SECTION - I
MENTAL ABILITY TEST
PART - 1

Directions : In Question Nos. **1** to **4**, alphabetical patterns/number patterns are given, with one term missing. Observe the pattern carefully and choose the correct option from (A), (B), (C) and (D) that completes the pattern logically. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

1.

GI	LN	QS
CE	HJ	MO
KM	PR	?

(A) V W (B) U W (C) W Y (D) V X

2.

lm	nop	qrst
ab	cde	fghi
pq	?	uvwx

(A) stu (B) tsr (C) str (D) rst

3.

4	5	18
3	7	?
6	8	28

(A) 22 (B) 20 (C) 26 (D) 24

4.

E 4	H 3	K 3
T 2	?	Z 3
F 3	I 3	L 2

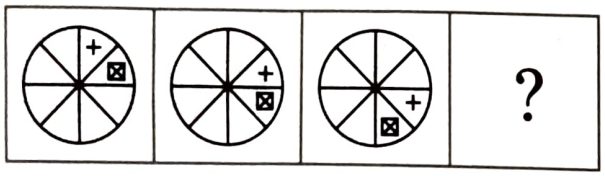
(A) X 2 (B) W 4 (C) W 5 (D) V 2

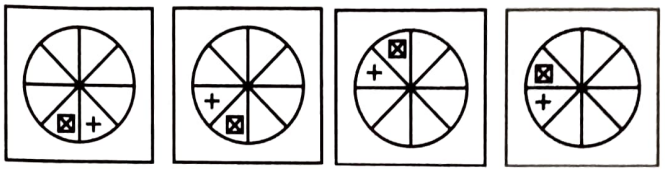
PART - 2

Directions : In Question Nos. **5** to **8**, there are three question figures on the left side and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure from the answer figures given on the right side which occupies the blank space for the fourth figure on the left side and completes the series. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

Question Figures | **Answer Figures**

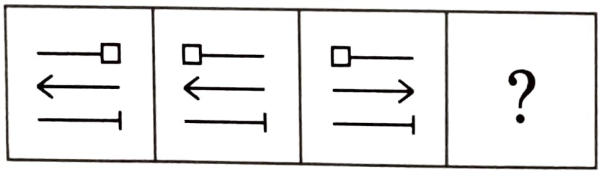
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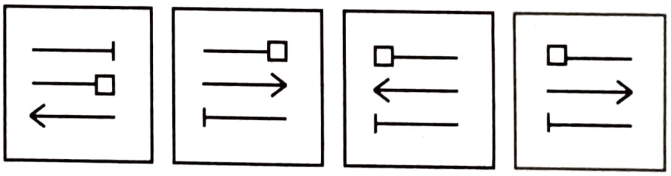




(A) (B) (C) (D)

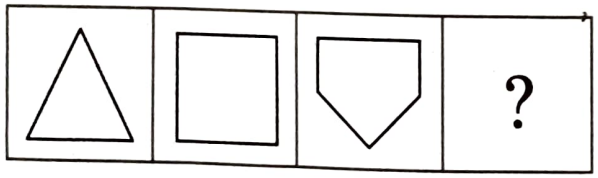
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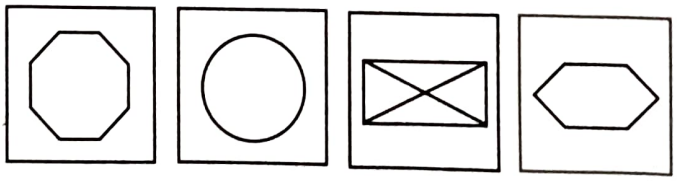




(A) (B) (C) (D)

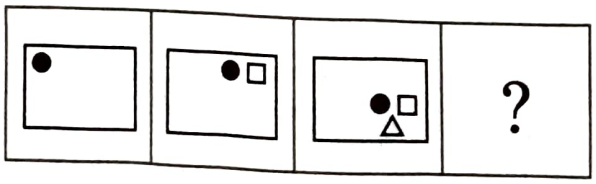
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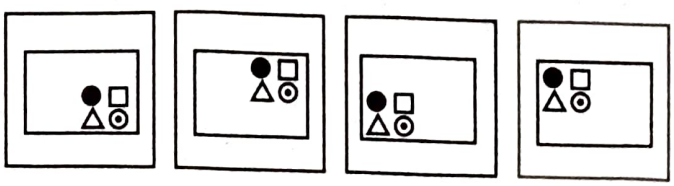




(A) (B) (C) (D)

8.



