The actual test paper has 35 questions. Time allowed: 60 minutes. There are 3 sections:
5 questions in section I, 10 in section II and 20 in section III.

SYLLABUS

Section – I (Mental Ability) : Numerals and Number Names (4 digit Numbers), Addition, Subtraction, Fractions, Multiplication, Division, Time, Temperature, Straight and Curved Lines, Calendar, Measurement of Length, Weight and Capacity, Geometrical Shapes, Money.

Section – II (Logical and Analytical Reasoning) : Problems Based on Figures, Odd One Out, Series Completion, Coding-Decoding, Mathematical Reasoning, Analytical Reasoning, Mirror Images, Embedded Figures.

Section – III (Computers and IT) : Fundamentals of Computer, General Information about Computers, Storage Devices, Parts of Computer, Uses of Computer, Input and Output Devices, Introduction to Internet, MS-Paint, Introduction to MS-Word, Latest Developments in the field of IT.

Questions are based on Windows 7 and MS-Office 2010.

The actual test paper has 35 questions. Time allowed: 60 minutes. There are 2 sections:
10 questions in section I and 25 in section II.

SYLLABUS

Section – I (Mental Ability) : Numerals, Number Names and Number Sense (4 digit numbers), Addition, Subtraction, Fractional Numbers, Multiplication, Division, Time, Straight and Curved Lines, Calendar, Measurement of Weight and Capacity, Geometrical Shapes, Money, Patterns, Problems Based on Figures, Odd One Out, Series Completion, Coding-Decoding, Mirror Image, Embedded Figures.


The actual test paper has 35 questions. Time allowed: 60 minutes. There are 3 sections:
10 questions in section I, 15 in section II and 10 in section III.

Section – I : Logical Reasoning Section – II : Mathematical Reasoning

Section – III : Everyday Mathematics

SYLLABUS

Numerals and Number Name, Number Sense (4 digit numbers), Addition, Subtraction, Multiplication, Division, Fractions, Money, Length (conversions), Weight, Capacity, Time, Point, Problems Based on Figures, Odd One Out, Patterns, Series Completion, Coding-Decoding, Mirror Images, Embedded Figures, Straight Lines and Curved Lines, Geometrical Shapes.

The actual test paper consists of 35 questions. Time allowed: 60 minutes. There are 3 sections.

SYLLABUS

Section-I: Word and Structure Knowledge : Adverbs, Prepositions, Pronouns (possessive, demonstrative, etc.), Simple tenses, Irregular verbs, Modals (of ability and permission, etc.), Basic questions, etc. Collocations, Spellings, Words related to animals, Household things, Clothes, Basic emotions, Food, Animals and Pets, etc.

Section-II: Reading : Search for and retrieve information from various text types like stories, Anecdotes, etc. Understand information through pictures, Time-table format, etc., Acquire broad understanding of and look for specific information in short texts like messages, Invitations, etc.

Section-III: Spoken and Written Expression : Ability to understand situation-based variations in functions like apology, greeting, introduction, request, etc.
1. The fraction of unshaded part is ________.
   (A) $\frac{2}{3}$  (B) $\frac{1}{3}$  (C) $\frac{1}{2}$  (D) $\frac{3}{2}$

2. In one trip a car can take 6 people. In how many trips can it take 30 people?
   (A) 5 trips  (B) 6 trips  (C) 4 trips  (D) 10 trips

3. Raman had 28 balloons. In a party, 8 balloons burst. How many are left with him?
   (A) 20  (B) 21  (C) 25  (D) 18

4. $2 + 3 + 16 = 10 +$ ________
   (A) 9  (B) 21  (C) 10  (D) 11

LOGICAL AND ANALYTICAL REASONING

5. If $\oplus$ means $+$, $\odot$ means $-$, $\bigtriangledown$ means $>$, $\bigtriangleup$ means $<$, then which of the following is NOT true?
   (A) $2 \oplus 5 \bigtriangledown 4$  (B) $5 \odot 3 \bigtriangleup 7$  (C) $10 \oplus 5 \bigtriangledown 5$  (D) $4 \odot 2 \bigtriangleup 7$

6. Find the odd one out.
   (A) Sunday  (B) January  (C) Wednesday  (D) Friday

7. In which one of the following numbers, the digits cannot be rearranged to get another three digit number?
   (A) 400  (B) 425  (C) 968  (D) 129

8. Find odd one out.
   (A)  (B)  (C)  (D)

COMPUTERS AND INFORMATION TECHNOLOGY

9. In MS-Word, what tab of the ribbon do you need to be on, to see the document views that are available?
   (A) View  (B) Home  (C) Page Layout  (D) Insert

10. ________ represents which part of computer?
    (A) Keyboard  (B) Mouse  (C) CD  (D) CPU

11. Which of the following statements about a computer is NOT correct?
    (A) You can watch movies on it.  (B) You can solve your sums on it.
    (C) You can play games on it.  (D) You can cook food with it.

