

**PART-I. Questions 1 to 88** are multiple choice questions. The correct answer must be marked in the OMR answer sheet provided separately. Do not write your name anywhere in the booklet. This may lead to disqualification.

**Question numbers 1 to 44 carry 0.5 marks each. Please read the question carefully and select your response from the options provided.**

- Q1. Colours of Coriander and Cabbage fall under which colour schemes?  
 (A) Split Complementary (B) Analogous  
 (C) Complementary (D) Harmonious
- Q2. What is the full form of EMI?  
 (A) Equated Monthly Installments (B) Equal Money Installment  
 (C) Equal Monthly Investments (D) Equated Money Investments
- Q3. When you buy a mobile phone you look for the SAR value of a handset. SAR value is an indicator of Specific Absorption Rate of \_\_\_\_\_, to which human body is exposed to  
 (A) Radio Frequency Electrostatic Field  
 (B) Radio Frequency Electromagnetic Field  
 (C) Microwave Frequency Bioelectric Field  
 (D) Radioactive Electromagnetic Field
- Q4. *Cartography* is the study and practice of making  
 (A) Cars. (B) Maps. (C) Artwork. (D) Carts.
- Q5. *"I believe in going with the flow. I don't believe in fighting against the flow. You ride on your river and you go with the tides and the flow. But it has to be your river, not someone else's. Everyone has their own river, and you don't need to swim, float, sail on theirs, but you need to be in your own river and you need to go with it. And I don't believe in fighting the wind. You go and you fly with your wind. Let everyone else catch their own gusts of wind and let them fly with their own gusts of wind, and you go and fly with yours."*  
 Which one of the following options best sums up the passage above?  
 (A) Determination (B) Self-esteem  
 (C) Decision Making (D) Growth
- Q6. If a human figure is standing in front of a full length rectangular concave mirror how will her/his reflection look like?  
 (A) Taller and thinner (B) Shorter and fatter  
 (C) Taller and fatter (D) Shorter and thinner
- Q7. Among the major processes in making a cloth, *Ginning* is a process of  
 (A) harvesting ripped cotton bales. (B) cleaning and opening the cotton bales.  
 (C) spinning the yarn. (D) removing the cotton seeds.

- Q8. Which is the first silent feature film made in India?  
 (A) Alam Ara by Ardeshir Irani (B) Shakuntala by Suchet Singh  
 (C) Devdas by Naresh Mitra (D) Raja Harishchandra by Dadasaheb Phalke
- Q9. Which airport in India became fully solar powered in 2015?  
 (A) Cochin International Airport (B) Bengaluru International Airport  
 (C) Chennai International Airport (D) Hyderabad International Airport
- Q10. Which is the most abundantly available fossil fuel in India?  
 (A) Natural Gas (B) Coal (C) Petroleum (D) Biogas
- Q11. Which of the following does the term Corporate Social Responsibility (CSR) relate to?  
 (A) Ethical conduct (B) Environmental practices  
 (C) Human rights & employee (D) All these
- Q12. Select the odd one out:  
 (A) Bimal Roy, Mrinal Sen, Satyajit Ray  
 (B) Ravindranath Tagore, Mahatma Gandhi, Bal Gangadhar Tilak  
 (C) Manto, Chughtai, Gulzar  
 (D) Shabana Azmi, Prasoona Joshi, Sayeed Jaffery
- Q13. What is the colour of a Black Box of a commercial aircraft?  
 (A) Black (B) Green (C) Pink (D) Orange
- Q14. Which shape will match the cross section of a Ladyfinger (vegetable)?  
 (A) Octagon (B) Hexagon (C) Pentagon (D) Septagon
- Q15. An example of Interactive Voice Response System (IVRS) that is used in our day-to-day life is  
 (A) The Telephone Enquiry Service. (B) The Cloud Computing Service.  
 (C) The Web Server Service. (D) None of these
- Q16. Which Indian sportsperson attained World Rank number one (Singles title) in 2015?  
 (A) Saina Nehwal (B) Sania Mirza (C) Jwala Gutta (D) Ashwini Ponappa
- Q17. The Industrial Revolution that took place in Europe around 1750 A.D. began in which of the following countries?  
 (A) Germany (B) France (C) Italy (D) England
- Q18. Who is considered to be the Father of India's Atomic Energy Programme?  
 (A) Raja Ramanna (B) Homi Bhabha  
 (C) Vikram Sarabhai (D) Dr. A P J Abdul Kalam

- Q19. With reference to your current location, identify the city, which is most eastward located:  
(A) Singapore                      (B) Hong Kong                      (C) Manila                      (D) Jakarta
- Q20. Which of the following statements is false?  
(A) Mahabharata is narrated by Ved Vyas  
(B) Valmiki authored Ramacharitmanas  
(C) Meghadootam is composed by Kalidasa  
(D) Yayati is written by Girish Karnad
- Q21. The death of which rationalist Kannada writer triggered a spate of protests by the Indian literary, artistic, film making and scientific community in 2015?  
(A) Govind Pansare                      (B) Channabasam  
(C) Narendra Dabholkar                      (D) Dr. M.M.Kalburgi
- Q22. What are the dates 9/11, 26/11 and 13/11 known for?  
(A) Earthquakes                      (B) Terrorist Attacks  
(C) Tsunamis                      (D) Deaths of famous personalities
- Q23. Which of the following is considered among the four old world river valley cultures apart from Indus Valley, Egypt, and Yellow River Valley of China?  
(A) Mesoamerica                      (B) Mesopotamia                      (C) Andes                      (D) Byzantium
- Q24. The following picture depicts  
(A) remote crawler.  
(B) hilly-biller space-walker.  
(C) stark lemon squeezer.  
(D) voyager 12.



- Q25. The rate of inflation in India is measured generally with respect to movement of  
(A) consumer price index.                      (B) cost of living index of agriculture labour.  
(C) wholesale price index.                      (D) money supply.
- Q26. Select the appropriate adjective for the word *RIVER*  
(A) Labyrinthine                      (B) Wolverine                      (C) Serpentine                      (D) Intertwine
- Q27. Refugees from which country migrated to Europe en masse in 2015?  
(A) Serbia                      (B) Libya                      (C) Siberia                      (D) Syria

Q28. Name the states of the folk art forms below in their respective order:



(i) Madhubani



(ii) Warli

- (A) Tamil Nadu and Telangana respectively
- (B) Bihar and Maharashtra respectively
- (C) Orissa and Gujarat respectively
- (D) Kerala and Karnataka respectively

Q29. Google doodle pays tribute to which Indian personality in the following image?



- (A) Sudhir Tailang
- (B) Bal Thackeray
- (C) R K Laxman
- (D) Neelabh Banerjee

Q30. The symbol © stands for

- (A) Rights of Control.
- (B) Registered Company Logo.
- (C) Copyright.
- (D) Contact Information.

Q31. Which astronomer first claimed that the earth, the moon and the other planets revolve around the sun?

- (A) Galileo Galilei
- (B) Nicolaus Copernicus
- (C) Ptolemy
- (D) Isaac Newton

Q32. Fostering cultural collaboration is one of the objectives of which of the following UN body?

- (A) UNICEF
- (B) UNIDO
- (C) UNESCO
- (D) UNO

Q33. Which of the materials listed below does not have Earth as the source?

- (A) Clay (B) Metal (C) Leather (D) Plastic

Q34. Air pollution can be of

- (A) natural origin. (B) artificial or man-made origin.  
(C) Both (A) & (B) (D) None of these

Q35. Apart from the light bulb, Thomas Edison is attributed to the invention of

- (A) Telegraph. (B) Monograph. (C) Phonograph. (D) Seismograph.

Q36. Which country experienced an earthquake, a tsunami and a nuclear accident in March 2011?

- (A) Pakistan (B) China (C) Japan (D) India

Q37. Which country recycles most of its garbage to produce electricity, and imports garbage from its neighbours?

- (A) Sweden (B) Japan (C) Switzerland (D) Canada

Q38. Who is the creator of Amar Chitra Katha?

- (A) Premchand (B) Baba Ram Dev (C) Mohandas Pai (D) Anant Pai

Q39. The following drawing is the inside view of the Basilica of St. Maria Maggiore by Giovanni Batista Piranesi (1768). It is an example of



- (A) 2 point perspective drawing. (B) 3 point perspective drawing.  
(C) 1 point perspective drawing. (D) None of these

Q40. The Jataka Tales are better known works of which literature?

- (A) Upanishads (B) Sangam (C) Jaina (D) Buddhist

Answer the questions 41 to 44 based on the living and non-living things listed below.

(A) Monkey

(B) Star Fish

(C) Snow Flakes

(D) Water Splash

Q41. Which of the living and non-living things demonstrates radial symmetry?

Q42. Which of the living and non-living things demonstrates six-fold symmetry?

Q43. Which of the living and non-living things demonstrates bilateral symmetry?

Q44. Which of the living and non-living things demonstrates five-fold symmetry?

**Question numbers 45 to 62 carry 1.0 mark each. Please read the question carefully and select your response from the options provided.**

*Below is an excerpt taken from the book titled 'Thinking Design', an NID publication. Read the paragraph carefully and answer questions 45 and 46.*

“Built environment: rural roots and urban influences-India lives in its villages. Approximately eighty percent of India’s population is rural; spread over half a million villages. Rural houses, in contrast to urban houses, are built on line evolved over thousands of years of aesthetic traditions, indigenous techniques and judicious use of the local materials such as mud, grass, bamboo, cane. Palm and coconut leaves predominate in the rural habitat in the lush green South India, while stone and sand create or adorn houses in vast desert areas of Northwest Kutch. Their design makes great ecological sense because of the use of renewable materials and great aesthetic sense because of its being in harmony with the natural surroundings.

The houses and the spaces in and around are arranged to suit the local climate. The Kutch desert houses for example are built with thick walls and small openings and narrow passages between the houses to overcome the gale of strong winds, the dust and the heat”.

Q45. Which are the local materials stated for South India?

(A) Coconut leaves and stone

(B) Palm leaves and sand

(C) Coconut leaves and Palm Leaves

(D) Stone and Sand

Q46. What are the building techniques used in Kutch houses to tackle the local climate?

(A) Thick walls

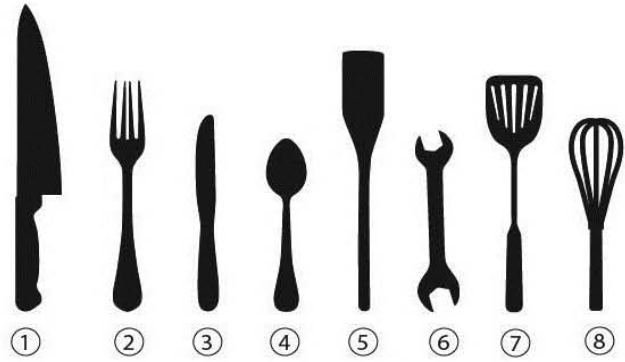
(B) Small openings

(C) Narrow space between buildings

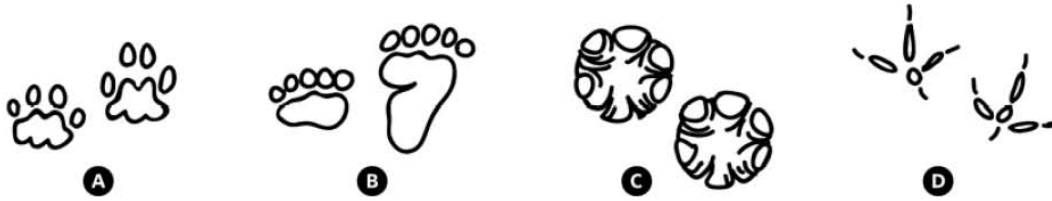
(D) All these

Q47. Select the odd one out from the given figures:

- (A) 7
- (B) 4
- (C) 1
- (D) 6

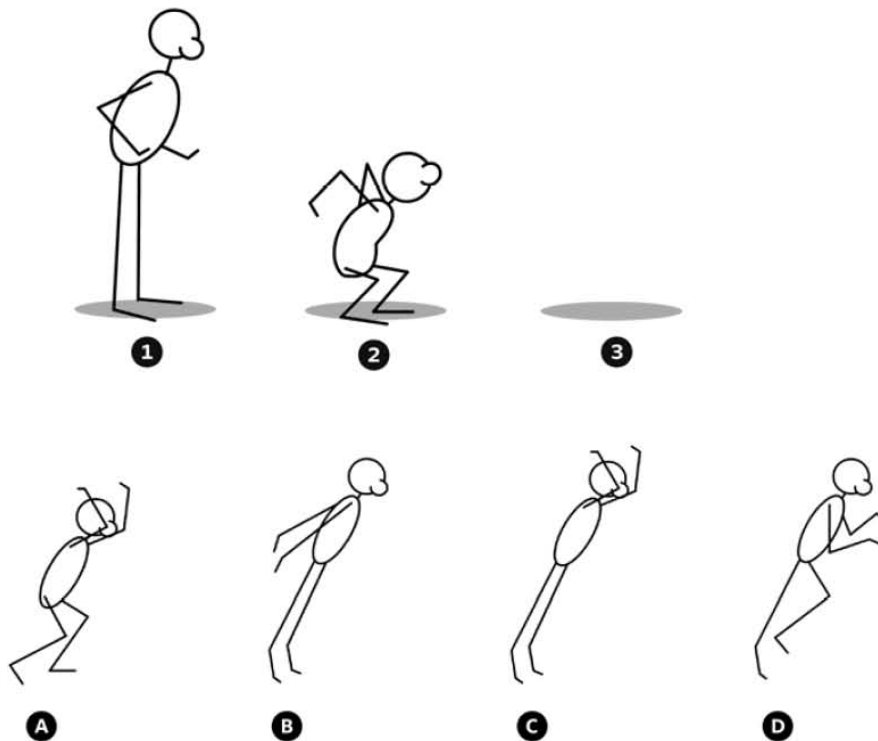


Q48. Identify the footprints in the sequence:

