- **Revision**
- **Notebook assessment**
  - CW/HW maintenance
  - Regularity
  - Presentation

### Term-II (October to March)

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<td>Paper cutting and pasting activity</td>
<td>Experimental verification, participation</td>
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<td>Ch.8</td>
<td>Comparison of quantities</td>
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<td>Ch.11</td>
<td>Perimeter &amp; Area</td>
<td>Project, field work, Identification and drawing/Presentation</td>
<td>Measuring skill, Application of formulae, Visualizing, reasoning skill</td>
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<td>Ch.14</td>
<td>Symmetry</td>
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<td>Creativity, Originality, Presentation, Content relevance, Interpretation</td>
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<tr>
<td>Revision</td>
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<td>Written Test based on knowledge, reasoning, application and skills</td>
<td>FA III 10, FA IV 10, SA II 40, TOTAL 60</td>
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</table>
1. Which of the following pairs of angles form a pair of supplementary angles?

(a) 59° and 250°  
(b) 145° and 215°  
(c) 125° and 55°  
(d) 45° and 45°

2. A triangle whose sides are of length 30 cm, 50 cm, and 40 cm is a

(a) right angled triangle  
(b) equilateral angled triangle  
(c) acute angled triangle  
(d) obtuse angle triangle

3. Which of the letter has horizontal as well as vertical line of symmetry

A  B  H  S

4. Perimeter of the box is

(a) 26  
(b) 14  
(c) 12  
(d) 24

5. What is the area of circle when circumference is 44 cm
6. Find the unknown values

7. Draw a sketch of an equilateral triangle, an isosceles triangle

8. In given rectangle ABCD prove that triangle ABD is equal to triangle CDB


10. Find the order of rotational symmetry about the center of rotation O.

11. Find the altitude of triangle whose area is 85 cm\(^2\) and base is 15.2 cm.

12. From a square cardboard of area 196 cm\(^2\), a circle with biggest possible area is cut out. Find the area of remaining cardboard.

13. Count the number of cubes
14. a) Find the median of the numbers
3,5,1,6,8,10,3,4,5,9,12

b) Appu drives his car 50 km towards East and then drives 45 km towards North. How far is he from the starting point?

15. What is the probability of choosing letter O from CORRUPTION?

16. Construct a triangle PQR where QR = 4.2 cm, angle Q = 130°, R = 40°, measure P. What kind of triangle is this?

17. Construct a triangle XYZ with XY = 9 cm angle X = 80° and Y = 65°

18. Each wheel of bicycle has a radius of 70 cm. How many complete revolutions does each wheel make to cover a distance of 2 km 520 m?

