

UNIVERSITY OF MUMBAI
DEPARTMENT OF COMPUTER SCIENCE

PG DIPLOMA IN DIGITAL COMPOSITING & VISUAL EFFECTS

ENTRANCE TEST

Name of the Candidate: _____ Seat No.: _____

Time: 2 hours

Date: _____

SECTION – A (Total Marks: 50)

Instructions:

- 1) Section A contains multiple choice questions, each question carries **2 marks**.
 - 2) There is no negative marking.
 - 3) Please put a tick against the right option, multiple ticks are not valid.
 - 4) Use of Calculator is allowed.
 - 5) Submit the question paper at the end of the session to the supervisor
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- 1) Which of the following is larger than $\frac{3}{5}$?
a) $\frac{1}{2}$ b) $\frac{39}{50}$ c) $\frac{7}{25}$ d) $\frac{3}{10}$ e) $\frac{59}{100}$
- 2) What is a percent of b divided by b percent of a?
a) a b) b c) 1 d) 10 e) 100

3-4: For the following, find the next term in the series

- 3) 7, 14, 28, 56,
a) 120 b) 84 c) 49 d) 86
- 4) 1, 5, 13, 25
a) 29 b) 45 c) 41 d) 32
- 5) Gavaskar's average in his first 50 innings was 50. After the 51st innings, his average was 51. How many runs did he score in his 51st innings.(supposing that he lost his wicket in his 51st innings)
a) 1 b) 50 c) 51 d) 101
- 6) Out of 80 coins, one is counterfeit. What is the minimum number of weightings needed to find out the counterfeit coin?
a) 4 b) 80 c) 79 d) None
- 7) If $s(a)$ denotes square root of a, find the value of $s(12+s(12+s(12+ \dots \text{upto infinity}$.
a) Infinity b) 4 c) 12 d) cannot be calculated

- 8) The median of following data: 30,34,26,28,42,43,24
 a) 28 b) 42 c) 30 d) 60
- 9) A rectangular plate with length 8 inches, breadth 11 inches and thickness 2 inches is available. What is the length of the circular rod with diameter 8 inches and equal to the volume of the rectangular plate?
 a) 3.5 inches b) 8 inches c) 2.5 inches d) 88 inches
- 10) A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 % gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain, he would lose Rs. 10 in the bargain. The amount paid by him was Rs. _____ for the horse and Rs. _____ for the cart
 a) Cost price of horse: Rs. 200 & Cost price of cart: Rs. 200
 b) Cost price of horse: Rs. 200 & Cost price of cart: Rs. 400
 c) Cost price of horse: Rs. 400 & Cost price of cart: Rs. 200
 d) None of the above
- 11) A fast typist can type some matter in 2 hours and a slow typist can type the same in 3 hours. If both types combine, in how much time will they finish?
 a) 50 min b) 1 hr 12 min c) 1 hr 15 min d) 2 hr 12 min
- 12) A bag contains 3 red balls, 4 white balls and 7 black balls. The probability of drawing a red or black ball is:
 a) $\frac{5}{7}$ b) $\frac{2}{7}$ c) $\frac{3}{7}$ d) $\frac{4}{7}$
- 13) $\log(\tan 1^\circ) \cdot \log(\tan 2^\circ) \cdot \log(\tan 3^\circ) \cdot \dots \cdot \log(\tan 89^\circ) = ?$
 a) 0.935 b) 1 c) 0 d) 0.5
- 14) Eight friends Harsha, Fakis, Balaji, Eswar, Dhinesh, Chandra, Geetha, and Ahmed are sitting in a circle facing the center. Balaji is sitting between Geetha and Dhinesh. Harsha is third to the left of Balaji and second to the right of Ahmed. Chandra is sitting between Ahmed and Geetha and Balaji and Eshwar are not sitting opposite to each other. Who is third to the left of Dhinesh?
 a) Fakis b) Balaji c) Geetha d) Eswar
- 15) How big will an angle of one and a half degree look through a glass that magnifies things three times?
 a) $\frac{1}{6}$ degrees b) $\frac{1}{4}$ degrees c) $\frac{1}{3}$ degrees d) $\frac{1}{2}$ degrees
- 16) A tennis marker is trying to put together a team of four players for a tennis tournament out of seven available. Males - a, b and c; females - m, n, o and p. All players are of equal ability and there must be at least two males in the team. For a team of four, all players must be able to play with each other under the following restrictions:
 -b should not play with m,
 -c should not play with p,
 -and a should not play with o.
 Which of the following statements must be false?
 a) b and p cannot be selected together
 b) c and o cannot be selected together
 c) c and n cannot be selected together. d) None of the above.