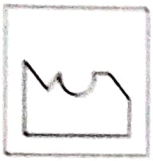


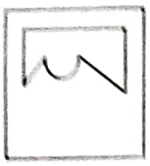
(A) (B) (C) (D)

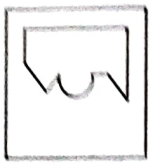
PART - 3

Directions : In Question Nos. **9** to **12**, one part of a geometrical figure (Triangle, Rectangle, Circle) is on the left side as the question figure and the other part is among the four answer figures (A), (B), (C) and (D) on the right side. Find the figure on the right side that completes the geometrical figure and indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

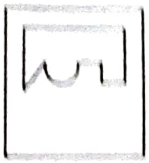
Question Figure | **Answer Figures**

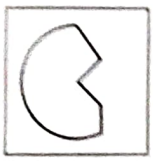
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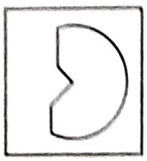

(A)


(B)


(C)

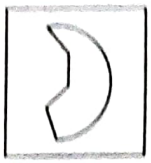

(D)

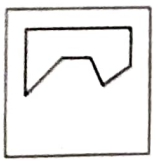
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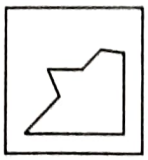

(A)

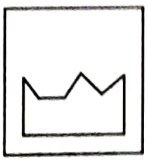

(B)

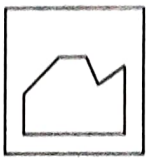

(C)


(D)

11. 


(A)

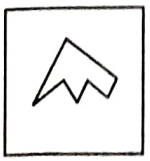

(B)


(C)


(D)

12. 


(A)


(B)


(C)

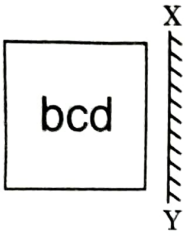

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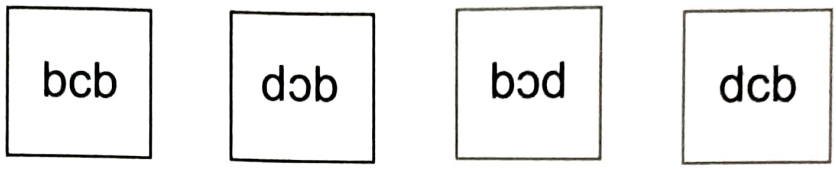
PART - 4

Directions : In Question Nos. **13** and **14**, there is a question figure on the left side and four answer figures marked (A), (B), (C) and (D) are given on the right side. Select the answer figure which is an appropriate mirror image of the question figure when the mirror is held at XY line. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

Question Figure | **Answer Figures**

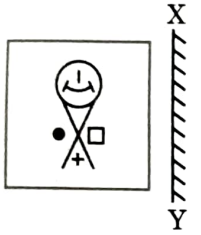
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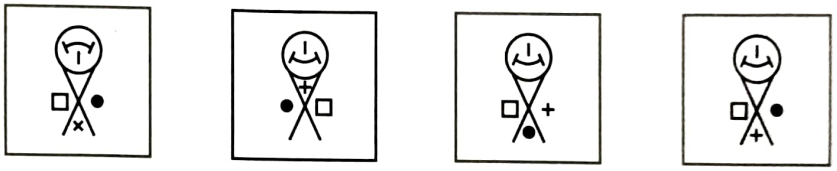




(A) (B) (C) (D)

14.





