



Achiever's Test Series 2012

UNDERGRADUATE PROGRAMME IN DESIGN (B. Des)

Set I - GENERAL ABILITY TEST

Time Allowed: 2 hrs.

Max Marks: 100

This test comprises of the following sub-tests:

- (1) Quantitative Ability
- (2) Communication Ability
- (3) English Comprehension
- (4) Analytical Ability
- (5) Business Domain Test
- (6) Thematic Apperception Test

- (I) Each question carries one mark.
- (II) For each incorrect answer, 0.25 marks will be deducted.
- (III) Answers are required to be marked only on the OMR/ICR Answer-sheet, which will be provided separately.
- (IV) For each question, four alternative answers have been provided out of which only one is correct.
- (V) Darken the appropriate circle in the Answer-sheet by using ball pen only on the best alternative amongst (a), (b), (c) or (d).

----- PERSONAL INFORMATION -----

(IMPORTANT INSTRUCTION: USE BLACK BALL PEN ONLY TO FILL UP THE FORM)

STUDENT'S NAME: _____

FATHER'S NAME: _____

ENROLLMENT NO. _____

QUESTION PAPER SET NO. _____

MOBILE NO. _____

EXAM DATE: _____

COURSE: B. Des B. F. Tech

CANDIDATE'S SIGNATURE

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(Question 1-15) Do as directed

- 1) The salaries of Puja, Rachna & Pankhuri are in the ratio 1:2:3. The salary of Rachna and Pankhuri together is Rs. 15,000/-. What is Pankhuri's salary?

a) Rs. 6000	b) Rs. 9000
c) Rs. 4500	d) None of these

- 2) The least square number exactly divisible by 8,12,15 and 20 is ?

a) 900	b) 120
c) 3600	d) None of these

- 3) In Lazeezpur, 40% of the population is women. If the no of women is 16,000. Find the total population of Lazeezpur ?

a) 4,00,000	b) 40,000
c) 36,000	d) 4,000

- 4) If a/b is equal to $2/5$. Find $(5a+3b)/(5a-3b)$.

a) 5	b) 1
c) $a/2b$	d) -5

- 5) When 60% of a number is added to 60, the result is the number again. What is the number?

a) 150	b) 100
c) 60	d) None of these

- 6) The average of five numbers is 7. The average of the first three numbers is 6. Find the average of last two numbers.

a) $8/5$	b) $12/7$
c) $2/17$	d) $17/2$

- 7) The average age of 20 girls in a class is 12 years. if the teacher's age is included the average increases by 2. What is the teacher's age in years

a) 40	b) 54
c) 24	d) 42

- 8) 20% of a number is 30. What is the number?

a) 140	b) 150
c) 180	d) $2/3$

- 9) Mr. Verma is four times the age of his son. Five years ago he was nine times the age of his son. His present age is?

a) 36	b) 32
c) 40	d) 28

- 10) $(-2)^{-2} \div (-2)^{-2} = ?$

a) $1/16$	b) $1/4$
c) 16	d) 4

- 11) A man sold his TV for Rs. 250 & gained $1/9$ th of its cost price. what is the cost price?

a) Rs. 2,250	b) Rs. 250
c) Rs. 225	d) Rs. 950

- 12) A fruit seller buys 12 dozen bananas for Rs. 70 & sells 144 bananas for Rs. 105. What is his profit percentage?
 a) 50% b) 35%
 c) 70% d) 55%
- 13) 16.952 divided by 8?
 a) 2.118 b) 2.119
 c) 2.110 d) 2.111
- 14) $(\sqrt{81})/(\sqrt{0.09})$ is?
 a) 3 b) 0.3
 c) 30 d) 300
- 15) Tanvi is travelling at 40 km/hr & reaches a place 5 min late, but at 60 km/hr, she reaches a place 5 min early. How far is this place from the starting point?
 a) 1200kms b) 15 kms
 c) 600 kms d) 20 kms

(Question 16-20) Fill in the blanks with suitable word/phrase

- 16) He had hardly come _____ he was asked to go back
 a) that b) then
 c) when d) than
- 17) Not only is Atul a great guy, _____ a wonderful orator
 a) but b) but also
 c) and d) as well as
- 18) If you go through the book, it _____ be easier for you to understand the plot
 a) will b) would
 c) shall d) should
- 19) Puja dropped _____ school at an early age
 a) into b) out of
 c) from d) at
- 20) Keats died _____ T.B. _____ the age of 25
 a) with, at b) from, on
 c) of, at d) from, with

(Question 20-25) Each sentence is divided into parts, spot the part with the error and choose from the options accordingly.