17-19: Which of the following statements drawn from the given statements are correct?

- 17) All watches sold in that shop are of high standard. Some of the HMT watches are sold in that shop.
- a) All watches of high standard were manufactured by HMT.
 - b) Some of the HMT watches are of high standard.
 - c) None of the HMT watches is of high standard.
 - d) All HMT watches are Sub Standard in that shop.
- 18) All men are vertebrates. Some mammals are vertebrates.
- a) All men are mammals
 - b) All mammals are men
 - c) Some vertebrates are mammals.
 - d) None
- 19) All boiling water bubbles. Some boiling water is salty.
- a) All salty things bubble.
 - b) Some salty things bubble.
 - c) Some boiling water bubble.
 - d) All boiling water is salty.

20-21: Choose the correct verbal Analogy:

20) TRIANGLE: QUADRILATERAL

- a) rectangle : octagon
- b) cone : cube
- c) pentagon : hexagon
- d) plane : solid
- e) Regular: symmetrical.

21) CENSORSHIP: INFORMATION

- a) cultivation : erosion
- b) philanthropy : generosity
- c) frugality : constraint
- d) sampling : measurement
- e) sanitation : disease

22-23: In the following Questions, out of the four alternatives choose the 1 which is the synonyms of the word given:

22) Juvenile

- a) Unsophisticated b) distinctive c) constrained d) conspicuous

23) Precipitate

- a) Lament b) quell c) aggravate d) degrade

24-25: Choose the Correct Alternative

24) What does RAM stand for

- a) Read only Access.
- b) Random Access Memory.
- c) Random Access Momentum.
- d) Read Access Memory.

25) THE TOTAL NUMBER OF CHARACTERS IN THE ASCII CODE?