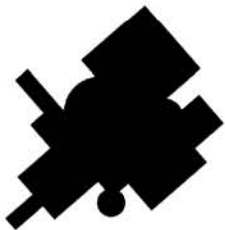
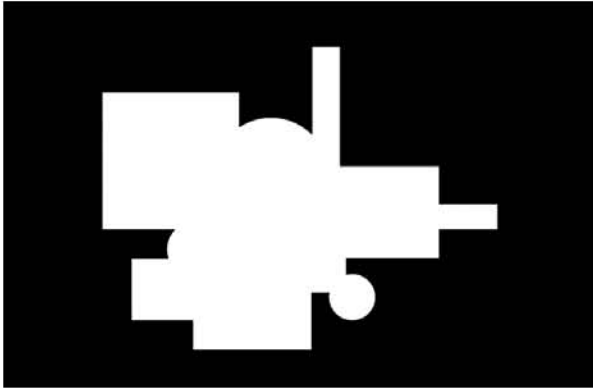


- (A) Cat, Man, Tusker, Sparrow
- (B) Tiger, Man, Elephant, Crow
- (C) Cat, Bear, Elephant, Crane
- (D) Bear, Cat, Elephant, Crane

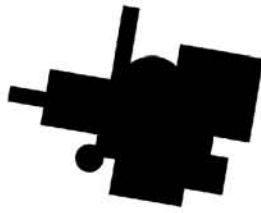
Q49. What will be the most probable pose at position 3, to complete the sequence below?



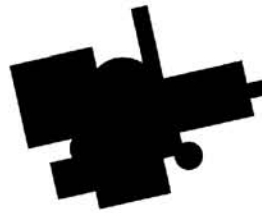
Q50. Which piece fits the jigsaw below?



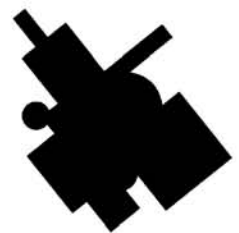
A



B



C



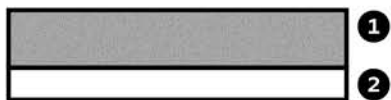
D

Q51. What is the width to length ratio of the leaf?

- (A) 1:1
- (B) 1:3
- (C) 1:4
- (D) 1:10



Q52. Strips of two metals 1 and 2 are firmly joined together as shown in figure below.



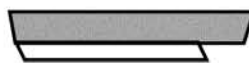
On heating 1 expands more than 2 does. If this joined strip is heated, it will appear as:



A



B



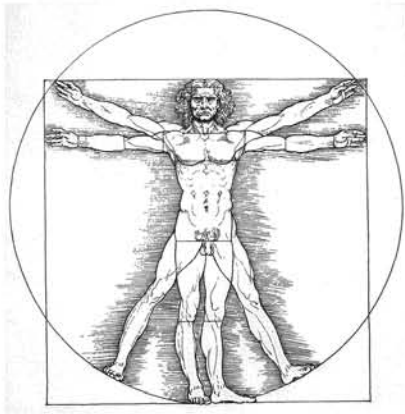
C



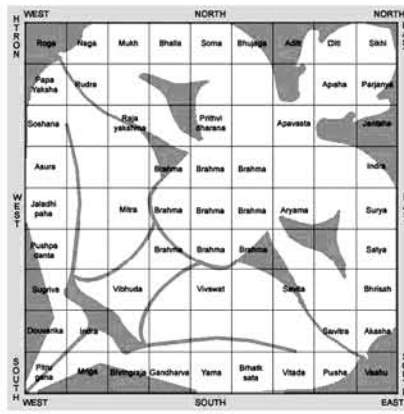
D



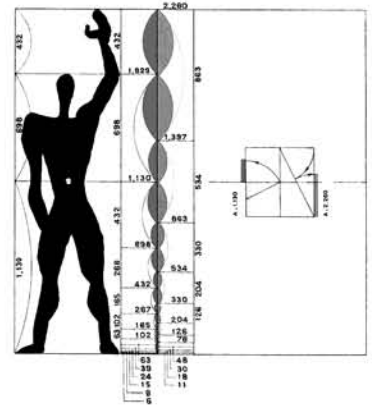
Q53. Choose the correct statement associated with all the three images below:



Vitruvian Man



Vastupurusha Mandala



Le Modulor

- (A) All of them are artworks
- (B) All of them refer to proportions in buildings and objects
- (C) Vastupurusha Mandala does not belong to the set of visuals
- (D) None of the given above is true

Q54. Select the right set of animals that corresponds correctly to the set of four patterns of animal skins given below:



1

2

3

4

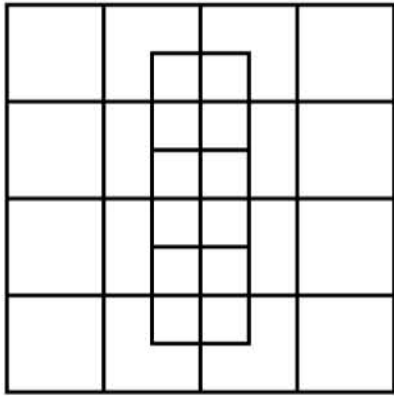
- (A) 1 Tiger, 2 Giraffe, 3 Zebra, 4 Hyena
- (B) 1 Tiger, 2 Leopard, 3 Zebra, 4 Wild cat
- (C) 1 Tiger, 2 Hyena, 3 Zebra, 4 Leopard
- (D) 1 Tiger, 2 Leopard, 3 Zebra, 4 Giraffe

Q55. Find out the next 'Number' in the series:

2 3 5 8 \_\_\_\_\_

- (A) 11
- (B) 13
- (C) 12
- (D) 14

Q56. How many squares do you see in this picture?



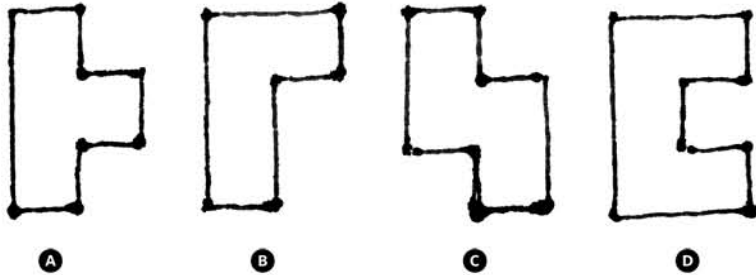
(A) 28

(B) 40

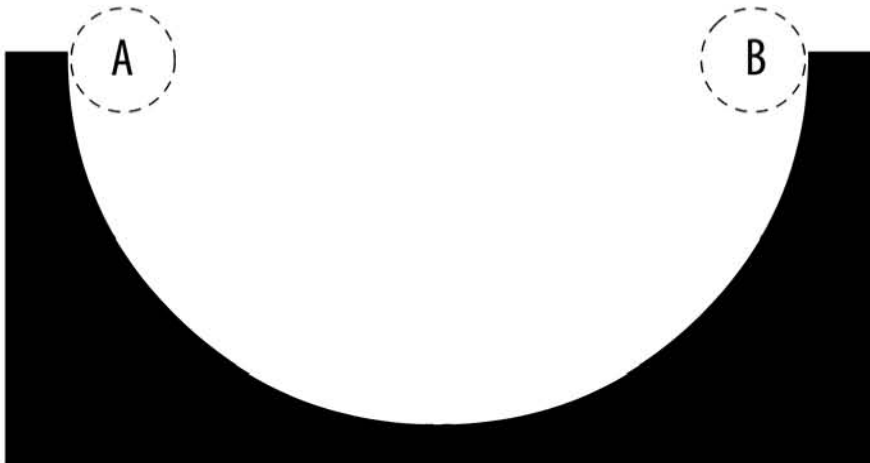
(C) 45

(D) 32

Q57. Which of the following shapes has the largest surface area?



Q58. Which ball will arrive at point B in the given figure, with maximum speed, if released from point A? NOTE: all the balls are solid and are of the same size.



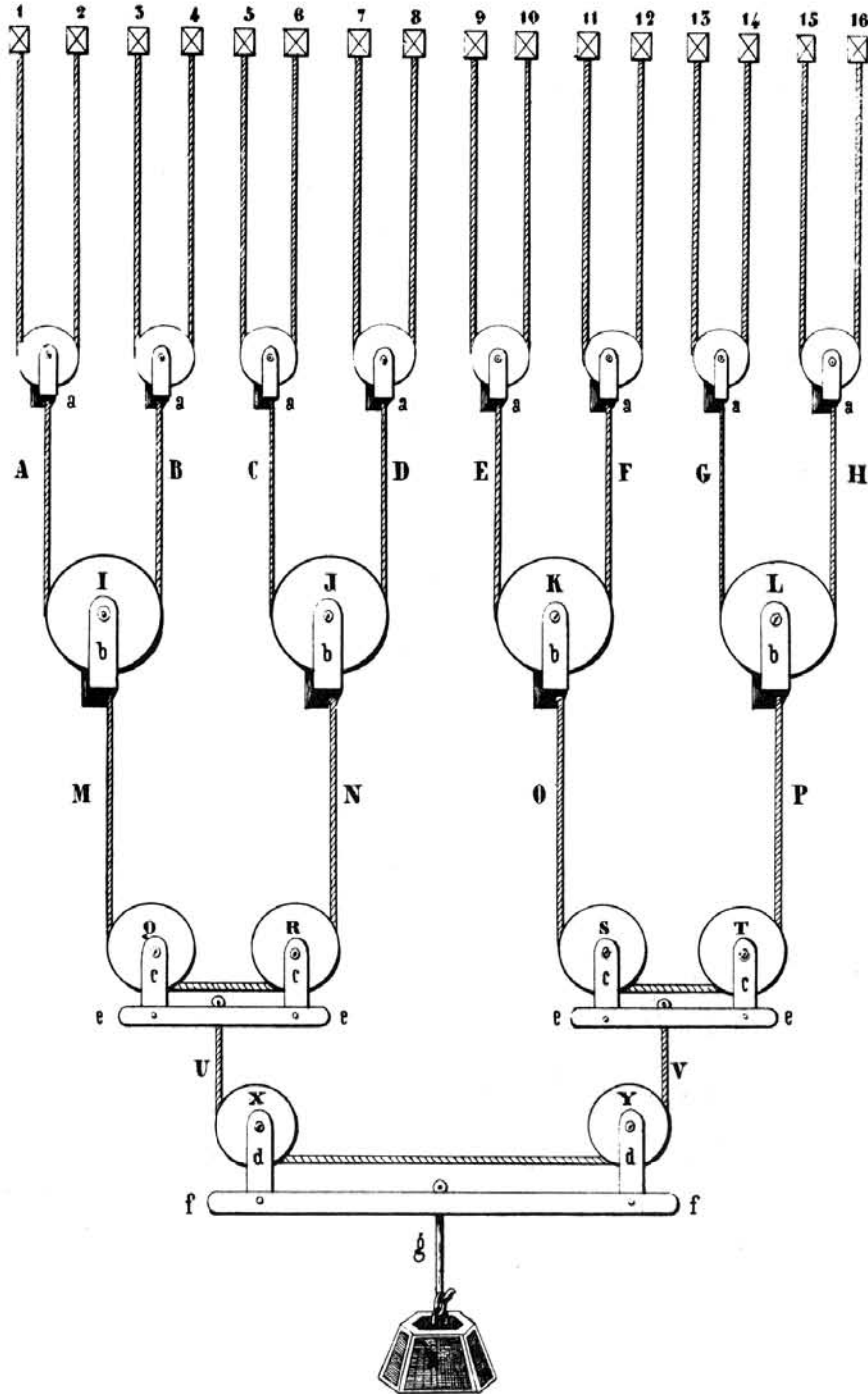
(A) Iron ball

(B) Plastic ball

(C) Wooden ball

(D) Rubber ball

Q59. If we double the weight (W), what happens to M, N, O, P in the figure?