19. Read the bar graph and answer the following

(a) who spent the least amount of money on books

(b) who spent Rs 550

© Find the fraction for the money spent by Nitin to the money spent by Tina
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<tr>
<th>TOPICS TO BE COVERED</th>
<th>MODE OF ASSESSMENT</th>
<th>COMPETENCIES/ SKILLS/CONCEPTS TO BE ASSESSED</th>
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<td><strong>Nutrition in animals</strong></td>
<td>1. Observation of different types of teeth and identification.</td>
<td>1. Observation, recording and drawing skill.</td>
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<td>2. To prepare a chart on digestive system-group work</td>
<td>2. Motor skills, spatial skill</td>
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<td>3. Cross word puzzle-work sheet</td>
<td>3. Recall, application, mental alertness</td>
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<td>4. Jig-saw puzzle</td>
<td>4. Mental alertness and speed</td>
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<tr>
<td><strong>Fibre to fabric</strong></td>
<td>1. Crossword puzzle</td>
<td>1. Application, recall, mental alertness</td>
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<td>2. Visit to sericulture</td>
<td>2. Collection of data analysis, interpretation, conversational skill.</td>
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<td>3. Ppt. on extraction of silk fibre and wool fibre</td>
<td>3. Understands events taking place, helps to indicate different ways of thinking.</td>
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<td><strong>Heat</strong></td>
<td>1. Individual activity involving reading of temperature with the help of thermometer.</td>
<td>1. Inquisitiveness, observation, recording, analyzing, inferring.</td>
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<td>2. Conduction, convection and radiation activities</td>
<td>2. Application, drawing conclusions, scientific skills.</td>
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<td>3. Group discussion</td>
<td>3. Active participation, observation, leadership skill, communication skill.</td>
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</table>
| Acids, bases and salts | 1. MCQ (practical based)  
2. Activity – individual  
3. Group discussions on neutralization in everyday life.  
4. Find out the nature of the soil using pH paper | 1. Interpretation, testing practical skills.  
2. Confident, observation, drawing conclusions.  
3. Active participation, communication skill, listening skill, critical thinking.  
4. Observation drawing conclusions |
|---|---|---|
| Physical and chemical changes | 1. Individual activity – lime water turns milky  
2. Group activity  
3. Collect the information about the types of fuels used for cooking | 1. Observation, recording, inferring, drawing conclusions.  
2. Team spirit, peer related behaviour, social life skill.  
3. Collaborative skill |
| Weather climate and adaptation of animals to Climate | 1. Collection of weather reports from news paper.  
2. Graph showing variation of maximum temperature during 12 August to 20th August.  
3. Flow chart on adaptation of penguin/polar bear.  
1. Model of anemometer – group | 1. Data collection, interpretation  
2. Critical thinking  
3. Spatial skill, learner’s abilities and thoughts.  
4. Data collection, interpretation.  
1. Motor skills, practical application skills, |
| *Wind, storms and cyclones* | activity  
2. Collect articles and photographs from newspapers and magazines about storms and cyclones.  
3. Quiz | opportunity to work in group.  
2. Data collection, analyse, organizes and interprets and draws generalization.  
3. Conceptualisation, application, mental alertness, speed. |
|---|---|---|
| *Soil* | 1. Visit to a construction site and observe the soil profile and rooting pattern of plants.  
2. To find the moisture content of a soil sample.  
3. Crossword puzzle | 1. Observational skill, active participation to provide an opportunity to relate and synthesize within and outside classroom learning.  
2. Inquisitiveness, observation, recording, drawing conclusions.  
3. Mental alertness, recall |
| *Respiration in organisms* | 1. Individual activity on changes in breathing  
2. Effect of breathing on chest size.  
3. Model to show mechanism of breathing  
4. MCQ  
5. Crossword puzzle.  
6. Observation of fishes in the aquarium  
3. Motor skills, logical, coordination, practical application skill.  
5. Mental alertness, recall, application.  
6. Observational skills, interpretation.  
7. Information gathering, analyzing, correlates to real life. |
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<th>Topic</th>
<th>Activities</th>
<th>Benefits</th>
<th>Skills</th>
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</table>
| *Transportation in animals and plants | harmful effects of smoking.  
1. Model of stethoscope  
2. Group Activity on osmosis  
2. Develop positive attitude towards group work, Share & learn from each other  
3. Active participation, learning and assessing. | 1. Interpretation, testing practical skills.  
2. Organising, deductive reasoning, analyzing.  
3. Opportunity to search for information construct their own ideas and articulate the same ideas through spoken, written or visual expressions.  
4. Observational skill, drawing and recording skill.  
5. Observation & appreciation of nature, opportunity to explore, work with one’s hand. |
| *Reproduction in plants        | 1. MCQ  
2. Collect vegetative parts of the plant-rose, ginger, potato, bryophyllum and grow them.  
3. Observation of permanent slides.  
4. Observation of pollen, ovary with dissection microscope.  
2. Develop positive attitude towards group work, Share & learn from each other  
3. Active participation, learning and assessing. | 1. Interpretation, testing practical skills.  
2. Organising, deductive reasoning, analyzing.  
3. Opportunity to search for information construct their own ideas and articulate the same ideas through spoken, written or visual expressions.  
4. Observational skill, drawing and recording skill.  
5. Observation & appreciation of nature, opportunity to explore, work with one’s hand. |
| *Motion and time              | 1. Oral question  
2. Plotting a graph on distance-time  
3. Group activity - to calculate the time period of a simple pendulum. | 1. Recall, recollect and understand.  
2. Critical thinking.  
3. Provide an opportunity to work in groups, | 1. Recall, recollect and understand.  
2. Critical thinking.  
3. Provide an opportunity to work in groups, |
1. Activity to check how steady our hand is.  
2. To make a simple electric circuit  
3. Use of CFL’s in today’s scenario-seminar.  
4. Inspect the meter box fitted with fuses/MCB  
5. Working model of a railway signal  
| Light  
1. Properties of light-individual activity  
2. Reflection of light from a mirror using torch  
3. Observe the letters of English alphabets using a plane mirror  
4. Model of Newton’s colour disc.  
5. Visit to a laughing gallery in some science centre to see distorted and funny image  
6. Observation of size, position and nature of image formation by | 4. Motor skill, practical application skill.  
1. Inquisitiveness, observation, analyzing, & inferring.  
2. Motor skills, practical application skill.  
3. Good communication skills, leadership quality, innovative, scientific achievement.  
4. Observational skill, understanding, logical thinking.  
5. Motor skills, creativity.  
6. To work with one’s hand, observe and draw conclusion.  
1. Understanding, logical thinking.  
2. Explore, observe, interpret data, draw generalizations.  
3. Observational skill, reasoning, analyzing, co relating to real life  
4. Practical application skill, motor skill.  
5. Collaborative skills.  
6. Critical thinking. |
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<th>Water</th>
<th>*Forests – our life line</th>
<th>*Waste water story</th>
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<td>convex lens</td>
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<td>1. Documentation of learners experience, actual recall of events. Provides insight into emotional, social &amp; psychological aspects. Exhibits creativity, originality. 2. Understands events taking place helps to indicate different ways of thinking. Creates awareness. 3. Recall, application, mental alertness. 4. Critical thinking, analyzing, interpreting, decision making, collaborative skills. 5. Holistic approach, opportunity for exploring child’s abilities.</td>
<td>1. Fluent presentation with appropriate gestures. 2. Motor skills, Provides insight into social, emotional &amp; psychological aspects. 3. Collection of data and recording. 4. Documentation of learners experience</td>
<td>1. Recall, application, mental alertness. 2. Accuracy, coordination, presentation, critical thinking, collaborative skill. 3. Inquisitiveness, observation, recording.</td>
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</table>
4. Collect information about sewage disposal system in your neighborhood.
4. Data collection.