(A) (B) (C) (D)

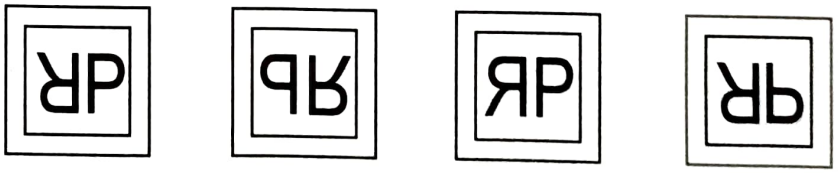
PART - 5

Directions : In Question Nos. **15** and **16**, there is a question figure on the left side and four answer figures marked (A), (B), (C) and (D) are given on the right side. Select the answer figure which is an appropriate water image of the question figure when the water level is at XY line. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

Question Figure | **Answer Figures**

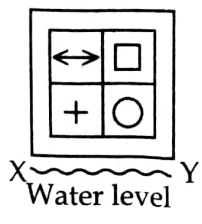
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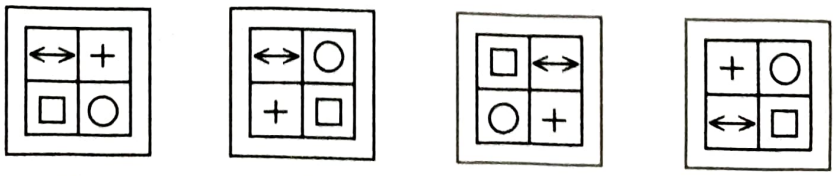




(A) (B) (C) (D)

16.



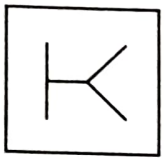


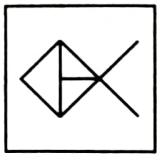
(A) (B) (C) (D)

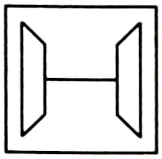
PART - 6

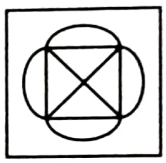
Directions : In Question Nos. **17** to **20**, a question figure is given on the left side and four answer figures marked (A), (B), (C) and (D) are given on the right side. Select the answer figure in which the question figure is hidden/embedded. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

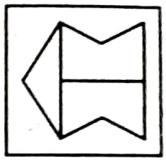
Question Figure | **Answer Figures**

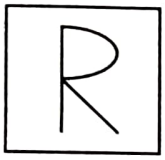
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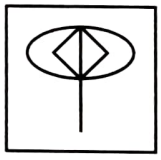

(A)

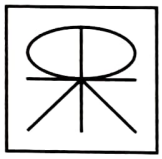

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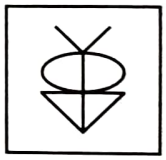

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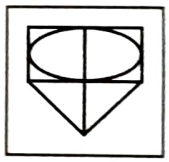

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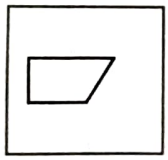
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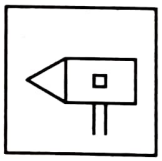

(A)

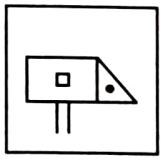

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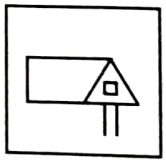

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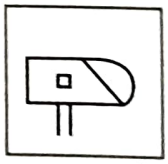

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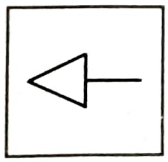
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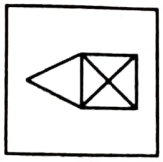

(A)

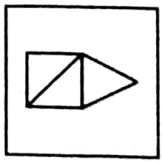

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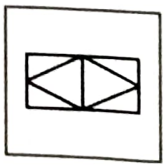

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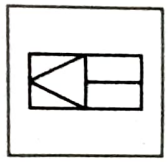

(D)

20. 