- (A) M & N go up and O & P come down
- (C) M & N come down and O & P go up

- (B) M & O go up and N & P come down
- (D) None of these

Q60. Match the following:

Medium

- p) Air-borne
- q) Water borne
- r) Contact
- s) Wound

Disease

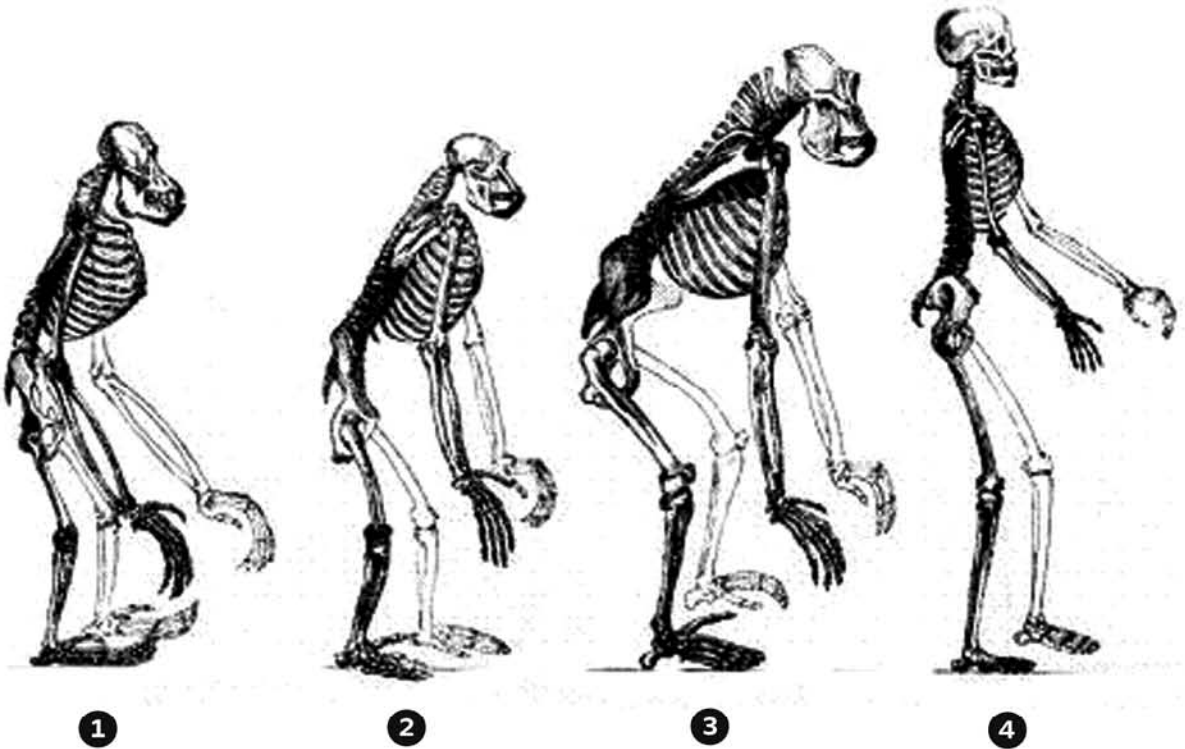
- 1. Tetanus
- 2. Tuberculosis
- 3. Cholera
- 4. Syphilis

- (A) p-4, q-3, r-2, s-1      (B) p-3, q-2, r-4, s-1      (C) p-2, q-3, r-4, s-1      (D) p-2, q-3, r-1, s-4

Q61. Identify the odd one out:

- (A) Clip                      (B) Pin                      (C) Staple                      (D) Punch

Q62. Match the number of each skeleton to its name:



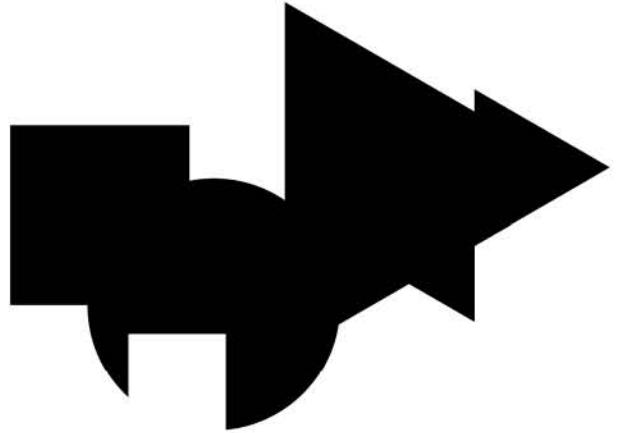
M-Man, G-Gorilla, O-Orangotang, C-Chimpanzee

- (A) M-4, G-3, O-2, C-1                      (B) M-3, G-4, O-2, C-1  
 (C) M-4, G-3, O-1, C-2                      (D) O-1, C-2, G-3, M-4

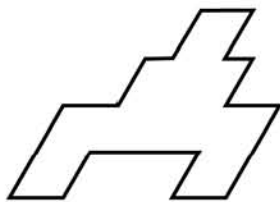
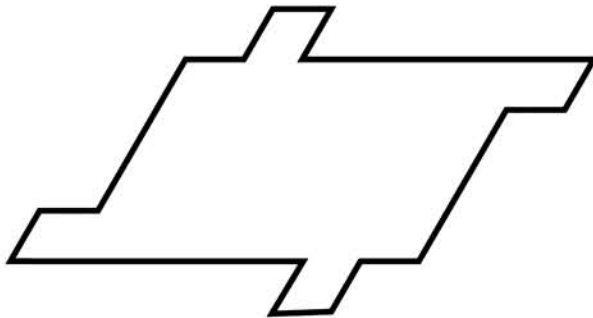
Question numbers 63 to 69 carry 2 marks each. Please read the question carefully and select your response from the options provided.

Q63. How many individual circles, triangles and squares can you identify in the image below?

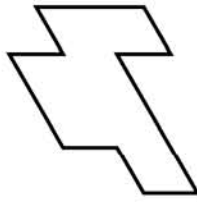
- (A) 1 Circle, 1 Square, 1 Triangle
- (B) 2 Circles, 2 Squares, 2 Triangles
- (C) 1 Circle, 2 Squares, 3 Triangles
- (D) None of these



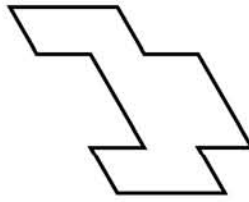
Q64. Which piece can be used multiple times to fill the shape below?



A



B



C



D

Q65. If we pull the points X and Y in both the cases given below, then which of the following statements is true?



- (A) The knot in case (1) loosens and the knot in case (2) tightens
  - (B) The knots in both cases are tightened
  - (C) The knots in both cases become loose
  - (D) The knot in case (1) tightens and the knot in case (2) loosens.
- Q66. In the question given below, two statements are labelled as Assertion (A) and Reason (R).  
 Assertion (A): In inflation there is increase in money-supply and the rise in the price level.  
 Reason (R): The rise in price level is due to shortage in supply of essential consumer goods.

In the context of two statements, which of the following is correct?

- (A) Both (A) & (R) are true and (R) is the correct explanation of (A)
  - (B) Both (A) & (R) are true, but (R) is not the correct explanation of (A)
  - (C) (A) is true, but (R) is false
  - (D) (A) is false, but (R) is true
- Q67. Given below are the average minimum and maximum temperatures of a city measured during the year:

Month	Min <sup>o</sup> C	Max <sup>o</sup> C
January	23	30
February	23	31
March	24	31
April	24	33
May	24	34
June	25	34
July	25	33
August	24	34
September	24	34
October	23	35
November	25	28
December	21	31

Identify the city:

- (A) Cape Town
- (B) Auckland
- (C) Singapore
- (D) Ahmedabad

Q68. A film director wants an actress for the lead role of 'Helen' who perfectly fits the description that appears in the original screenplay. He is not willing to consider actresses who do not resemble the character as she is described in the screenplay, no matter how talented they are. The screenplay describes 'Helen' as an average-sized, forty something redhead, with deep brown eyes, very fair skin, and a brilliant smile. The casting agent has four actresses in mind:

- Actress#1 is a stunning red-haired beauty who is 5'9" and in her mid-twenties. Her eyes are brown and she has an olive complexion.
- Actress#2 has red hair, big brown eyes, and a fair complexion. She is in her mid-thirties and is 5'5".
- Actress#3 is 5'4" and of medium build. She has red hair, brown eyes, and is in her early forties.
- Actress#4 is a blue-eyed red head in her early thirties. She's of very slight build and stands at 5'.

Select the right actress options for the director:

- (A) 1 and 2                      (B) 2 and 3                      (C) 1 and 4                      (D) 2 and 4

Q69. What is the common word that can be used together with all of the following words?

Blood, Cheese, Music, Moon

- (A) Red                      (B) Blue                      (C) Bone                      (D) None of these

**Questions 70 to 81 carry 0.75 marks each. Please read the question carefully and select your response from the options provided.**

*Study the given images carefully and answer the questions 70 to 73.*



**A**



**B**



**C**



**D**

Q70. Which image represents "all that looks good might not work"?

Q71. Which image represents the phrase "too much to handle"?

Q72. Which image represents the phrase "with or without you"?

Q73. Which image represents the phrase "too many cooks spoil the broth"?

Study the given images carefully and answer the questions 74 to 77.



A



B



C



D

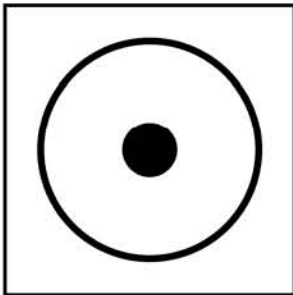
Q74. Which image represents the word 'classic'?

Q75. Which image represents the word 'fragile'?

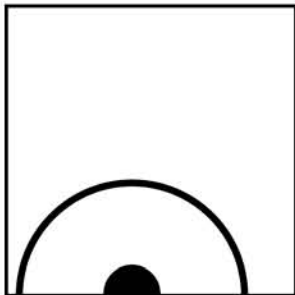
Q76. Which image represents the word 'fluid'?

Q77. Which image represents the word 'masculine'?

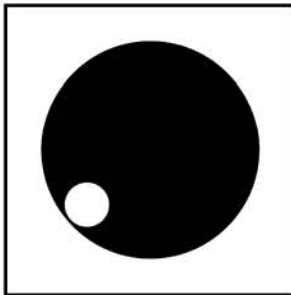
Study the given images carefully and answer the questions 78 to 81.



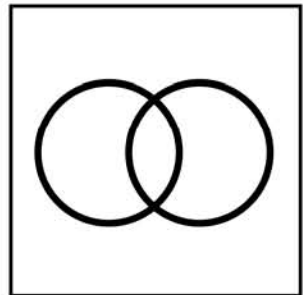
A



B



C



D

Q78. Which image represents the word 'stability'?

Q79. Which image represents the word 'power'?

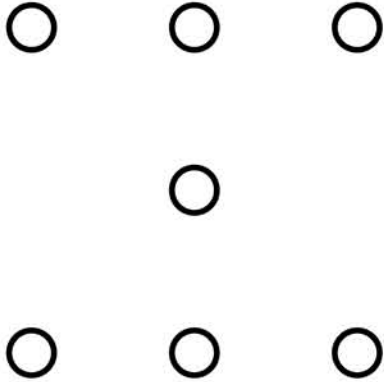
Q80. Which image represents the word 'possessive'?

Q81. Which image represents the word 'structure'?



Questions 82 to 83 carries 1.5 marks each.

Answer the questions 82 and 83 based on the image given below.



Q82. How many triangles can you form by joining the above group of dots so that 3 dots are left?

- (A) Six (B) Eight (C) Twelve (D) Twenty four

Q83. How many quadrilaterals can you form by joining the above group of dots?

- (A) Five (B) Six (C) Nine (D) Twelve

**Questions 84 to 88 has more than one correct answer and carries 0.8 marks each. Please read the question carefully and select the most correct option (only one) from the options provided.**

Q84. Complete the sentence:

She was .....

- (A) almost six feet tall. (B) the light of my life.  
(C) a doctor by profession. (D) emotionally very vulnerable.

Q85. Complete the sentence:

He was on a roller coaster.....

- (A) ride at the fair. (B) of emotions.  
(C) and he felt very scared. (D) with a group of friends.

Q86. Complete the sentence:

Failure is.....

- (A) very bad. No one should fail. (B) a representation of a person's abilities.  
(C) a sad experience. Try again. (D) an orphan with no takers.

Q87. Complete the sentence:

The Moon is .....

- (A) of cultural importance. (B) like a roti for the poor man.  
(C) a satellite of the earth. (D) a source of light at night.

Q88. Complete the sentence:

Brain is .....

- (A) a group of hundred billion cells. (B) a workshop.  
(C) an important part of the human body. (D) a fountain of dreams.