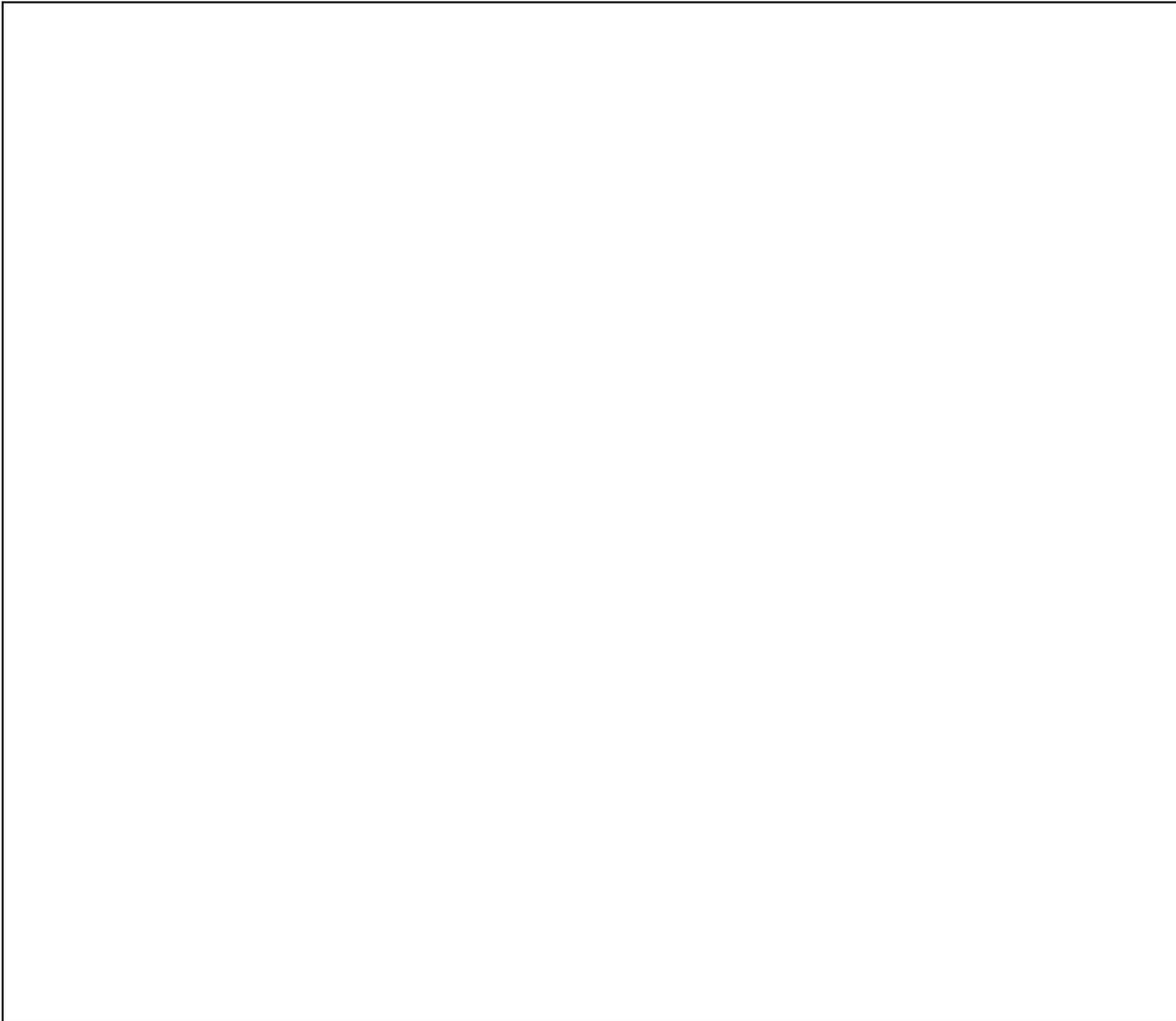
- A) 126 B) 256 C) 258 D) 128

SECTION – B (Total Marks: 50)

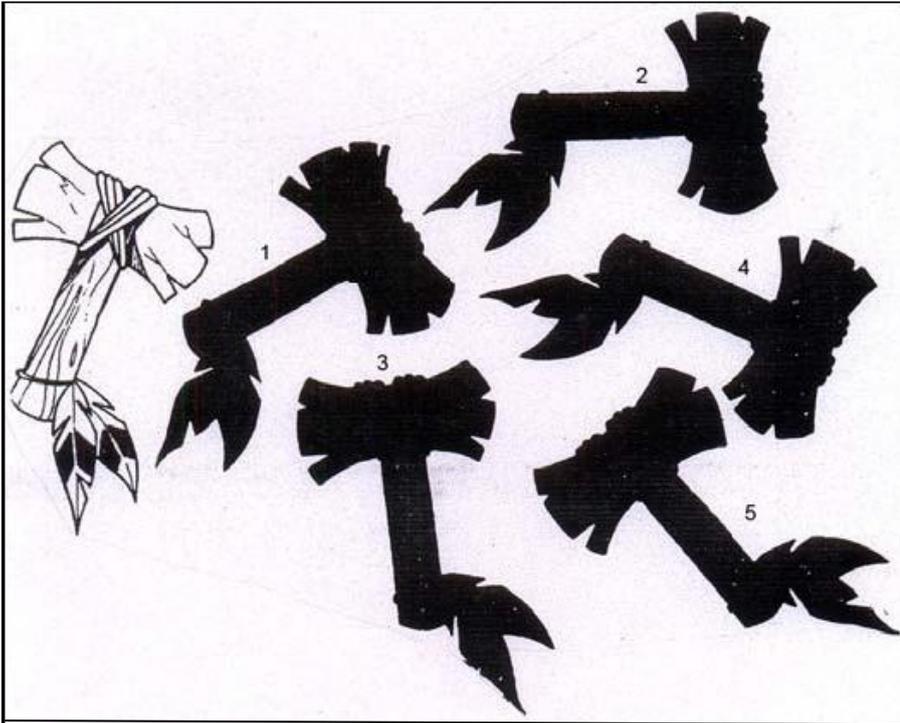
Instructions:

- 1) Attempt all Questions.
 - 2) Each question carries **5** marks each
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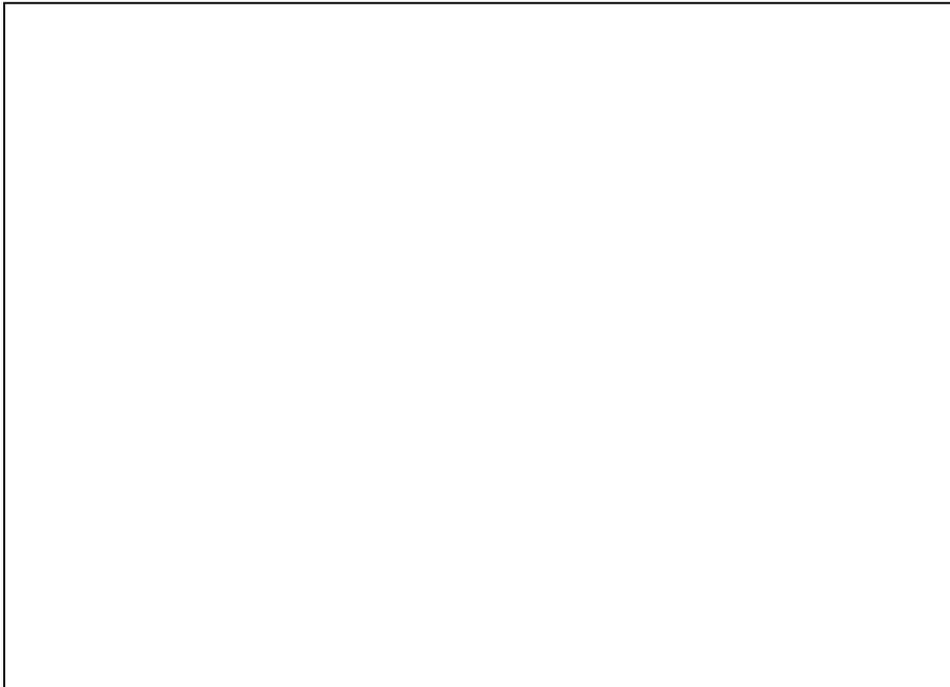
- 1) Draw (any one) of the following with HB pencil.
 - 1) Runway Model
 - 2) Railway platform in one point perspective
 - 3) Fruit Basket along with a water Jug on a dining table



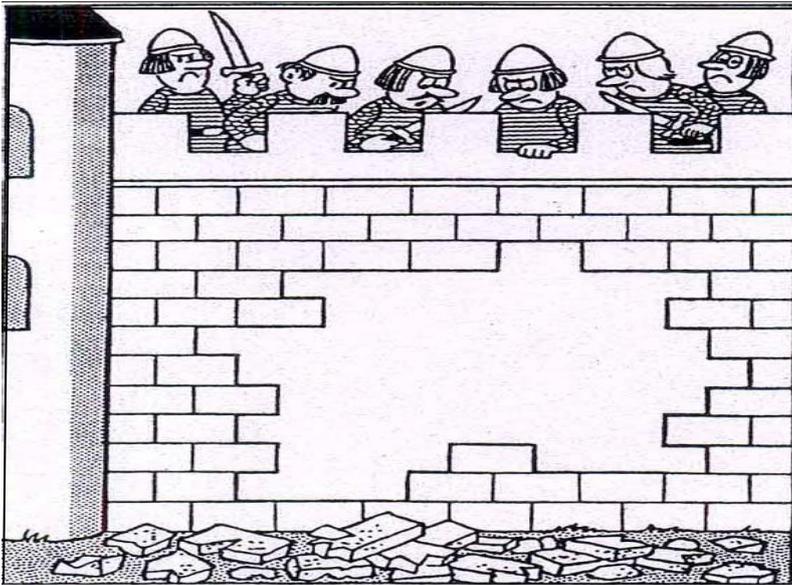
2) Which Shadow matches the given Diagram?



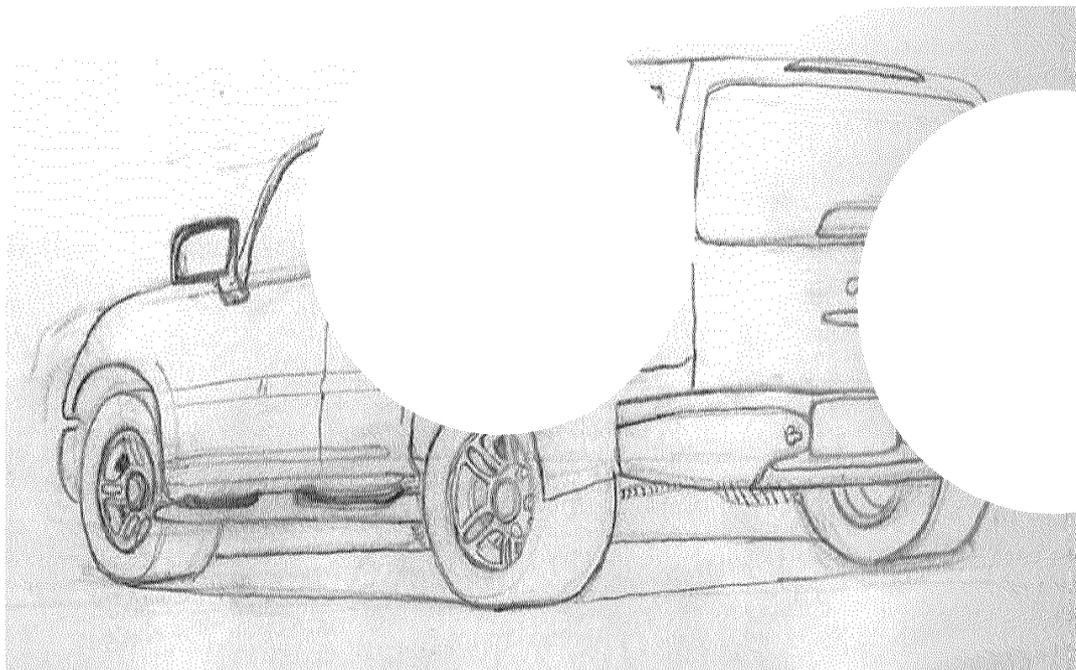
3) Design a Launching calendar for the year 2009 with the theme of Global Warming for the month August.