(A)


(B)


(C)


(D)

SECTION - II
ENVIRONMENTAL STUDIES TEST

Directions : For every question, **four** probable answers as (A), (B), (C) and (D) are given. Only **one** out of these is **correct**. Choose the correct answer and indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

21. Which one of the following is **not** a part of the 'Drum' musical instrument family ?

(A) Pakhawaj

(B) Khanjira

(C) Mridangam

(D) Sitar

22. Which one of the following places is the Southernmost point of the Indian mainland ?

(A) Ladakh

(B) Konkan

(C) Malabar

(D) Kanyakumari

23. Which of the following is a renewable energy ?

(A) Energy generated from Coal

(B) Energy generated from Wood

(C) Energy generated from Petrol

(D) Energy generated from the Sun

24. Which of the following options best describes the term 'Tributaries' ?

(A) Rainwater that joins a river

(B) Waterfalls along the river

(C) Streams that join a river

(D) Land near the flow of a river

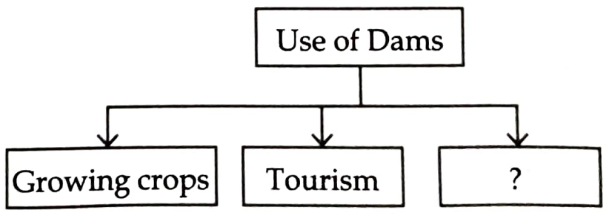
25. Choose the correct option to fill the blank :

Food gets contaminated due to the growth of _____.

(A) Vitamins (B) Microbes

(C) Spices (D) Minerals

26. Choose the correct option that will replace the '?' in the given figure :



(A) Salt making

(B) Electricity generation

(C) Plastic making

(D) Ice melting

27. The United Nations in 2014 declared 21st June as the International Day of _____.

(A) Yoga (B) Unity

(C) Technology (D) Science

28. Which of the following is the longest river of India ?

(A) Godavari

(B) Ganga

(C) Narmada

(D) Kaveri

29. Which one of the following pairs is correctly matched ?

	Column - A (Form of Water)	Column - B (Description)
(A)	Stream	Underground water
(B)	Snow	Solid form of water
(C)	Ocean water	Vapour form of water
(D)	Rainwater	Salty water

30. 'Phulkari' embroidery is originally from which of the following states of India ?

(A) Haryana (B) Gujarat

(C) Punjab (D) Rajasthan

31. Which of the following is the safest way for pedestrians to cross the road ?

(A) Crossing between the parked cars

(B) Running fast on busy roads

(C) Using zebra crossing

(D) Using traffic tracker app

32. Which of the following is the best example of saving electricity ?

(A) Keeping the AC on for the whole day

(B) Switching off the fan while leaving the room

(C) Always keep the charger plugged in and switched 'on'

(D) Keeping lights on for the whole day

33. Identify the symbol of the Indian Currency.

(A) € (B) $

(C) ₹ (D) ¥

34. Which one of the following pairs is correctly matched ?

	Column - A (Festivals)	Column - B (Season)
(A)	Pongal	Winter
(B)	Holi	Autumn
(C)	Diwali	Spring
(D)	Baisakhi	Monsoon

35. Which one of the following actions is useful in reducing wastage ?

(A) Using disposable plates

(B) Burning garbage

(C) Recycling paper

(D) Using plastic bottles

Read the following source carefully and answer the question nos. 36 to 40.

VASUDHAIVA KUTUMBAKAM

When we see the world as one family, we learn to live with respect, care and love for one another and for the Earth that supports us all. That is what 'Vasudhaiva Kutumbakam' teaches us.

Earth is truly special. It is the only planet we know that has life! For thousands of years, it has supported people, animals and plants.

Earth needs care too. When we care for the Earth, we are caring for each other because we are all one family.

Earth is our shared home as it is a gift we must care and protect, for ourselves, for others and for the future.