- 21) (1)He tore away (2)the bills and (3)stormed out of the room (4)none
 a) 1 b) 2
 c) 3 d) 4
- 22) (1)I prefer cycling (2)more than walking (3)in the morning (4)None
 a) 1 b) 2
 c) 3 d) 4

23) (1)Neither Kanta nor (2)Abida are (3) in the class (4)None

- | | |
|------|------|
| a) 1 | b) 2 |
| c) 3 | d) 4 |

24) (1)The plan prepared by Rani is (2)preferable than the one (3)prepared by Shyaam (4)None

- | | |
|------|------|
| a) 1 | b) 2 |
| c) 3 | d) 4 |

25) (1)Because of his innocence (2)he could not distinguish a cheat (3)from an honest man (4)None

- | | |
|------|------|
| a) 1 | b) 2 |
| c) 3 | d) 4 |

(Question 26-30) Choose the option closest in meaning for the idioms/phrases mentioned below.

26) To run amuck

- | | |
|--------------------------|--------------------------|
| a) To go mad | b) To run here and there |
| c) Participate in a race | d) To run a marathon |

27) In keeping with

- | | |
|---------------|-----------------|
| a) agreeable | b) disagreeable |
| c) unsuitable | d) suitable |

28) Crocodile tears

- | | |
|------------------|-------------------|
| a) Cry profusely | b) Pretend sorrow |
| c) Get hurt | d) Weep loudly |

29) Fill one in

- | | |
|------------------------|-------------------|
| a) Make one understand | b) Cut out |
| c) Inform | d) Get in a group |

30) To keep ones word

- | | |
|--------------------|----------------------------------|
| a) To take an oath | b) To keep promise |
| c) To curse | d) To write down a favorite word |

(Question 31-35) Do as directed

31) Choose the word opposite in meaning to - INSIPID

- | | |
|--------------|-----------|
| a) Delicious | b) Speedy |
| c) Rotten | d) State |

32) Choose the word similar in meaning to - VENGEANCE

- | | |
|-----------|----------------|
| a) Avenge | b) Forgiveness |
| c) Tight | d) Show-off |

33) Complete the analogy - Emerald:Green::Sapphire:_____

- | | |
|---------|-----------|
| a) Red | b) Yellow |
| c) Blue | d) Ruby |

- 34) Complete the analogy - Chlorophyll:Leaves::_____:Eyes
- a) Retina
 - b) Iris
 - c) Pupil
 - d) Cornea

- 35) Choose the word closest in meaning to ZENITH
- a) Zeal
 - b) Zest
 - c) Interest
 - d) Pinnacle

(Question 36-40) Choose the correct spelling

- 36)
- a) Grammer
 - b) Gramer
 - c) Grammar
 - d) Gramar

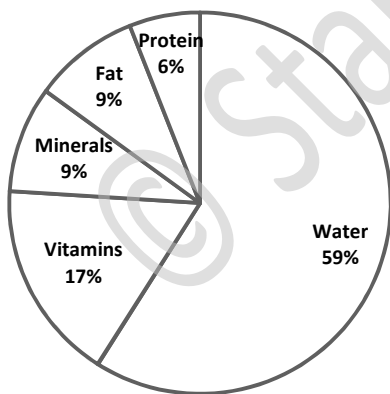
- 37)
- a) Misspelled
 - b) Mispelled
 - c) misspeeled
 - d) Misspeled

- 38)
- a) Commitee
 - b) Committe
 - c) Committee
 - d) Comitee

- 39)
- a) Consensus
 - b) Concensus
 - c) Conscensus
 - d) Conscencesus

- 40)
- a) Recieve
 - b) Receive
 - c) Recive
 - d) Resieve

(Question 41-45) Answer the following with respect to the pie-diagram
(Figures are hypothetical and have no sort of reference)



- 41) Approx how many degrees should there be in the central angle of the sector for water?
- a) 220°
 - b) 210°
 - c) 208°
 - d) 212°

42) What is the approx ratio of water : proteins?