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<th>analyzing, inferring, applying, hypothesizing, drawing conclusions.</th>
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<td>FA III</td>
<td>10</td>
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<tr>
<td>FA IV</td>
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<tr>
<td>SA II</td>
<td>40</td>
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<td>TOTAL</td>
<td>60</td>
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</table>
General Instructions:
All questions are compulsory
Questions 1 to 5 are multiple choice questions and carry 1 mark each. Choose the appropriate option and write the answer in the answer sheet.
Question 6 to 10 carry 1 mark each and must be answered in 1 or 2 sentences.
Questions 11 to 19 carry 2 marks each and must be answered in 2 or 3 sentences.
Questions 20 to 23 carry 3 marks each and must be answered in 5 or 6 sentences each.
Question 24 carries 5 marks and must be answered in 7 or 8 sentences each.

1. Growing tress along the roadside will
   (a) Hold on soil on the sides of the road.
   (b) Make travel along the roads safer.
   (c) Keep the temperature along the roads much higher.
   (d) Keep wildlife away from the roads.

2. Which of these is not a modification for reproduction?
   (a) Potato tuber
   (b) Rhizome
   (c) Runner
   (d) Prop root

3. The speed of a moving object means
   (a) How far it goes.
   (b) How long it goes on moving.
   (c) How far it goes in a certain time.
   (d) None of these.
4. An incident ray strikes a plane mirror at an angle of 15° with the mirror. The angle between the reflected ray and the incident ray is
   (a) 15°
   (b) 30°
   (c) 150°
   (d) 140°

5. Which of these is a salt that does not cause hardness in water
   (a) Na₂SO₄
   (b) Ca(HCO₃)₂
   (c) CaSO₄
   (d) MgSO₄

6. Define fertilization.

7. Name one disease spread through blood transfusion.

8. Write one importance of soil bacteria.

9. Why is the starting point of a food chain always a plant?

10. Only ________ percentage of natural water is available for human consumption.

11. State the laws of reflection.

12. Draw a circuit diagram showing a collection of six cells connected with three bulbs which in turn are connected in a parallel circuit with each other. Each bulb has its own switch.

   Show the arrangement in such a way that one bulb glows and the other two do not.

13. An athlete covers 1500 m in 4 minutes. Calculate his speed in m/s and km/hr.

14. Define excretion. Name the different excretory organs of the human body.

15. Distinguish between physical and chemical weathering.

16. Explain the following terms: sewage, sludge.
17. Which of the following statements are true? Rewrite the false statements after correction.
   (a) Water which looks clean and sparkling is suitable for drinking.
   (b) Soap lather well in soft water.
   (c) Sodium sulphate is one of the substances which cause hardness in water.
   (d) Rainwater, as it falls, is always pure.