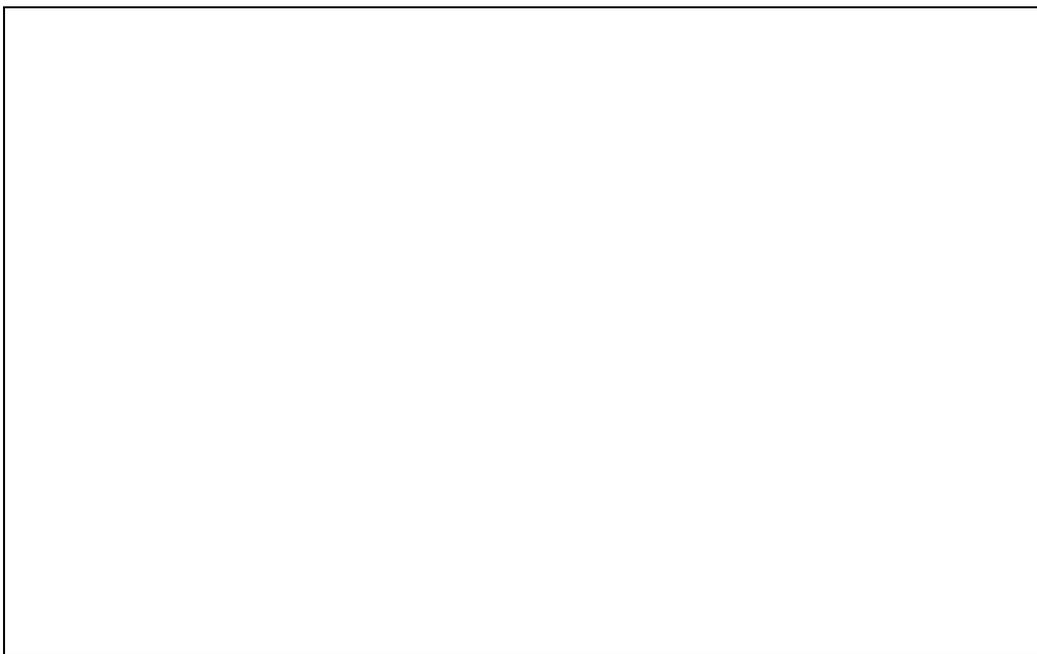
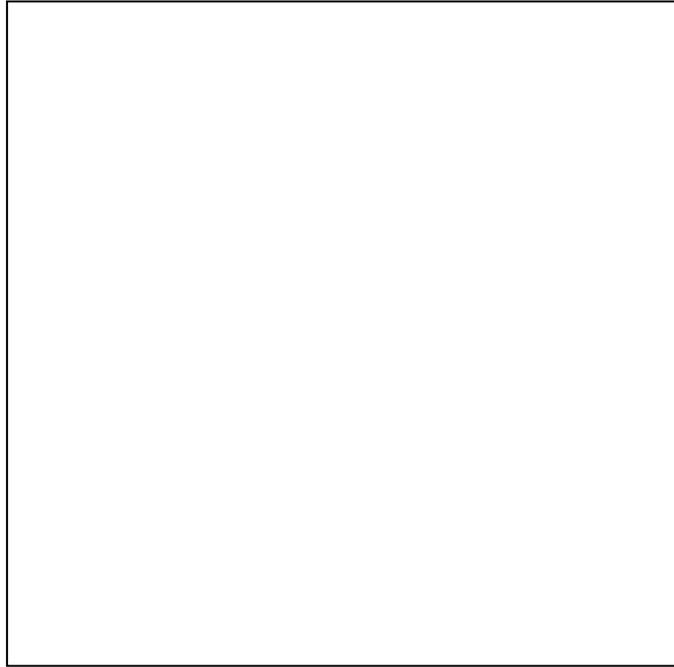
- 4) There has been an assault on the fortress and the enemy has made a large hole in the wall. With the help of a pen see how many bricks are required to build the wall again? It will be advantageous if you would use a ruler.