12. The key that erases characters towards the left is ________.
    (A)  (B)  (C)  (D)

13. Find the odd term out.
    (A) Keyboard  (B) Mouse  (C) Monitor  (D) Joystick
14. The is also called ________.
   (A) VDU (B) CPU (C) ALU (D) CU

15. MS-Paint is a windows program that is used for ________.
   (A) Calculations (B) Writing letters
   (C) Drawing purposes (D) Preparing presentations

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National Science Olympiad

MENTAL ABILITY

1. If Rahul puts exactly 2 fish in each fishbowl, how many fish will he use to put in 20 bowls?
   (A) 40 (B) 22 (C) 42 (D) 20

2. Which is true?
   (A) 6,293 > 4,526 (B) 4,521 < 4,297
   (C) 6,113 > 6,169 (D) 6,750 = 6,150

3. Which means seven thousand five hundred ninety-two?
   (A) 7,592 (B) 5,792 (C) 5,972 (D) 7,529

4. Reena ate 1/8 of the cake. How much of the cake did she eat?
   (A) (B) (C) (D)

5. The chart shows the number of pages Mansi read during four days.

<table>
<thead>
<tr>
<th>Day</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pages Read</td>
<td>24</td>
<td>17</td>
<td>31</td>
<td>26</td>
</tr>
</tbody>
</table>

   How many more pages did Mansi read on Wednesday than on Tuesday?
   (A) 26 (B) 16 (C) 14 (D) 24

---

SCIENCE

6. Solar energy comes from
   (A) The sun (B) Tides (C) Oil (D) Fossils

7. Water droplets that are too heavy to float make
   (A) Fog (B) Clouds (C) Rain (D) Smoke

8. Which of the following does not take the shape of the container it is in?
   (A) Pencil (B) Oil (C) Water (D) Milk

9. The figures below show the roots of some plants. Which of the following will hold the plant most firmly to the soil?

   (A) (B) (C) (D)
10. Ducks have
(A) Short and broad beaks
(B) Broad and flat beaks
(C) Slender beaks
(D) Pointed beaks

11. Look at the classification table shown.
‘P’ & ‘Q’ is correctly represented by ________.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Q</td>
</tr>
<tr>
<td>(A) Tomato</td>
<td>Chilli</td>
</tr>
<tr>
<td>(B) Mimosa</td>
<td>Dragon fruit</td>
</tr>
<tr>
<td>(C) Pineapple</td>
<td>Rubber</td>
</tr>
<tr>
<td>(D) Apple</td>
<td>Coconut</td>
</tr>
</tbody>
</table>

12. I protect the brain. I consist of bones which are fused firmly together to form a shell-like structure. What am I?
(A) Skull
(B) Ribcage
(C) Spine
(D) Sternum

13. The bird that lays its eggs in the nest of a crow is
(A) Cuckoo
(B) Parrot
(C) Woodpecker
(D) Pigeon

14. Which of the following will not dissolve in water?
(A) Salt
(B) Sugar
(C) Sand
(D) Baking soda

15. Soil helps trees because soil —
(A) Makes food for the trees
(B) Moves the tree seeds to new places
(C) Gives nutrients to the trees
(D) Turns the roots into new trees
9. Komal built a birdhouse at summer camp.
   What shape is the piece of wood that was cut out to make the door of her birdhouse?
   (A) Triangle          (B) Diamond
   (C) Circle            (D) Pentagon

10. Mrs. Ryan shows her class two groups of shapes.
    Then she asks, “Which rule was used to sort these shapes into groups?”
    (A) Large things and small things
    (B) Triangles and squares
    (C) Circles and figures with 4 sides
    (D) Triangles and figures with four sides

11. Jenny is weaving a pattern into a rug.
    What would most likely come next?
    (A) ⬤ ⬤ ⬤ ⬤ ⬤ ⬤ ⬤ ⬤
    (B) ○ ○ ○ ○ ○ ○ ○ ○
    (C) △ △ △ △ △ △ △ △
    (D) ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼

12. Meena made this pattern with balls:
    ![Pattern with balls]
    Which of the following uses a rule most different from Meena’s pattern?
    (A) ★ ★ ★ ★ ★
    (B) ★ ★ ★ ★ ★
    (C) □ □ □ □ □
    (D) □ □ □ □ □

13. If Pawan has baseball practice every fourth day in the month of March, starting with March 1, what date will be his last day of practice for the month?
    (A) March 28
    (B) March 29
    (C) March 30
    (D) March 31

14. The rule for sorting is “has four or more corners.” Which group has been sorted correctly?
    (A) ○ ○ ● ●
    (B) △ △ ● ●
    (C) □ □ ● ●
    (D) ○ ○ △ △

15. Third-grade students went to a theatre in 8 buses. Each bus took 45 students. How many students went to the theatre?
    (A) 320       (B) 360       (C) 380       (D) 3240
WORD AND STRUCTURE KNOWLEDGE

1. Look at the pictures. Find the correct word for the picture.

(A) Writer  (B) Dancer  (C) Singer

2. Find the odd pair.
   (A) Cat : Kitten  (B) Cow : Calf  (C) Pig : Pigeon

3. Complete the sentence with the correct spelling of the word.
   The bear went over the __________.
   (A) Mountan  (B) Mountain  (C) Mountane

4. Complete the word using the letters from the box.
   She saw her mother. Her eyes were shining with happ________.
   (A) Yness  (B) Iness  (C) Eness

5. Find the odd word.
   (A) Run  (B) Walk  (C) Table

6. Fill in the blanks.
   There are thirty tables and thirty _______ in my classroom.
   (A) Chair  (B) Chairs  (C) A chair

7. My teacher’s name is Sheela. I like _______.
   (A) Her  (B) Him  (C) She

8. Given below are three sentences. One of them is incorrect. Find the incorrect sentence and mark it in your answer sheet.
   (A) I go for a walk.
   (B) My father’s name are Prasad.
   (C) My name is Kishan.