36. Why should we see the world as one family ?

(A) To have faith in one's own family

(B) To support all human beings

(C) To avoid war among neighbours

(D) To live with respect and care for all

37. Why is the Earth called 'our shared home' ?

(A) We care for our country

(B) We care for our Earth

(C) We care for our culture

(D) We care for our city

38. What does the phrase 'Vasudhaiva Kutumbakam' mean ?

(A) The world is full of life

(B) The world is one family

(C) The Earth moves around the Sun

(D) The Earth has land and water

39. Why should we care for the Earth ?

(A) Because the Earth supports humans and nature

(B) Because the Earth supports continents and oceans

(C) Because the Earth supports countries and Islands

(D) Because the Earth supports planets and galaxies

40. Why is the Earth special ?

(A) It is the biggest planet

(B) It is the closest to the Sun

(C) It is known to have life

(D) It is a red planet

SECTION - III
ARITHMETIC TEST

Directions : For every question, **four** probable answers as (A), (B), (C) and (D) are given. Only **one** out of these is **correct**. Choose the correct answer and indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

41. 14 hours 18 minutes is equal to how many seconds ?

(A) 51,480 seconds

(B) 50,400 seconds

(C) 51,000 seconds

(D) 50,000 seconds

42. The area of a rectangular plot is 180 square metres. If its length is 15 metres then its perimeter is :

(A) 60 metres (B) 12 metres

(C) 54 metres (D) 27 metres

43. Rahul turned his bicycle by a $\frac{3}{8}$ turn of a circle to avoid a pothole on the road. What type of angle did he turn through ?

(A) Acute angle

(B) Right angle

(C) Obtuse angle

(D) Straight angle

44. Which of the following shows the numbers arranged in ascending order ?

(A) 305218, 350218, 305812, 350812

(B) 305218, 305812, 350218, 350812

(C) 350812, 350218, 305812, 305218

(D) 305812, 305218, 350218, 350812

45. Fill in the blanks in the given order :

8887 hours =_____ year(s) _____ days _____ hours.

(A) 1, 5, 7 (B) 1, 4, 7

(C) 1, 3, 23 (D) 2, 0, 0

46. $50 - [20 + \{20 - (8 \div 2)\}]$, on simplification gives :

(A) 14 (B) 25

(C) 11 (D) 19

SPACE FOR ROUGH WORK

47. If the perimeter of a rectangle is 932 cm and its breadth is 320 cm, then its length is :

(A) 146 cm (B) 148 cm

(C) 156 cm (D) 256 cm

48. An engine pumps out 8450 litres of water in one hour. If it runs 12 hours a day, how many litres of water will it pump out in 5 days ?

(A) 422500 litres (B) 507000 litres

(C) 607000 litres (D) 101400 litres

49. If A is the greatest 4-digit number formed by the digits 2, 3, 5 and 6 and B is the smallest 3-digit number formed by the digits 8, 6 and 9, then the sum (A + B) is :

(A) 5843 (B) 5842

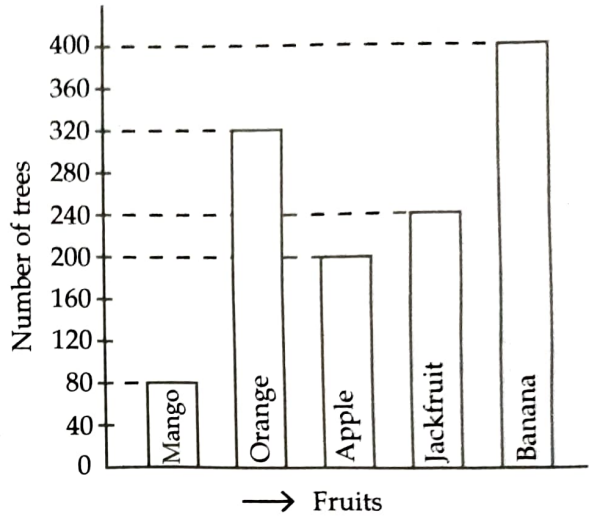
(C) 7221 (D) 7220

50. The sum of all factors of 44 is :

(A) 83 (B) 84

(C) 40 (D) 85

51. An orchard contains five types of fruit trees. The following bar graph shows the number of trees of fruits :



Based on the given bar graph, how many fewer mango trees are there than the apple trees and jackfruit trees taken together ?