- a) 9:2
b) 1:9
c) 6:1
d) None of these

43) If in 120 ml of this solution, water constitutes 71 ml. How much do proteins constitute?

- a) 6 ml
b) 72 ml
c) 7 ml
d) 9 ml

44) If the code for VITAMIN is ERGZNRH then what is the code for FAT ?

- a) TZH
b) VZF
c) UZG
d) UAG

45) What is the ratio of vitamins : minerals ?

- a) 19:9
b) 17:9
c) 9:100
d) 9:17

(Question 46-65) Do as directed.

Read the passage. Then answer the questions below.

1 The word euthanasia is of Greek origin and literally means "a good death." The American Heritage
2 Dictionary defines it as "the act of killing a person painlessly for reasons of mercy." Such killing can
3 be done through active means, such as administering a lethal injection, or by passive means, such
4 as withholding medical care or food and water.

5 In recent years in the United States, there have been numerous cases of active euthanasia in the
6 news. They usually involve the deliberate killing of ill or incapacitated persons by relatives or friends
7 who plead that they can no longer bear to see their loved ones suffer. Although such killings are a
8 crime, the perpetrators are often dealt with leniently by our legal system, and the media usually
9 portrays them as compassionate heroes who take personal risks to save another from unbearable
10 suffering.

11 The seeming acceptance of active forms of euthanasia is alarming, but we face a bigger, more
12 insidious threat from passive forms of euthanasia. Every year, in hospitals and nursing homes
13 around the country, there are growing numbers of documented deaths caused by caregivers
14 withholding life-sustaining care, including food and water, from vulnerable patients who cannot
15 speak for themselves.

46) In paragraph 3, the author finds starvation and dehydration induced euthanasia is to be "more insidious" because

- a) euthanasia is legally considered to be a criminal act
b) the public's attitude toward euthanasia is becoming more positive
c) it often involves those who cannot protest
d) its perpetrators are viewed as kindly caregivers

47) As used in line 12, what is the best synonym for INSIDIOUS?

- a) Mischievous
b) treacherous
c) Seductive
d) apparent

48) What is the author trying to state in the passage?

- a) Patients of euthanasia die with dignity
b) The legal system of the US supports euthanasia
c) The patient's care-givers who approve of this act are heroes
d) None of these

49) The tone of the author can best be described as

- a) Pleading
- b) compassionate
- c) Emphatic
- d) empathetic

50) The author maintains that death by withholding care is

- a) largely confined to hospitals
- b) largely confined to the terminally ill
- c) often requested by family members
- d) approved by living wills

Read the passage. Then answer the questions below.

1 By the mid-nineteenth century, mass production of paper patterns, the emergence of the home
 2 sewing machine, and the convenience of mail order catalogues brought fashionable clothing into the
 3 American home. By the early twentieth century, home economists working in extension and outreach
 4 programs taught women how to use paper patterns to improve the fit and efficiency of new garments
 5 as well as how to update existing ones.

6 Teachers of home economics traditionally made home sewing a critical part of their curriculum,
 7 emphasizing self-sufficiency and resourcefulness for young women. However, with the increasing
 8 availability of mass-produced clothing in catalogues and department stores, more and more women
 9 preferred buying garments to making them. As a result, home economists shifted their attention to
 10 consumer education. Through field study, analysis, and research, they became experts on the
 11 purchase and preservation of ready-to-wear clothing for the family, offering budgeting instruction
 12 targeted at adolescent girls. Modern home sewing made it possible for American women to
 13 transcend their economic differences and geographic locations with clothing that was increasingly
 14 standardized. The democratization of fashion continued through the twentieth century as the ready-
 15 to-wear market expanded and home sewing became more of a pastime than a necessity.

51) According to the passage, the advent of mail order catalogues altered the role of home economists because

- a) mass-produced clothing rendered their jobs obsolete
- b) women ceased sewing so home economists had to teach other subjects
- c) their focus shifted to instruction on budgeting and buying and preserving clothing
- d) home economists had to compete with the ready-to-wear marketplace

52) This passage focuses on the

- a) historical shifts in home sewing from the mid-nineteenth century through the twentieth century
- b) changing role of home economists as a result of changes in the world
- c) impact of ready-to-wear and mass-produced fashion on home sewing
- d) modernization of home sewing

53) As used in line 14, which is the best definition for democratization?