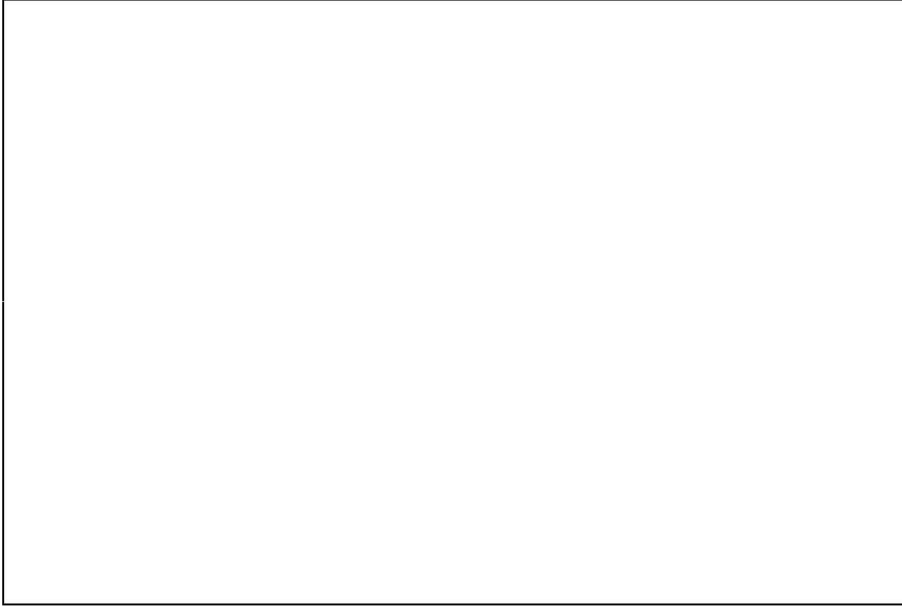
\*\*\*\*\* End of Part I \*\*\*\*\*



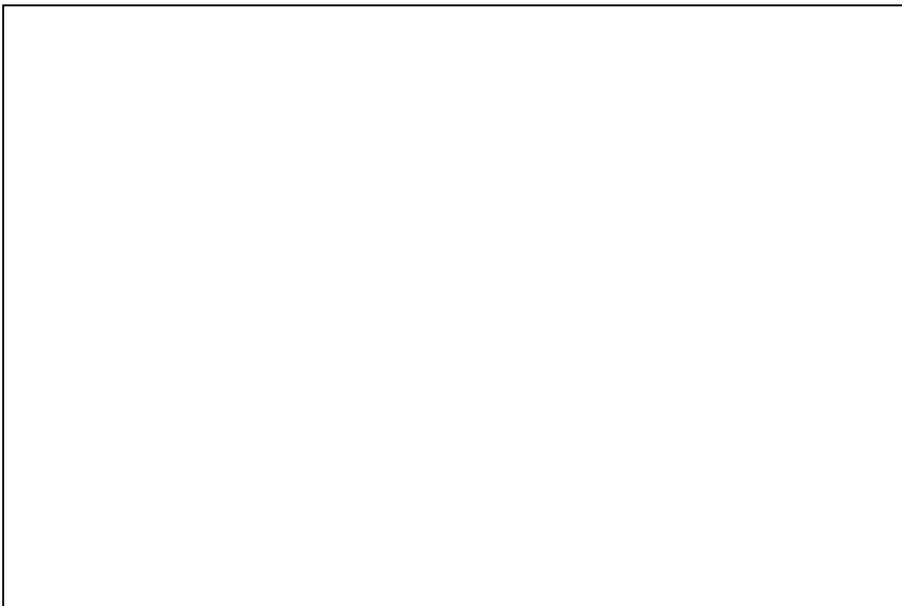


**PART-II. Question numbers 89 to 91 carry 10 marks each. Please read the questions carefully and answer in the space provided.**

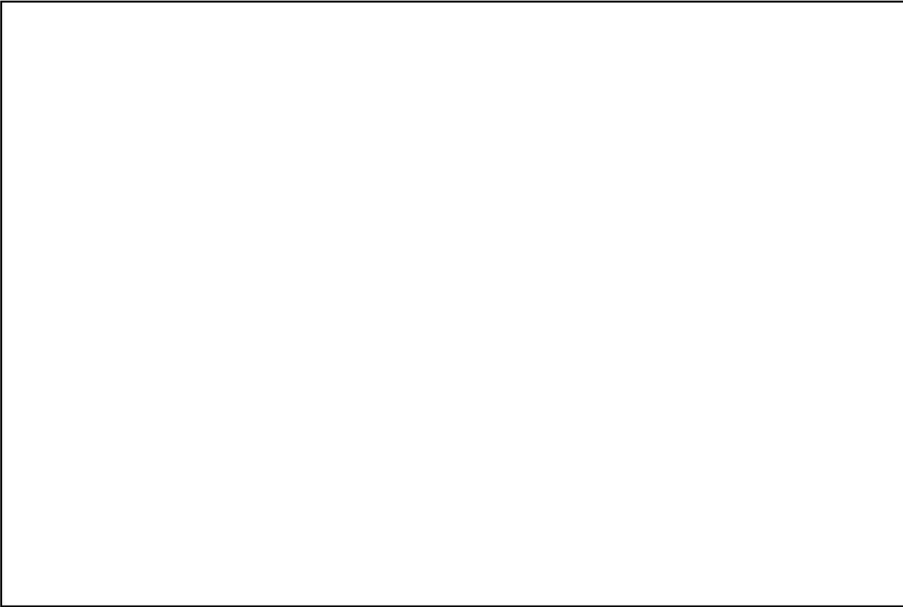
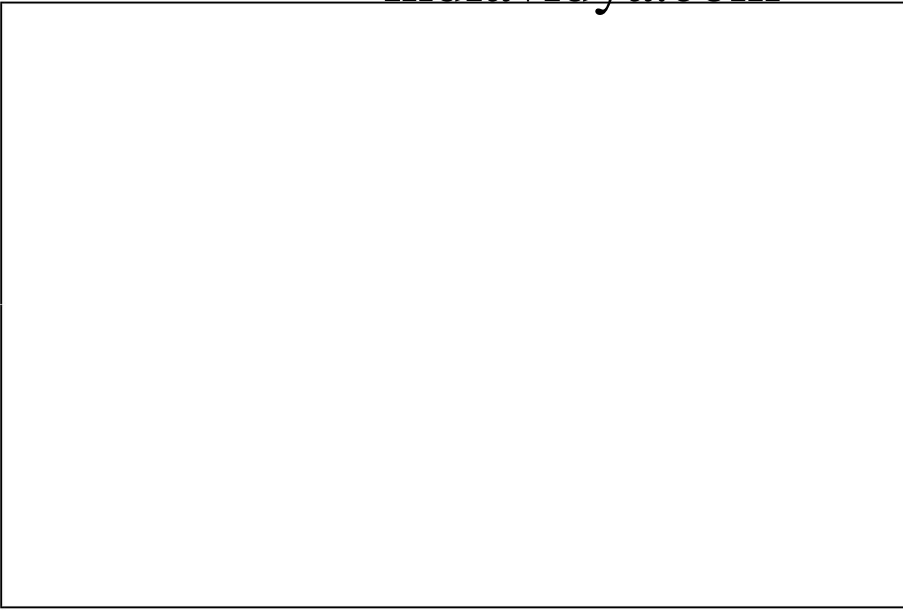
Q89. The water tap of the wash basin in a bathroom is leaking. It is mid-night and no professional help is available at that hour. Give five ideas to prevent water wastage and represent them through drawings with two-three lines of explanation each.

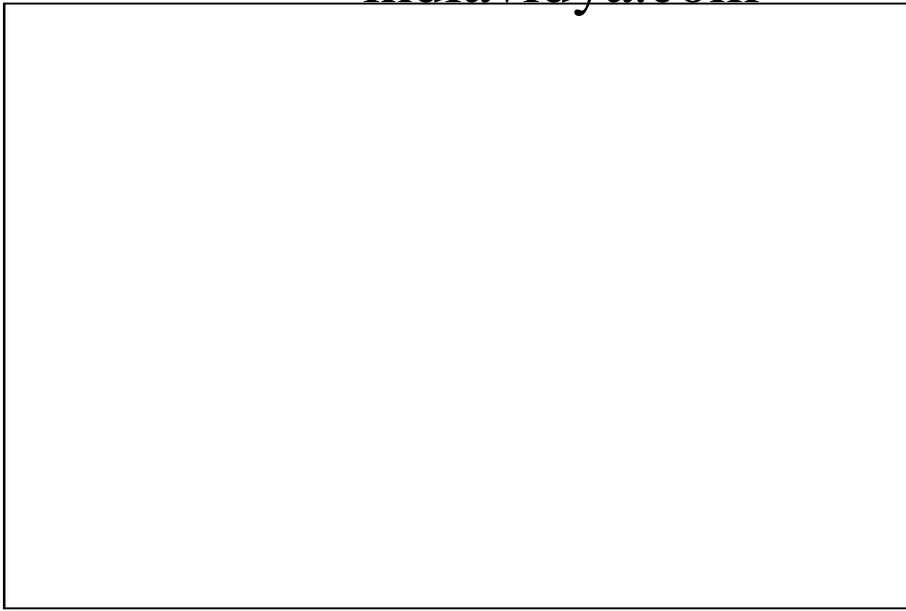


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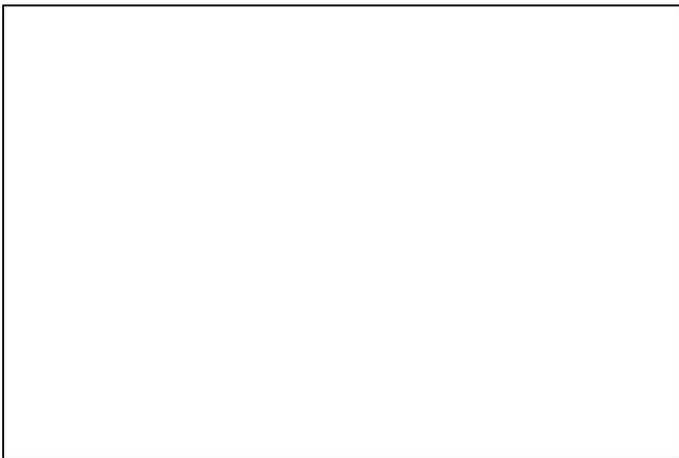
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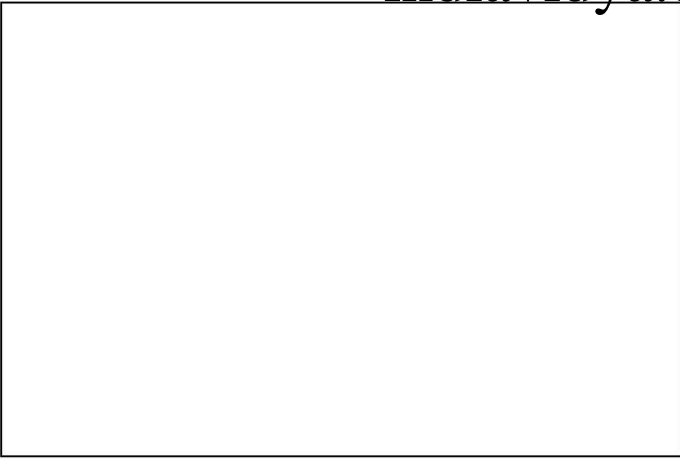


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Q90. "Once upon a time, monkeys had no long tails and elephants had very short trunks. Until *one day...*" Complete the story and represent the same in FIVE frames given below with a caption of not more than two lines for each frame.