(A) 300 (B) 360

(C) 260 (D) 200

52. Radha bought 1800 ml of milk and Rekha bought 3200 ml of milk. How much milk did both girls buy in total ?

(A) 4 litres (B) 5 litres

(C) 3 litres (D) 2 litres

53. A rectangular park is 40 metres long and 20 metres wide. What is the total distance covered by an athlete who runs along its boundary 4 times ?

(A) 480 metres (B) 460 metres

(C) 440 metres (D) 420 metres

SPACE FOR ROUGH WORK

54. What should be added to $\frac{47}{30}$ to get $\frac{57}{30}$?

(A) $\frac{2}{3}$ (B) $\frac{1}{3}$

(C) $\frac{4}{3}$ (D) $\frac{7}{3}$

55. $\frac{1}{17}\left(18 + 19 - 5 + \frac{1}{9}\right)$ on simplification gives :

(A) $\frac{287}{153}$ (B) $\frac{289}{17}$

(C) $\frac{289}{153}$ (D) $\frac{288}{153}$

56. $\frac{259}{17} + \frac{33}{51} - \frac{80}{85}$ is equal to :

(A) $\frac{254}{17}$ (B) $\frac{286}{17}$

(C) $\frac{252}{17}$ (D) $\frac{284}{17}$

57. Shyam went out to play at 4:30 p.m. and came back after 2 hours 40 minutes. At what time did he come back ?

(A) 6:50 p.m. (B) 7:00 p.m.

(C) 7:10 p.m. (D) 7:20 p.m.

58. A contractor is building a new township which will have 28 flats. If he sells each flat at ₹56,240, then how much money will he get on selling all the flats ?

(A) ₹17,54,720 (B) ₹15,74,720

(C) ₹51,74,720 (D) ₹57,14,720

59. The first three common multiples of 4 and 12 are :

(A) 12, 24, 36 (B) 4, 12, 20

(C) 12, 28, 36 (D) 12, 28, 72

60. When the minute-hand of a clock moves by 45 minutes, it has made how much turn of the circle ?

(A) $\frac{1}{4}$ of a full turn

(B) $\frac{3}{4}$ of a full turn

(C) $\frac{1}{8}$ of a full turn

(D) $\frac{1}{6}$ of a full turn

SPACE FOR ROUGH WORK

SECTION - IV
LANGUAGE TEST

Directions : There are **four** passages in this Section. Each passage is followed by **five** questions. Read each passage carefully and answer the questions that follow. For each question, **four** probable answers as (A), (B), (C) and (D) are given. Only **one** out of these is **correct**. Choose the correct answer and indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

Passage - 1

Shivaji was the real founder of the Maratha nation. He set himself to unite all the Maratha tribes into one nation, with one religious faith. He first freed them from the Muslim State of Bijapur in 1662. He then began a long struggle against the Mughal Emperor Aurangzeb - a struggle which ended in victory for Shivaji. The Marathas became independent and Shivaji was crowned as Chhatrapati in 1674 at Raigad. He reigned for six years and died in 1680. Shivaji was bold, active and clever in both fighting and ruling. He is considered as a National Hero.

61. According to the given passage, Shivaji was _____.

(A) The real founder of the Maratha nation

(B) A great poet

(C) A founder of a religion

(D) A great Saint

62. The year 1662 is important because _____.

(A) Shivaji defeated Aurangzeb

(B) Shivaji was born in this year

(C) Shivaji freed the Marathas from the Muslim State of Bijapur

(D) Shivaji came to Delhi

63. What title was given to Shivaji ?

(A) Maharaja (B) Chhatrapati

(C) Emperor (D) Bahadur

64. Which of the following qualities describe Shivaji ?

(A) Bold, active and clever

(B) Bold and active

(C) Active and clever

(D) Hardworking and clever

65. Who can be called a 'National Hero' ?

(A) A person with a lot of money

(B) A person who is a big landlord

(C) A person who is a nationalist, patriot and a leader of the people

(D) A person running many businesses

Passage - 2

The Great Pyramid at Giza is one of the world's most amazing landmarks. Rising high above the Sahara Desert in the Giza region of Northern Egypt, the Great Pyramid stands over 135 metres high and occupies an area of 13 acres in the scorching desert. The rough climate of the Sahara has caused the pyramid to shrink some 9 metres (30 feet) from its original height. The pyramid was such an amazing feat of engineering that it remained the tallest structure in the world for over 3800 years! The entire pyramid was originally covered with polished limestone to make it shine brilliantly in the Sun.