READING

Direction (Q. No. 9 to 12) : Read the letter and answer the questions.

Letter to Rudolf, Santa’s Reindeer
Dear Rudolf
My name is Meethu. I am a baby parrot! I live with my friend in the great city of Mumbai in the state of Maharashtra. Of course, that’s in India, but I’ll bet you knew that! Rudolf, some things that I might like for Christmas this year, two bags full of my favourite seed-mix, lots of green chillies and another
baby parrot to play with. And please don’t forget to put in a good word for my friend with Santa! He is very nice. He doesn’t keep me in a cage.

Lots of Love
Meethu
Now, choose the correct answer.

9. Meethu lives in
   (A) Hyderabad  (B) Mumbai  (C) A cage

10. Meethu asks for
    (A) Two things  (B) Three things  (C) Five things

11. Meethu asks Rudolf some things for
    (A) Christmas  (B) Holi  (C) Good Friday

12. Why does Meethu like his owner?
    (A) He doesn’t give him food.  (B) He puts Meethu in a cage.
    (C) He allows Meethu to fly.

13. Find a sentence matching the picture.
    (A) The girl is posting a letter. A crow is looking at her.
    (B) The girl is looking at the crow. The crow is posting a letter.
    (C) The girl is buying vegetables. There is a post-box.

SPOKEN AND WRITTEN EXPRESSION

14. Find one sentence to complete the dialogue.
    Geetha: Hello! I am Geetha! What is your name?
    Lina: (A) Hello! I am Lina.
    (B) Hello! I am going home.
    (C) Let us go home.

15. Find one sentence to complete the paragraph.
    Ram didn’t want to swim in the sea.
    He sat on the beach and watched Rahul and Mahesh.
    (A) Mummy gave Ram an ice cream but he didn’t want it.
    (B) They played in the water.
    (C) But Paul didn’t want to.
SAMPLE ANSWER SHEET

1. NAME: If your name is SACHIT A IYER, then you should write as follows:

2. FATHER’S NAME: If your father’s name is SATISH KUMAR IYER, then you should write as follows:

3. SCHOOL CODE: Write your school code i.e. if your school code is MH0547 darken as follows:

4. CLASS: If you are in Class 10, then you should darken as follows:

5. ROLL NO.: If your roll no. is 587, then you should write and darken the circles as follows:

6. GENDER: Male circle

7. MARK YOUR ANSWERS WITH HB PENCIL/BALL POINT PEN (BLUE/BLACK)

National Cyber Olympiad

1. (A) 2. (D) 3. (B) 4. (B) 5. (B)
6. (A) 7. (A) 8. (B) 9. (B) 10. (B)
11. (A) 12. (A) 13. (A) 14. (B) 15. (B)

National Science Olympiad

1. (B) 2. (C) 3. (C) 4. (A) 5. (A)
6. (B) 7. (B) 8. (C) 9. (C) 10. (A)
11. (B) 12. (B) 13. (C) 14. (C) 15. (C)

International Mathematics Olympiad

1. (C) 2. (C) 3. (A) 4. (C) 5. (B)
6. (C) 7. (E) 8. (B) 9. (B) 10. (C)
11. (C) 12. (C) 13. (C) 14. (C) 15. (C)

International English Olympiad

1. (B) 2. (C) 3. (B) 4. (B) 5. (C)
6. (B) 7. (B) 8. (A) 9. (A) 10. (C)
11. (B) 12. (B) 13. (B) 14. (C) 15. (B)

ANSWERS

National Cyber Olympiad
1. (A) 2. (A) 3. (A) 4. (D) 5. (D) 6. (B) 7. (A) 8. (D) 9. (A) 10. (B) 11. (C) 12. (A) 13. (C)

National Science Olympiad
1. (A) 2. (A) 3. (A) 4. (C) 5. (C) 6. (A) 7. (C) 8. (A) 9. (C) 10. (B) 11. (B) 12. (C) 13. (A) 14. (C) 15. (C)

International Mathematics Olympiad
1. (B) 2. (B) 3. (C) 4. (C) 5. (A) 6. (A) 7. (B) 8. (A) 9. (C) 10. (B) 11. (B) 12. (B) 13. (A) 14. (C) 15. (B)

International English Olympiad
1. (B) 2. (C) 3. (B) 4. (B) 5. (C) 6. (B) 7. (B) 8. (A) 9. (B) 10. (C) 11. (C) 12. (A) 13. (A) 14. (A) 15. (B)