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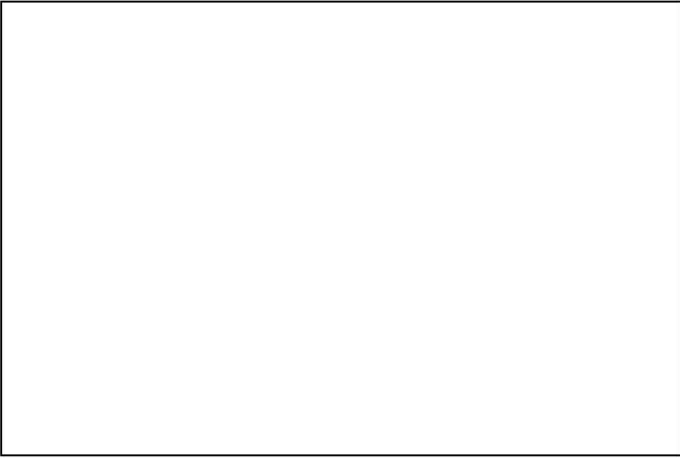
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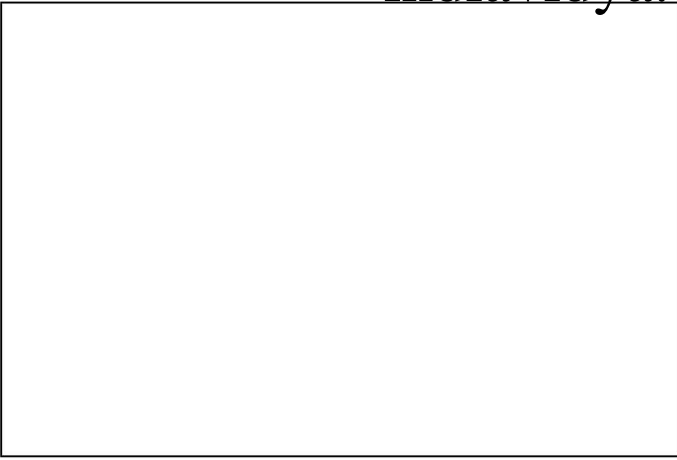
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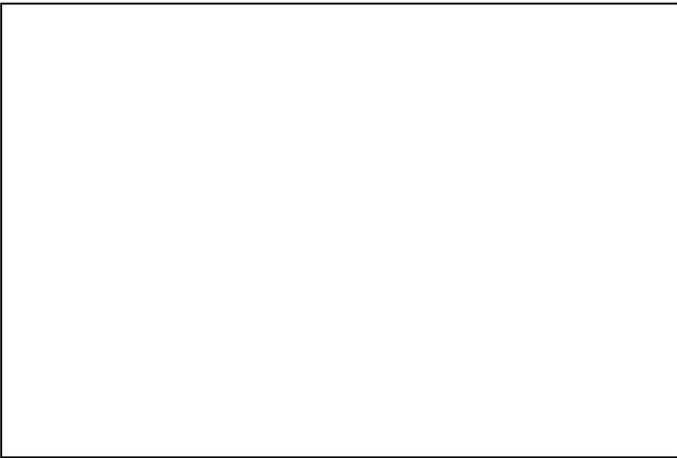
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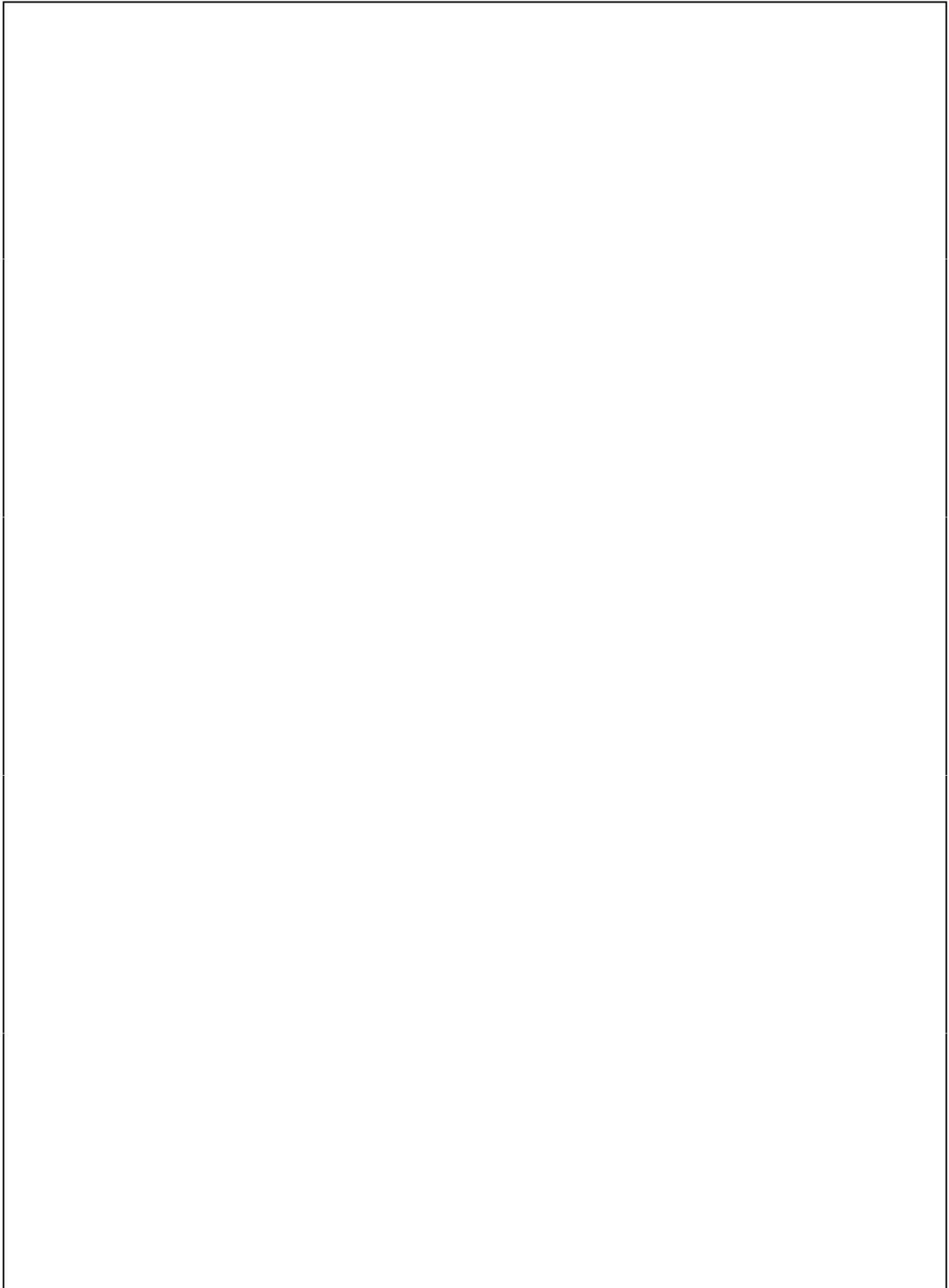
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Q91. Choose one of the three topics given below. Design a poster in Black and White only on the chosen topic. Give a caption to your poster.

- (i) Infant Mortality (ii) Rainwater harvesting (iii) Illiteracy



Caption.....

\* \* \* \* \* End of Part II \* \* \* \* \*

**PART-I. Questions 1 to 88 are multiple choice questions. The answers should be marked in the OMR answer sheet provided separately. Do not write your name anywhere in the booklet. This may lead to disqualification.**

**Question numbers 1 to 44 carry 0.5 marks each. Please read the questions carefully and select your response from the options provided.**

- Q1. With reference to your current location, identify the city, which is located most eastward?  
 (A) Singapore (B) Hongkong (C) Manila (D) Jakarta
- Q2. Which Indian sportsperson attained world rank number one (Singles title) in 2015?  
 (A) Saina Nehwal (B) Sania Mirza  
 (C) Jwala Gutta (D) Ashwini Ponappa
- Q3. What is the full form of EMI?  
 (A) Equated Monthly Installments (B) Equal Money Installment  
 (C) Equal Monthly Investments (D) Equated Money Investments
- Q4. If a human figure is standing in front of a full length rectangular concave mirror, how will her/his reflection look like?  
 (A) Taller and thinner (B) Shorter and fatter  
 (C) Taller and fatter (D) Shorter and thinner
- Q5. Name the states of the folk art forms below in their respective order:



I Madhubani



II Warli

- (A) Tamilnadu and Telangana respectively  
 (B) Bihar and Maharashtra respectively  
 (C) Orissa and Gujarat respectively  
 (D) Kerala and Karnataka respectively
- Q6. Which of the following does the term Corporate Social Responsibility (CSR) relate to?  
 (A) Ethical conduct (B) Environmental practices  
 (C) Human rights & employees (D) All these
- Q7. Refugees from which country migrated to Europe en masse in 2015?  
 (A) Serbia (B) Libya (C) Siberia (D) Syria

Q8. *"I believe in going with the flow. I don't believe in fighting against the flow. You ride on your river and you go with the tides and the flow. But it has to be your river, not someone else's. Everyone has their own river, and you don't need to swim, float, sail on theirs, but you need to be in your own river and you need to go with it. And I don't believe in fighting the wind. You go and you fly with your wind. Let everyone else catch their own gusts of wind and let them fly with their own gusts of wind, and you go and fly with yours."*

Which one of the following options best sums up the passage above?

- (A) Determination      (B) Self-esteem      (C) Decision Making      (D) Growth

Q9. Who is the creator of Amar Chitra Katha?

- (A) Premchand      (B) Baba Ram Dev      (C) Mohandas Pai      (D) Anant Pai

Q10. Which country recycles most of its garbage to produce electricity, and imports garbage from its neighbours?

- (A) Sweden      (B) Japan      (C) Switzerland      (D) Canada

Q11. Which of the materials listed below does not have Earth as the source?

- (A) Clay      (B) Metal      (C) Leather      (D) Plastic

Q12. *Cartography* is the study and practice of making

- (A) Cars.      (B) Maps.      (C) Artwork.      (D) Carts.

Q13. Air pollution can be of

- (A) Natural origin.      (B) Artificial or man-made origin.  
(C) Both A & B.      (D) None of these.

Q14. Select the right adjective for the word *RIVER*.

- (A) Labyrinthine      (B) Wolverine      (C) Serpentine      (D) Intertwine

Q15. The Jataka Tales are better known works of which literature?

- (A) Upanishads      (B) Sangam      (C) Jaina      (D) Buddhist

Q16. The rate of inflation in India is measured generally with respect to movement of

- (A) consumer price index.      (B) cost of living index of agriculture labour.  
(C) wholesale price index.      (D) money supply.

Q17. Apart from the light bulb, Thomas Edison is attributed to the invention of

- (A) Telegraph.      (B) Monograph.      (C) Phonograph.      (D) Seismograph.

Q18. Which country experienced an earthquake, a tsunami and a nuclear accident in March 2011?

- (A) Pakistan                      (B) China                      (C) Japan                      (D) India

Q19. Colours of Coriander and Cabbage fall under which colour schemes?

- (A) Split Complementary                      (B) Analogous  
(C) Complementary                      (D) Harmonious

Q20. Which of the following is considered among the four old world river valley cultures apart from Indus Valley, Egypt, and Yellow River Valley of China?

- (A) Mesoamerica                      (B) Mesopotamia  
(C) Andes                      (D) Byzantium

Q21. When you buy a mobile phone you look for the SAR value of a handset. SAR value is an indicator of Specific Absorption Rate of \_\_\_\_\_ to which human body is exposed to

- (A) Radio Frequency Electrostatic Field  
(B) Radio Frequency Electromagnetic Field  
(C) Microwave Frequency Bioelectric Field  
(D) Radioactive Electromagnetic Field

Q22. Fostering cultural collaboration is one of the objectives of which UN body?

- (A) UNICEF                      (B) UNIDO                      (C) UNESCO                      (D) UNO

Q23. Which astronomer first claimed that the earth, the moon and the other planets revolved around the sun?

- (A) Galileo Galilei                      (B) Nicolaus Copernicus  
(C) Ptolemy                      (D) Isaac Newton

Q24. The following picture depicts

- (A) remote crawler  
(B) hilly-biller space-walker.  
(C) stark lemon squeezer.  
(D) voyager 12.



Q25. The following drawing is the inside view of the Basilica of St. Maria Maggiore by Giovanni Batista Piranesi (1768). It is an example of



- (A) 2 point perspective drawing. (B) 3 point perspective drawing.  
 (C) 1 point perspective drawing. (D) None of these

Q26. Which shape will match the cross section of a Ladyfinger (vegetable)?

- (A) Octagon (B) Hexagon (C) Pentagon (D) Septagon

Q27. Select the odd one out:

- (A) Bimal Roy, Mrinal Sen, Satyajit Ray  
 (B) Ravindranath Tagore, Mahatma Gandhi, Bal Gangadhar Tilak  
 (C) Manto, Chugtai, Gulzar  
 (D) Shabana Azmi, Praseen Joshi, Sayeed Jaffery

Q28. What is the colour of a Black Box of a commercial aircraft?

- (A) Black (B) Green (C) Pink (D) Orange

Q29. The symbol © stands for

- (A) Rights of Control. (B) Registered Company Logo.  
 (C) Copyright. (D) Contact Information.

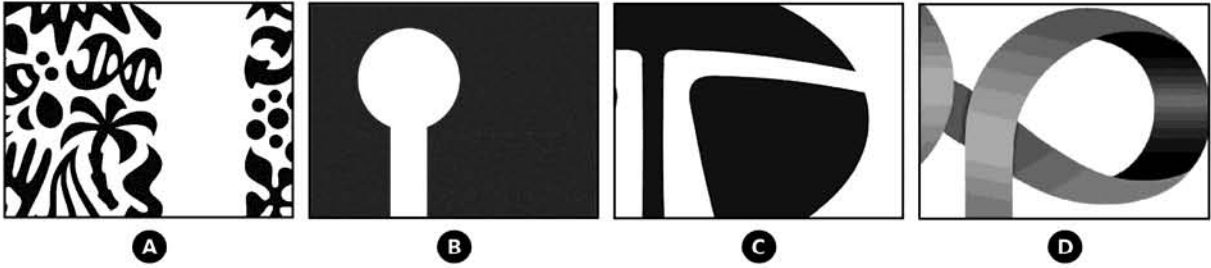
Q30. Google doodle pays tribute to which Indian personality in the following image?