18. Which mirror would be better on your cycle: convex or concave? Explain.

19. What are the functions of the following: heart, kidney?

20. Draw a neat diagram of a section of a flower, naming and labelling parts showing the following functions.
   (a) Landing place for pollen grains.
   (b) Contains eggs.
   (c) Male part that produces pollen.
   (d) Grows into a fruit.
   (e) Protects flower in the bud state.
   (f) Brightly coloured part that attracts insects.

21. Name the different types of cells found in blood. Give one function of each.

22. Which are the best soil types for growing plants and why?

23. Both a mirror and a page of this book reflect light. You can see an image in a mirror but not in the book. Explain.

24. Answer each of the following briefly.
   (a) Why is it not good to wash clothes in hard water?
   (b) In what ways could the natural water cycle be affected if large forests are cut down?
   (c) List at least four steps by which you can help to conserve water in your home.
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<td>Skit</td>
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<td>Election</td>
<td>Election of class leader through present &amp;</td>
<td>Points to be awarded based on performance of student</td>
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<td>*Our changing earth</td>
<td>Drawing/Model making</td>
<td>Landforms created by agents of denudation, Compare &amp; contrast Private &amp; public health system, Election of MLA &amp; CM, Accuracy, Neatness, Each point, Pts based on collection of points</td>
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<td>*Role of government in health</td>
<td>Group activity</td>
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<td>*How state government works</td>
<td>Group activity</td>
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<td>*Delhi sultans.</td>
<td>Flow chart</td>
<td>Dynasties and rulers of sultanate, Neatness, Preparation</td>
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<tr>
<td>*Air</td>
<td>Drawing</td>
<td>Layers of atmosphere &amp; pressure belts, Neat drawing, Labelling</td>
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<td>*Growing up as girls and boys</td>
<td>Skit</td>
<td>Experience of growing as boys &amp; girls</td>
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<td>*Women change the world</td>
<td>Project</td>
<td>Biography of any successful woman</td>
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<td>*Mughal empire</td>
<td>Display board (group activity)</td>
<td>Depicting Mughal architecture/ Mughal emperors</td>
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<tr>
<td>*Water</td>
<td>Drawing</td>
<td>Water cycle</td>
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<td>REVISION</td>
<td>Collage</td>
<td>Water scarcity</td>
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<td>*Understanding media</td>
<td>Wall paper project</td>
<td>Compare &amp; contrast news item on the same issue</td>
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<tr>
<td>Topic</td>
<td>Method</td>
<td>Activity</td>
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<tr>
<td>*Rulers and buildings</td>
<td>Comparative study</td>
<td>South &amp; north Indian temples</td>
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<td>*Natural vegetation and wildlife</td>
<td>Collage</td>
<td>Prepare a chart of natural vegetation and wildlife</td>
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<td>*Understanding advertising</td>
<td>Out of box thinking</td>
<td>Values through ads</td>
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<td>*Towns, traders and crafts persons</td>
<td>Map</td>
<td>Trade centers</td>
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<td>*Tribes, nomads and settled communities</td>
<td>Project</td>
<td>Collection of pictures depicting tribal life styles</td>
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<td>*Human environment: settlement, transport and communication.</td>
<td>Test</td>
<td>open book test</td>
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<td>Quiz</td>
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<td>PowerPoint presentation</td>
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<td>*Markets around us</td>
<td>Elocution</td>
<td>on &amp; transport</td>
<td>Each child Presentation Confidence Content</td>
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<tr>
<td>* Devotional paths to divine.</td>
<td>Open book test</td>
<td>Content</td>
<td>Each correct answer Location Identification Neatness</td>
</tr>
<tr>
<td>* Human environment: tropical and sub-tropical.</td>
<td>Map</td>
<td>Amazon &amp; Ganga Brahmaputra basins</td>
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<tr>
<td>*A shirt in the market.</td>
<td>Narration</td>
<td>Different stages of manufacturin g of any product</td>
<td>Presentation Content</td>
</tr>
<tr>
<td>*The making of regional cultures.</td>
<td>Pictorial chart</td>
<td>Classical dances of India</td>
<td>Preparation Pictures</td>
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<tr>
<td>* Life in the tropical grasslands.</td>
<td>Map work</td>
<td>Grasslands : prairies &amp;</td>
<td>Location Identification Neatness</td>
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<td>Struggle for equality.</td>
<td>Discussion</td>
<td>veld</td>
<td>Content</td>
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<tr>
<td>18th century political formation</td>
<td>Quiz</td>
<td>Constitution &amp; equality</td>
<td>Presentation</td>
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<tr>
<td>Life in desert</td>
<td>Map</td>
<td>Co-operation &amp; coordination</td>
<td>Co-operation &amp; coordination</td>
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<td>REVISION</td>
<td>Group discussion</td>
<td>Content</td>
<td>Each correct answer</td>
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<td>Emergence of new powers</td>
<td>Location</td>
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<td>Hot &amp; cold desert</td>
<td>Identification</td>
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<td>Life in hot &amp; cold desert</td>
<td>Location</td>
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<td>Identification</td>
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<td>Neatness</td>
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<td>Based on students’ performance</td>
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<td>FA III 10</td>
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<td>FA IV 10</td>
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<td>SA II 40</td>
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<td>TOTAL 60</td>
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</table>
Please note;