Most Egyptologists - Scientists who study ancient Egypt, agree that the Great Pyramid was built around 2560 BC, a little more than 4500 years ago. It took tens of thousands of workers and twenty years to build. The pyramid contains over two million stone blocks. Although most of the blocks weigh two or three tons, some weigh up to 80 tons!

66. The Great Pyramid at Giza is _____.
   (A) A big garden
   (B) A massive desert
   (C) An amazing landmark
   (D) An unimportant place

67. The word 'scorching' means _____.
   (A) Very pleasant (B) Icy cold
   (C) Attractive (D) Very hot

68. The Great Pyramid has shrunk 9 metres (30 feet) from its original height due to _____.
   (A) the rough climate of the Sahara
   (B) damp ground
   (C) weak foundation
   (D) strong winds

69. Why was the Pyramid covered with polished limestone ?
   (A) To make it beautiful
   (B) To keep it cool
   (C) To make it shine brilliantly in the Sun
   (D) To attract tourists

70. Who is an Egyptologist ?
   (A) A native of Egypt
   (B) A tourist visiting Egypt
   (C) Someone who likes Egypt
   (D) A scientist who studies ancient Egypt

Passage - 3

Monkeys are interesting, because of all animals, they are most like humans. They are like humans in shape, the chief difference being that monkeys have long tails and instead of two hands and two feet, they have four hands. But their faces and heads are like those of humans and they often behave like humans, too.

Monkeys are tree animals. As they have four hands, they can climb trees very easily and quickly. Of course, they often come down to the ground, but they live most of their time in the trees. They can jump from one tree to another; and in the forest, from one branch to another for miles without ever coming down to the ground. They also sleep at night high up in the trees.

71. Of all animals, monkeys are interesting because _____.
   (A) They are funny
   (B) They live on trees
   (C) They are most like humans
   (D) They can chatter

72. How are monkeys different from human beings ?
(A) Human beings have four feet.
(B) Monkeys have four feet.
(C) Monkeys have four hands.
(D) Human beings have four hands.

73. The opposite of the word 'behave' is _____.
(A) Behaviour (B) Misbehave
(C) Misjudge (D) Mismanage

74. How can monkeys climb trees very easily and quickly ?
(A) They live in forests.
(B) They are very quick.
(C) They have four hands.
(D) They have keen eyesight.

75. Where do monkeys sleep at night ?
(A) In their beds
(B) In caves
(C) In the gardens
(D) High up in the trees

Passage - 4

Cleanliness is necessary for good health. A dirty and unclean body is a bed of diseases. A person who never washes, wears dirty clothes and keeps his house unclean will soon suffer from ill health. Equally important is bathing everyday to keep one's skin and body clean so that the blood does not become impure. In an unclean body disease-causing germs breed. These germs can be dangerous and spread diseases some of which could be fatal also. If you want to keep well and lead a healthy life, you must keep your body, clothes and house very clean. A clean body and a clean home give one self-respect and also earn the respect of others.

76. According to the given passage, to remain healthy, _____ is necessary.
(A) Food (B) Clothes
(C) Cleanliness (D) Blood

77. How does the blood become impure ?
(A) By regular exercise
(B) By eating good food
(C) By not keeping the skin clean
(D) By wearing expensive clothes

78. The opposite of the word 'fatal' is _____.
(A) safe (B) dangerous
(C) clean (D) risky

79. Based on the passage, how can a person get self-respect ?
(A) Through kindness
(B) By being helpful
(C) By observing cleanliness
(D) By becoming rich

80. Dirt causes _____.
(A) Good health (B) Disease
(C) Anger (D) Smile

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