- (A) Sudhir Tailang (B) Bal Thackeray (C) R K Laxman (D) Neelabh Banerjee

- Q31. Among the major processes in making a cloth, *Ginning* is a process of  
(A) harvesting ripped cotton bales. (B) cleaning and opening the cotton bales.  
(C) spinning the yarn. (D) removing the cotton seeds.
- Q32. What are the dates 9/11, 26/11 and 13/11 known for?  
(A) Earthquakes (B) Terrorist Attacks  
(C) Tsunamis (D) Deaths of famous personalities
- Q33. The Industrial Revolution that took place in Europe around 1750 A.D. began in which of the following countries?  
(A) Germany (B) France (C) Italy (D) England
- Q34. Who is considered to be the Father of India's Atomic Energy programme?  
(A) Raja Ramanna (B) Homi Bhabha  
(C) Vikram Sarabhai (D) Dr. A P J Abdul Kalam
- Q35. The death of which rationalist Kannada writer triggered a spate of protests by the Indian literary, artistic, film making and scientific community in 2015?  
(A) Govind Pansare (B) Channabasam  
(C) Narendra Dabholkar (D) Dr. M.M.Kalburgi
- Q36. Which airport in India became fully solar powered in 2015?  
(A) Cochin International Airport (B) Bengaluru International Airport  
(C) Chennai International Airport (D) Hyderabad International Airport
- Q37. Which of the following statements is false?  
(A) Mahabharata is narrated by Ved Vyas (B) Valmiki authored Ramacharitmanas  
(C) Meghadootam is composed by Kalidasa (D) Yayati is written by Girish Karnad
- Q38. An example of Interactive Voice Response System (IVRS) that is used in our day-to-day life is  
(A) The Telephone Enquiry Service. (B) The Cloud Computing Service.  
(C) The Web Server Service. (D) None of these
- Q39. Which of the following is the first silent feature film made in India?  
(A) Alam Ara by Ardeshir Irani (B) Shakuntala by Suchet Singh  
(C) Devdas by Naresh Mitra (D) Raja Harishchandra by Dadasaheb Phalke
- Q40. Which is the most abundantly available fossil fuel in India?  
(A) Natural Gas (B) Coal (C) Petroleum (D) Biogas

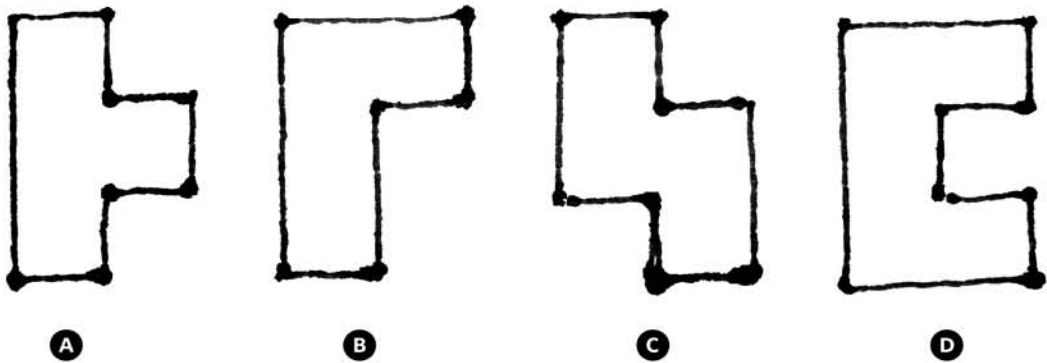
Study the given images below, which are selected parts of known logos/symbols. Based on this, answer questions 41 to 44.



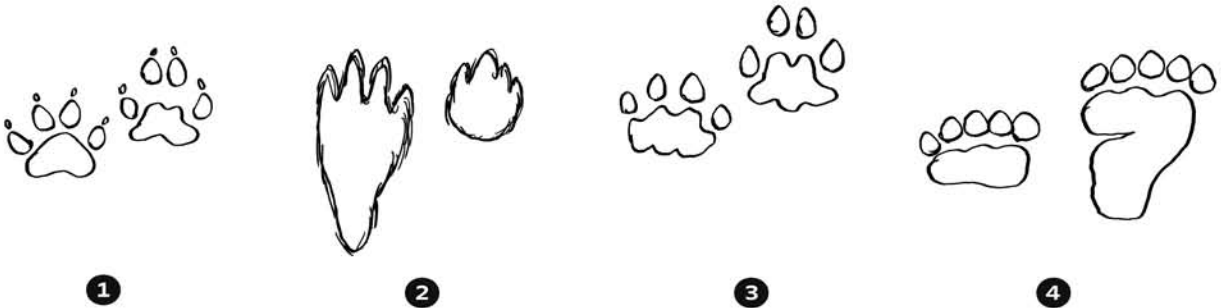
- Q41. Identify the image which refers to the company/organization related/associated with finance.
- Q42. Identify the image which refers to the company/organization associated with consumer Goods.
- Q43. Identify the image which refers to the company/organization associated with surface Décor.
- Q44. Identify the image which refers to the company/organization associated with transport.

**Question numbers 45 to 62 carry 1.0 marks each. Please read the questions carefully and select your response from the options provided.**

Q45. Identify the odd one out:



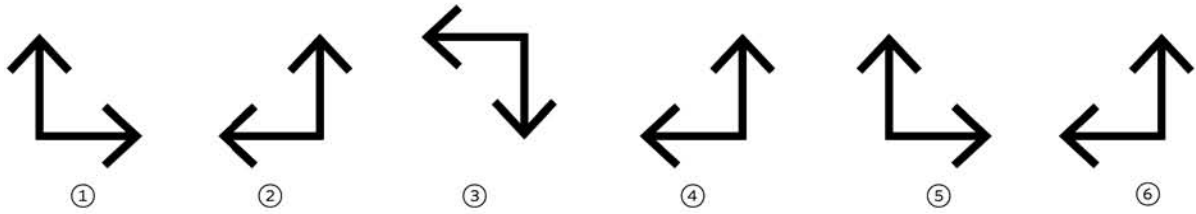
Q46. Identify the sequence of footprints in the images given below:



- (A) Rabbit, Fox, Cat, Man  
 (C) Fox, Bear, Cat, Rabbit

- (B) Fox, Rabbit, Cat, Bear  
 (D) None of these

Q47. Identify the odd one out:



(A) 1

(B) 2

(C) 4

(D) 6

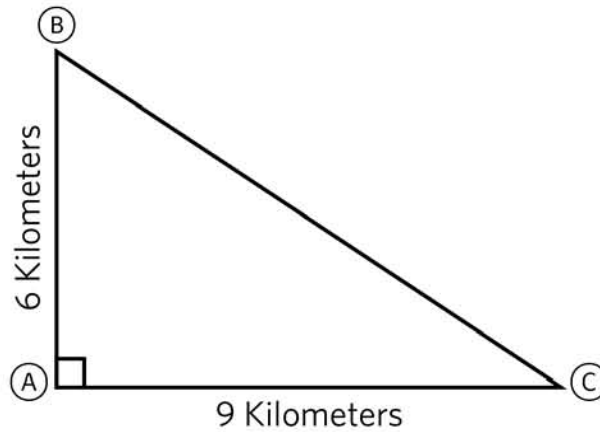
Q48. In the figure below, cycling directly from point B to point C, rather than from point B to point A and then from point A to point C, would save approximately how many kilometers?

(A) 3

(B) 2

(C) 5

(D) 4



Q49. Select the most appropriate caption that describes the image below:

(A) Leaving the past behind

(B) It's time to catch up

(C) Catch me if you can

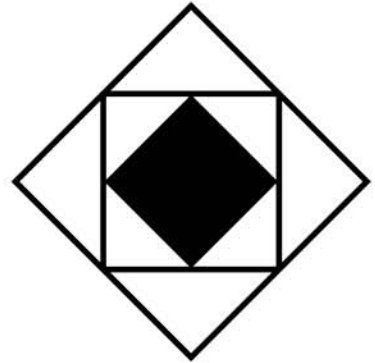
(D) Time is running out



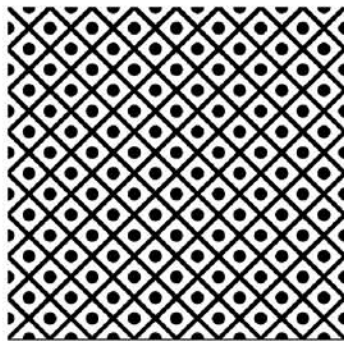


Q50. The figure below shows a square inscribed in a square, which in turn is inscribed in another square. What is the probability that a point selected at random from the interior of the largest figure that will fall within the shaded region?

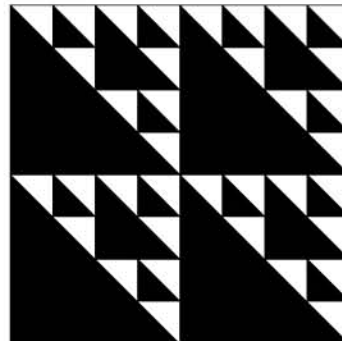
- (A)  $1/5$
- (B)  $1/4$
- (C)  $1/3$
- (D) None of these



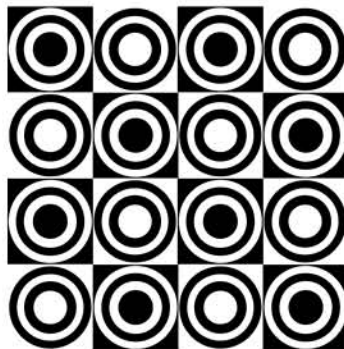
Q51. Identify the odd one out:



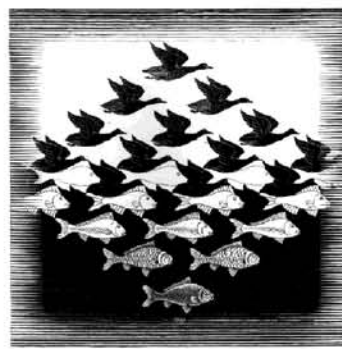
A



B

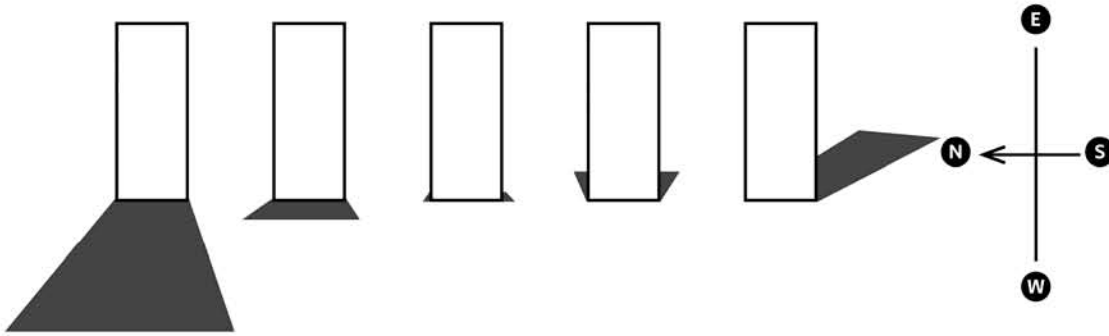


C



D

Q52. Study the shadows cast in the image below and identify the right sequence from left to right.

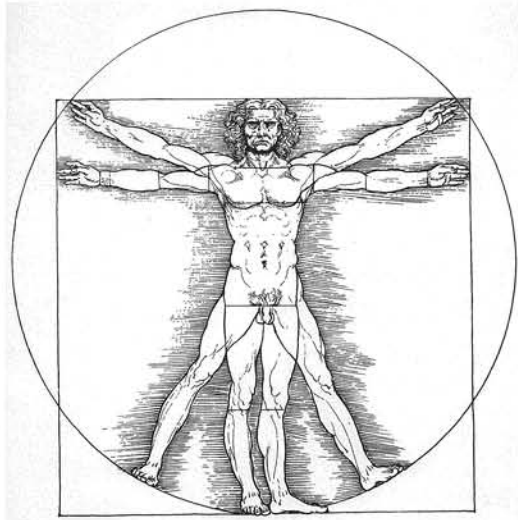


- (A) 5 7 2 3 7
- (C) 4 6 1 5 8

- (B) 6 12 2 4 6
- (D) 6 9 12 3 6

Q53. Vaastu-Purusha and Da Vinci's 'Vitruvian Man' are examples of?