**Map pointing (Summative assessment)**

**History**
Chapter 2: New kings & kingdoms:
   Indraprasta,, Tanjore, Gangaikondacholapuram. Kingdoms like Chahamanas, Gurjara Pratihara, Palas, Rashtrakutas, Kalinga, Kakatiyas, Chalukyas

Chapter 6 : Towns, traders & craftpersons
   Ajmer, Calcutta, Somnath, Surat, Masulilpatnam, Hampi, Madurai, Tanjore, Bombay, Ahmadabad

Chapter 7 : Tribes, nomads & settled communities
   Kolis, Bhils, Gonds, Koyas, Khonds, Ahoms, Nagas, Mundas, Badagas, Vetars, Maravars

Chapter 10: 18th cy political formations
   Sikhs, Jats, Marathas, Rajputs

**Geography**
Chapter 5: Water
   Lakes (Victoria, Huron, Superior) Rivers (Amazon, Orange, Nile, Ganga, Hwang Ho, Mississippi) Sea (Caspian, Black, Red, Mediterranean) Cold Currents (Californea, Peru, Labrador, Oyashio, West Australian) Warm currents (Gulf stream, Alaska, Brazilian, Kuroshio)

Chapter 8: Human environment, interaction, tropical & sub tropical region
   Amazon & Ganga Brahmaputra basins

Chapter 9: Life in temperate grasslands
   Prairies in North America, Veld in Africa
Q1. The art of miniature painting as book illustrations for non-religious texts was first introduced in India by the __________.

a) Turks
b) Mughals
c) Afghans
d) All these

Q2. Which of the following rivers is not a tributary of the Ganga? __________.

a) Tapi
b) Son
c) Kosi
d) Gandak

Q3. The printing press introduced by Johannes Gutenberg in __________.

a) 1453
b) 1543
c) 1354
d) 1456
Q4. Most of the thirteenth century towns are described as ________ in sources.
   a) Iqta headquarters
   b) Temple towns
   c) Pilgrimage towns
   d) Garrison towns

Q5. The world’s biggest meat-packing centre is ____________.
   a) Detroit
   b) Denver
   c) Omaha
   d) Chicago

Q6. Newspapers are regarded as __________ media.
   a) Print
   b) Electronics
   c) Both a and b
   d) None of these

Q7. The Guru Granth Sahib is the holy scripture of the ____________.
   a) Hindus
   b) Muslims
   c) Sikh
   d) Christians

Q8. Which of the following is a mountain pass in Ladakh? ____________.
   a) Bomdi La
   b) Zoji La
   c) Nathu La
   d) Shipki La
Q9. The merchant at Aminabad get cotton yarn from ____________.
   a) Maharashtra and Kerala
   b) Haryana and Maharashtra
   c) Kerala and Tamil Nadu
   d) Maharashtra and Tamil Nadu

Q10. ___________ were defeated in the Third Battle of Panipat
   a) Mughals
   b) Marathas
   c) Rulers of Bengal
   d) British army

Q11. What do you mean by settlement?

Q12. How many types of markets are available in cities? Name them.

Q13. Who promoted East Bengal?

Q14. What are the factors that determine the type of vegetation found in a region?

Q15. Why do the media endorse advertisements?

Q16. Name any two important trading towns of the medieval period.

Q17. How are waves caused?

Q18. What is the Tawa Matsya Sangh?

Q19. Who are ulemas and amirs?

Q20. Where is the Amazon River Basin located?

Q21. Why is the independence of media important?

Q22. What do you understand about the Jagannatha cult?

Q23. Distinguish between waves and tides?

Q24. Explain a social advertisement.

Q25. Name the countries that India traded with during the medieval period. Mention important items that were imported and exported.
Q26. Describe the different patterns of rural settlements.