- 5) Complete The figure



6) Draw two figures to represent an object that can be used horizontally and vertically For example Badminton



7) Draw (any one) caricature of the following famous people.

- a) Charlie Chaplin
- b) Mother Teresa
- c) Dr. Manmohan Singh

8) You are given logos on the left, name the object related to the object and draw the object.

a)



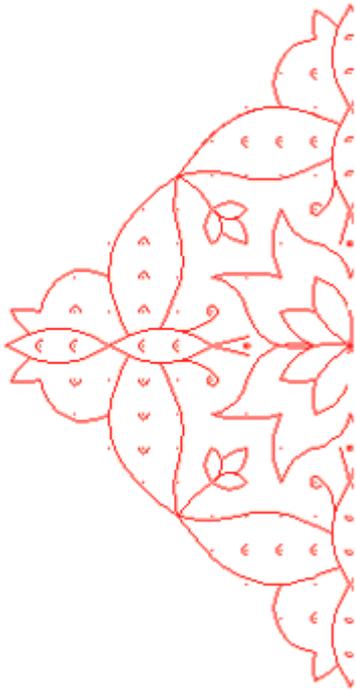
b)



9) Draw a sketch (any one) for the following sentence.

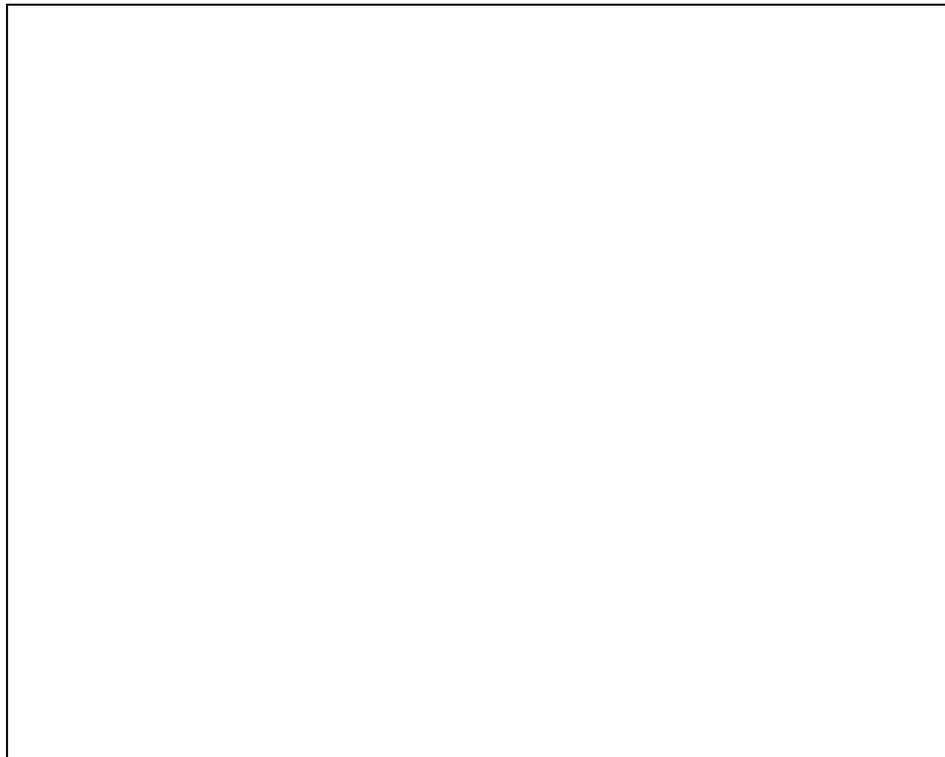
- a) Happiness is felt by making other people happy
- b) The day without sunshine is like, you know, night
- c) When you are down and out, something always turns up- usually the noses of your friends

10) In below, given diagram is half, so create its symmetry (another part) by your self imaginations.



11) Draw the cartoon image of any one of the following

- a) Rabbit
- b) Mouse
- c) Lizard



12) Set the right numbers into given blank table according to the following image.