	WEST	NORTH								
H T R O N	Roga	Naga	Mukh	Bhalla	Soma	Bhujaga	Adis	Dit	Sikhi	E A S T
	Papa Yaksha	Rudra						Apaha	Parjanya	
	Soehana	Raja yakshina		Prithvi Bharana				Apevasta	Jantaha	
	Asura		Brahma	Brahma	Brahma	Brahma			Indra	
W E S T	Jaladhi paha		Mitra	Brahma	Brahma	Brahma	Aryama		Surya	E A S T
	Pushpa tanta		Brahma	Brahma	Brahma				Saty	
	Gugriva		Vibhuda		Vivswat		Sapta		Bhrisah	
	Douvanika	Indra						Savitra	Akasha	
S O U T H	Pipu paha	Mriga	Bhalingraja	Gandharva	Yama	Bhask sata	Vitada	Pusha	Vaahu	S O U T H
	WEST	SOUTH							EAST	



- (A) Tenets of directions
- (C) Tenets of proportion

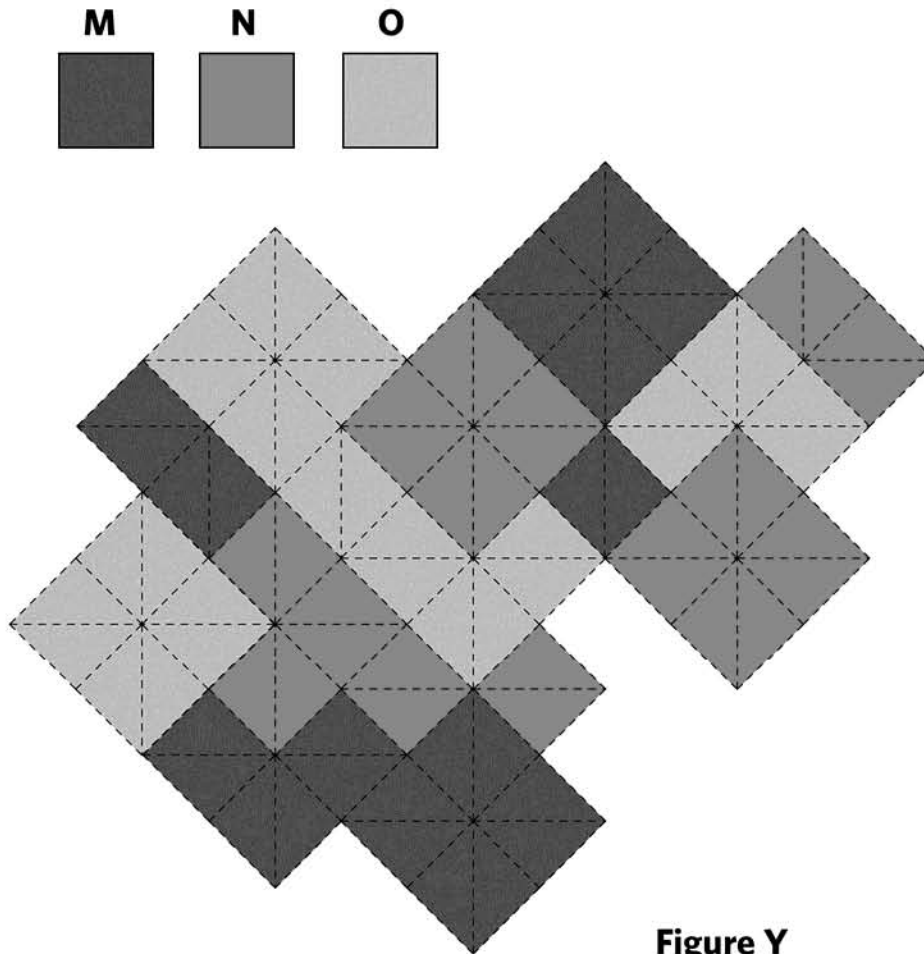
- (B) Tenets of buildings
- (D) Tenets of spinning

Q54. These symbols are found on the left hand side of the Indian currency notes of Rs.100/-, Rs.500/- and Rs.50/- respectively. What do they signify?



- (A) Printing Press code
- (B) Decorative motifs
- (C) Tactile denotation for the visually impaired
- (D) Currency authentication

Q55. Squares of three grey values (M, N and O) are combined to create Figure Y. Squares of which grey value(s) have the maximum combined surface area. The grey values are as follows:



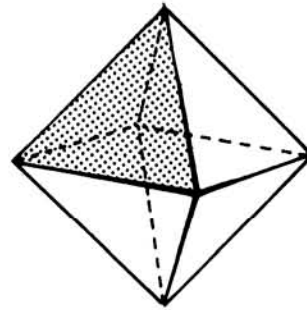
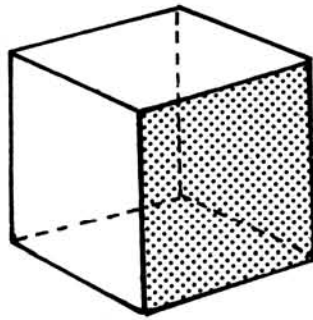
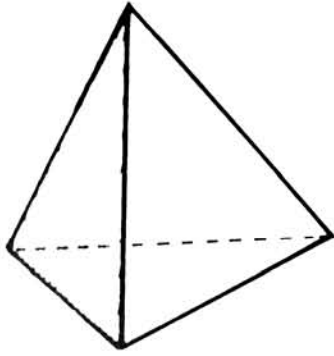
**Figure Y**

- (A) Only M
- (B) Only N
- (C) Both N and O
- (D) Both M and N

Q56. A general assumption says that in storytelling, the main character is driven by two kinds of desires — conscious desires and unconscious desires. Even if the character's conscious desires are met by the end of the story, the story seems to be incomplete if the unconscious desires aren't met. In your opinion which statement comes closest to the idea of unconscious desires?

- (A) Unconscious desires are the ones that the main character might not be aware about
- (B) Unconscious desires are the ones that are more important than the conscious desires
- (C) The desires of the main character might change as the story progresses
- (D) All these

Q57. Images given below are for your reference. How many faces and edges does an Icosahedron have?

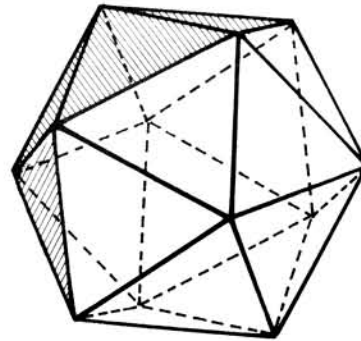


Tetrahedron: 4 faces & 6 edges

Cube: 6 faces & 12 edges

Octahedron: 8 face & 12 edges

- (A) 20 faces & 30 edges
- (B) 18 faces & 24 edges
- (C) 20 faces & 20 edges
- (D) 16 faces & 24 edges



Q58. Match the following:

Plastic

Used for making

- p) Melamine
- q) Teflon
- r) Bakelite
- s) PVC

1. Electric fillings
2. Cups & Crockery
3. Rain coats
4. Non-stick utensils

- (A) p-2, q-1, r-4, s-3
- (C) p-3, q-2, r-1, s-4

- (B) p-2, q-4, r-1, s-3
- (D) p-3, q-1, r-2, s-4

Q59. Mrs. Gurpreet Kaur took a taxi to meet her three friends for lunch. They were waiting for her outside the restaurant when she pulled up in the car. She was so excited to see her friends that she left her handbag in the taxi. As the taxi pulled away, she and her friends took notice of the number plate so they would be able to identify the car when they called the taxi company.

The four women seem to agree that the number plate begins with the letters GJ.

Three of them seem to agree that the number plate ends with the numbers 123.

Three of them seem to think that the 3<sup>rd</sup> letter is X. Three of them think that the 4<sup>th</sup> letter is K.

The four license plate numbers below represent what each of the four women think and saw. Which one is most likely the license plate number of the taxi?

- (A) GJXY123
- (B) GJYK123
- (C) GJXK123
- (D) GJXX123

Q60. A gardener plants flowers in the following sequence Carnations, Marigold, Daffodils, Jasmine and Tiger Lilies. If the gardener planted 48 flowers, which flower did he plant last?

- (A) Carnation (B) Marigold (C) Daffodils (D) Tiger Lily

Q61. *“The animals themselves are incapable of demanding their own liberation, or of protesting against their condition with votes, demonstrations or bombs. Human beings have the power to continue to oppress other species forever, or until we make this planet unsuitable for living beings. Will our tyranny continue proving that we really are the selfish tyrants that the most cynical of poets and philosophers have always said we are? Or will we rise to the challenge and prove our capacity for genuine altruism by ending our ruthless exploitation of the species in our power, not because we recognize that our position is morally indefensible? The way in which we answer this question depends on the way in which each one of us, individually, answers it”.*

In your opinion, which word best summarizes the passage above?

- (A) Cynicism (B) Animal rights  
(C) Civilisation (D) Ethics and moral philosophy

Q62. A person sitting in an open car moving at constant velocity throws a ball vertically upwards in the air. If the effect of air resistance is neglected, the ball will fall

- (A) exactly in hands of the person. (B) outside the car.  
(C) in the car behind the person. (D) in the car ahead of the person.

**Question numbers 63 to 69 carry 2 marks each. Please read the questions carefully and select your response from the options provided.**

Q63. How many square tiles, each with a perimeter of 64 inches, must be used to completely cover a bathroom floor with a width of 64 inches and a length of 128 inches?

- (A) 32 tiles (B) 48 tiles (C) 64 tiles (D) 96 tiles

Q64. What is the common word that can be used together with all of the following words?

Chocolate, Truth, Squash

- (A) Edible (B) Brown (C) Bitter (D) None of these

Q65. Select the right sequence of language in which the word Design is written below:

DESIGN **ವಿನ್ಯಾಸ** डिज़ाइन **ವ್ಯವಹರಣೆ** ডিজাইন **सङ्ग्राहीन** ডিজাইন

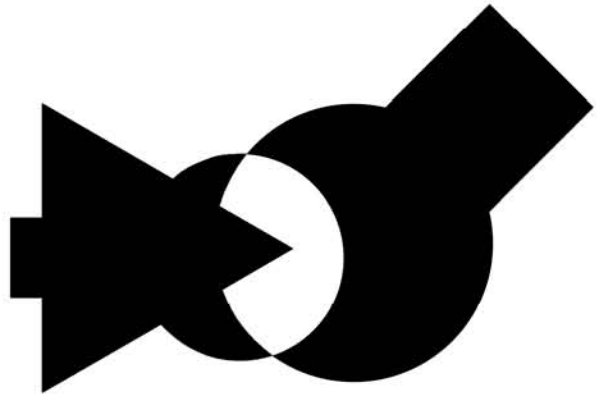
- (A) English Gujarati Hindi Tamil Kannada Bengali Punjabi  
(B) English Kannada Hindi Tamil Gujarati Punjabi Bengali  
(C) English Tamil Hindi Punjabi Kannada Bengali Gujarati  
(D) English Kannada Punjabi Gujarati Tamil Hindi Bengali

Q66. In a *Departmental Store*, the *Apparel* section is located to the right of *Bakery* section which is located on the right side of *Cosmetics* section. If the *Dairy Products* section is in front of *Cosmetics* section and *Electronics* section is in front of *Apparel* section, which one of the following is true?

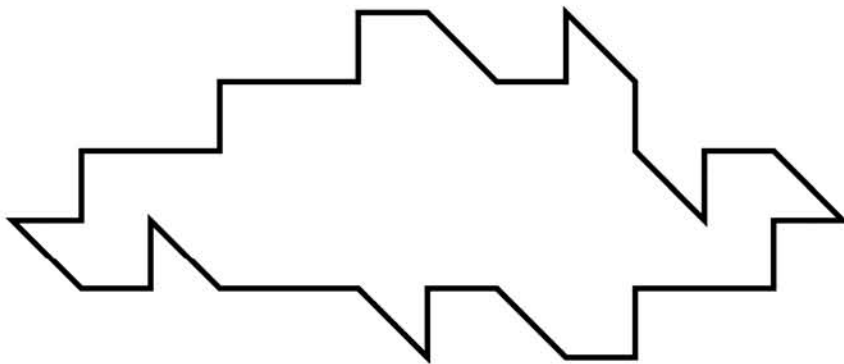
- (A) The *Dairy Products* section is on the left of *Electronics* section
- (B) The *Cosmetics* section is on the left of *Apparel* section
- (C) The *Cosmetics* section is on the right of *Apparel* section
- (D) The *Dairy Products* section is one the right of *Electronics* section

Q67. Identify the number of individual circles, triangles and squares from the image below:

- (A) 1 Circle, 2 Squares, 1 Triangle
- (B) 2 Circles, 2 Squares, 1 Triangle
- (C) 1 Circle, 1 Square, 2 Triangles
- (D) None of these



Q68. Which piece can be used multiple times to fill the shape below?



**A**



**B**



**C**



**D**

Q69. Match the following mathematical expressions with the images given below

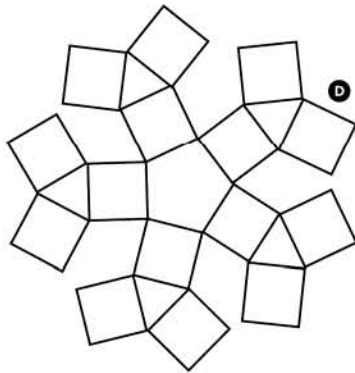
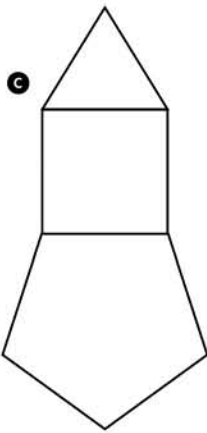
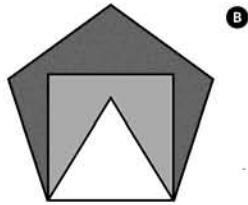
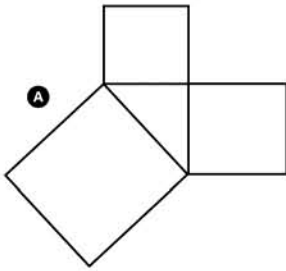
(i)  $3+4+5$

(ii)  $5 - 4 - 3$

(iii)  $3^2 + 4^2 = 5^2$

(iv)  $4 \times 3 \times 5$

Images



(A) A(iii), B(ii), C(i), D(iv)

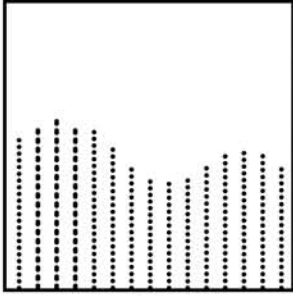
(C) A(iii), B(ii), C(iv), D(i)

(B) A(ii), B(iii), C(i), D(iv)

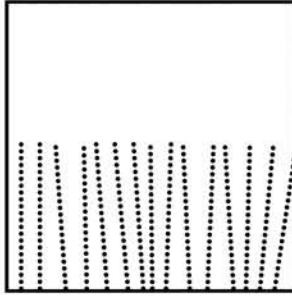
(D) A(iii), B(i), C(ii), D(iv)

Question numbers 70 to 81 carry 0.75 marks each. Please read the questions carefully and select your response from the options provided.

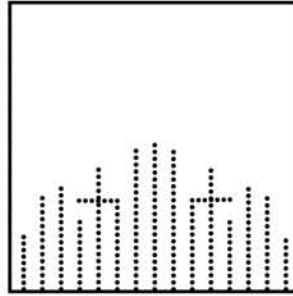
Study the images below and answer questions 70 to 73.



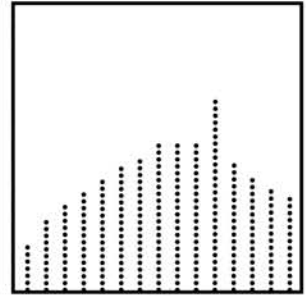
A



B



C



D

Q70. Which image represents the word 'symmetry'?

Q71. Which image represents the word 'emphasis'?

Q72. Which image represents the word 'rhythm'?

Q73. Which image represents the word 'movement'?

Study the images below and answer question 74 to 77.



A



B



C



D

Q74. Which image represents the word 'aggressive'?

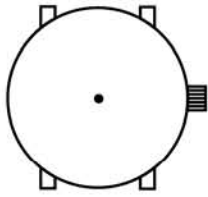
Q75. Which image represents the word 'fluid'?

Q76. Which image represents the word 'flamboyant'?

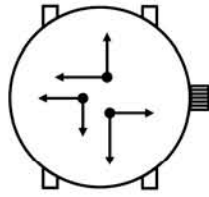
Q77. Which image represents the word 'feminine'?



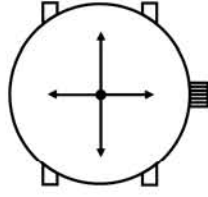
Study the images below and answer question 78 to 81.



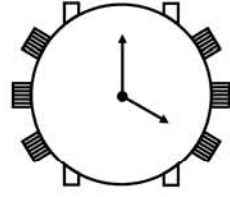
**A**



**B**



**C**



**D**

Q78. Which image represents the phrase ‘which way to go’?

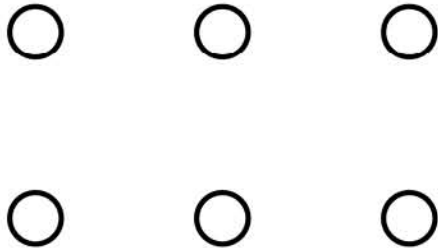
Q79. Which of the following images represents the phrase ‘many possibilities coexists’?

Q80. Which of the following images represents the phrase ‘overloaded with burden’?

Q81. Which of the following images represents the word ‘frozen’?

**Question numbers 82 and 83 carry 1.5 marks each.**

*Answer the questions based on the image given below:*



Q82. How many triangles can you form by joining the above group of dots so that 3 dots are left?

- (A) Six                      (B) Eight                      (C) Twelve                      (D) Twenty four

Q83. How many quadrilaterals can you form by joining the above group of dots?

- (A) Five                      (B) Six                      (C) Nine                      (D) Twelve

**Questions 84 to 88 have more than one correct answer and carry 0.8 marks each. Please read the questions carefully and select the most correct option (only one) from the options provided.**

Q84. Complete the sentence:

She was .....

- (A) almost six feet tall.                      (B) the light of my life.  
 (C) a doctor by profession.                      (D) emotionally very vulnerable.

Q85. Complete the sentence:

He was on a roller coaster.....

(A)ride at the fair.

(C) and he felt very scared.

(B) of emotions.

(D) with a group of friends.

Q86. Complete the sentence:

Failure is.....

(A)very bad. No one should fail.

(C) a sad experience. Try again.

(B) a representation of a person's abilities.

(D) an orphan with no takers.

Q87. Complete the sentence:

The Moon is .....

(A)of cultural importance.

(C) a satellite of the earth.

(B) like a roti for the poor man.

(D) a source of light at night.

Q88. Complete the sentence:

The day I left my hometown, I was.....

(A)thinking about my action plan.

(C) feeling blue.

(B) emotionally depressed.

(D) on my own.

\* \* \* \* \* End of Part I \* \* \* \* \*





**PART-II.** Question number 89 to 91 carry 10 marks each. Please read the questions carefully and answer in the space provided.

Q89. Read the following scenarios:

1. **A glass** that is half filled goes in search of water to fill itself.
2. **A circle** wakes up one day to find it has no option but to share its space with a triangle.
3. **A little girl** meets a lioness who is lost trying to find her way out of the intimidating city.

Choose any one scenario and write down three challenges that the first character (highlighted in **bold**) might face and also write solutions for each of the three challenges in the space provided.

The scenario chosen:

Challenge 1.....  
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Solution .....  
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Challenge 2.....

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Solution .....

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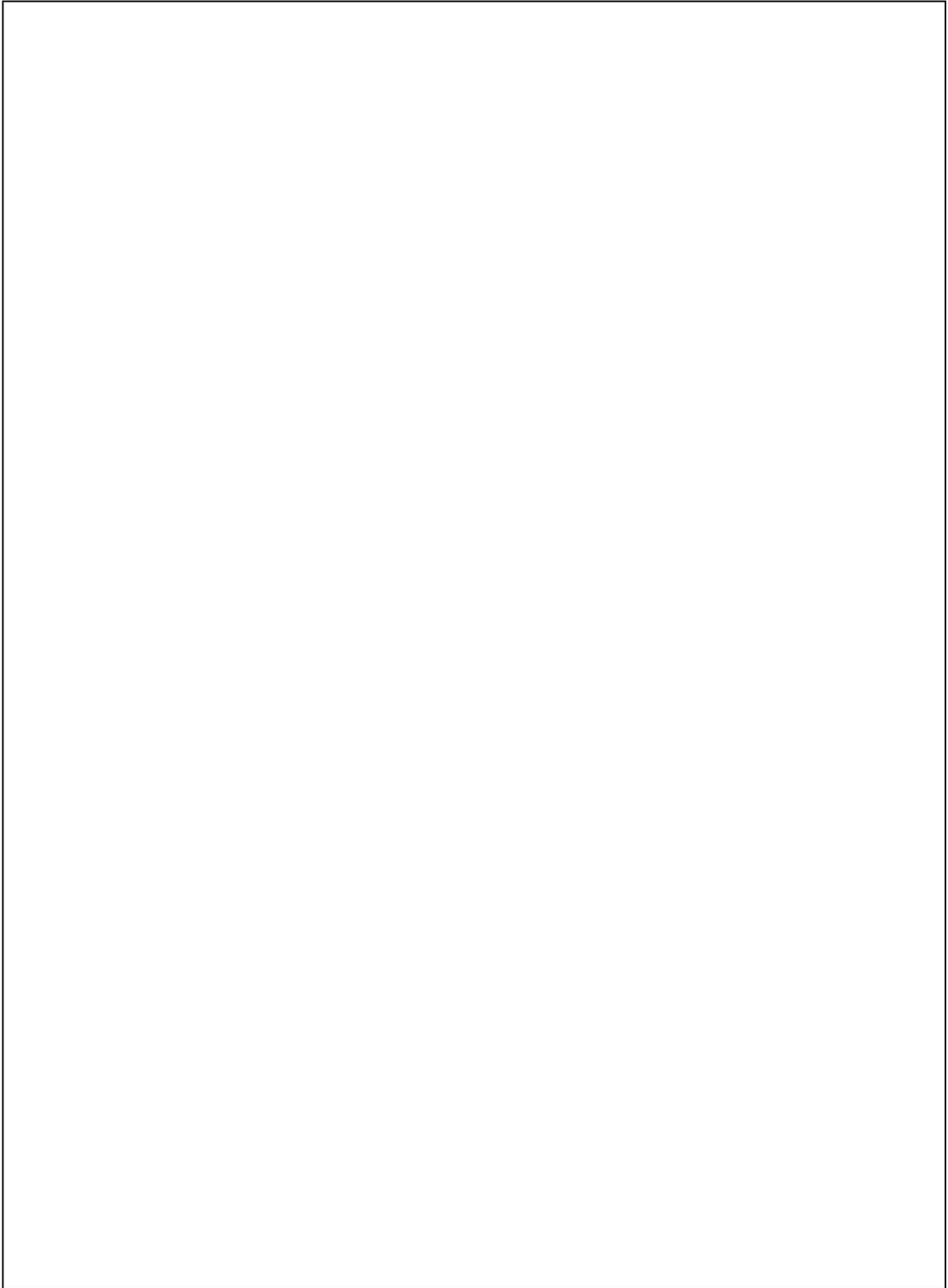
Challenge 3.....

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Solution .....

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Q90. In the given space below sketch a poster promoting healthy diet among the youth. Your poster must include a burger and a tortoise. Give an appropriate title in English, of less than six words.

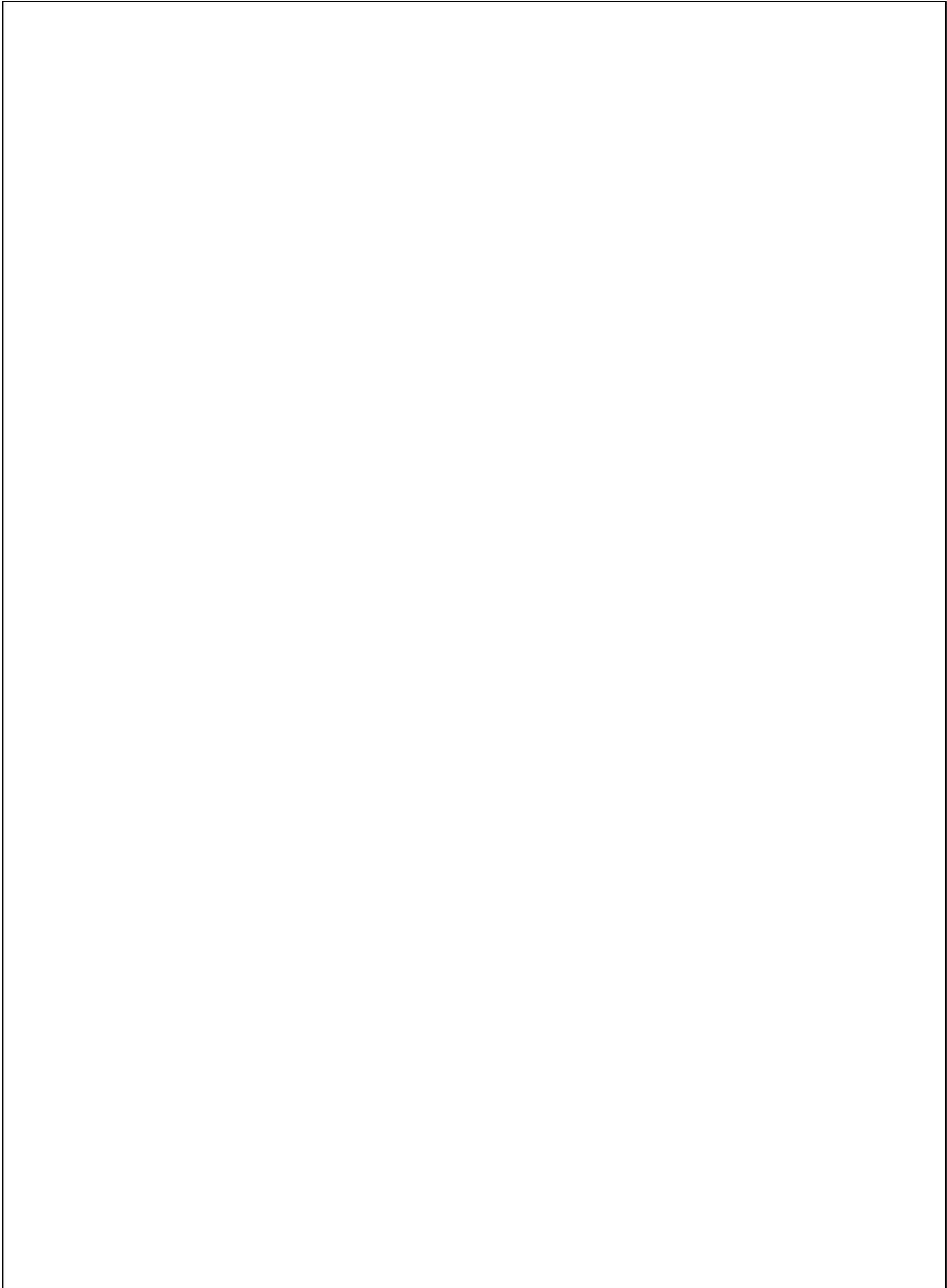


Title .....

Q91. Read the following scenario:

*“A creature that is part human, part an endangered species (plant or animal) and part automobile, and who is unable to decide whether to travel into the past or future”.*

Visualize and draw the above scenario in a ‘single frame’ given below.



\* \* \* \* \* End of Part II \* \* \* \* \*