- a) transitioning to a more democratic political regime
- b) altering or modifying administration in a beneficial way
- c) becoming more affordable to the lower class
- d) gradually becoming acceptable for an entire nation

54) Based on information in the passage, it can be inferred that home sewing allowed American women to do all of the following except

- a) continue to wear clothing that had gone out of style in stores
- b) copy fashions they had seen elsewhere
- c) create less expensive versions of current styles
- d) become experts on budgeting and consumerism

55) According to the passage, which of the following led to a decline in home sewing?

- I. Mail order catalogues
- II. The availability of apparel in retail outlets
- III. Curriculum changes in home economics

- a) I only
- b) II only
- c) I and II only
- d) II and III only

Read the passage. Then answer the questions below.

1 English Ivy betrays its poor reputation as a nuisance by its unparalleled ability to provide shade. By
 2 seamlessly covering the exterior of a building, it works as a natural insulator, blocking the sun and
 3 decreasing air conditioning costs. This means big savings for both building tenants and homeowners
 4 alike. And it can happen quickly, too. Under the proper conditions, established English Ivy can grow
 5 to cover an area of roughly 500 square feet per year. Given that most homes have a roof measuring
 6 roughly 2000 square feet, ivy-friendly homeowners can rest assured that their roofs will be
 7 completely covered in about four years. When considering growth rates of newly planted ivy, just
 8 remember the old adage: First year, it sleeps. Second year, it creeps. Third year, it leaps! For
 9 English Ivy, this is especially true.

10 Now, detractors may take this opportunity to remind readers about how invasive English Ivy can be.
 11 For what ivy enthusiast hasn't been cautioned about its ability to burrow holes, fracture windows,
 12 and even deteriorate brick? But be warned. Oftentimes, this suggestion is taken to the comical
 13 extreme. Naysayers take a strange pleasure in spinning yarns about a particularly malevolent
 14 strand of ivy—one that slips in through the cracks on a hot summer night, silently strangling
 15 homeowners in their sleep. Admittedly, this can be a funny story to tell. But are we to believe such
 16 a tale? The intelligent gardener will quickly dismiss such rubbish for what it is.

56) The primary purpose of the passage is to

- a) highlights the reasons why English Ivy's fast growth rate is beneficial
- b) argue that English Ivy is an essential plant for homeowners
- c) educate readers about how to use English Ivy to insulate their homes
- d) defend the reputation of English Ivy

57) As used in line 1, which is the best definition for betrays?

- a) gives away
- b) contradicts
- c) Supports
- d) highlights

58) Based on information in paragraph 1, which of the following would most likely be considered an insulator?

- a) an umbrella
- b) suntan lotion
- c) Skin
- d) a winter jacket

59) As used in line 13, which is the best antonym for malevolent?

- a) Wary
- b) sensitive
- c) Virtuous
- d) injured

60) This passage would most likely be found

- a) in a scholarly journal about botany
- b) in a magazine article about gardening
- c) in a letter from one gardener to another
- d) on a website identifying different types of plants

Read the passage. Then answer the questions below.

1 The piranha is a much-maligned fish. Most people think that this is a deadly creature that swarms through
 2 rivers and creeks of the Amazon rainforest looking for victims to tear apart. And woe betide anyone
 3 unlucky enough to be in the same water as a shoal of piranhas. It takes only a few minutes for the vicious
 4 piranhas to reduce someone to a mere skeleton.

5 The truth is that the piranha is really a much more nuanced animal than the mindless killer depicted in the
 6 media. In fact, piranhas are a group made up of approximately twelve different species. Each piranha
 7 species occupies its own ecological niche. One type of piranha takes chunks out of the fins of other fish.
 8 Another type eats fruit falling from trees into the river. Each piranha species plays a unique role in the
 9 ecology of the rainforest floodplains. So what should you do next time you hear someone talking about the
 10 “deadly piranha”? You can remind them that the piranha is not always the notorious killer fish that the
 11 tough, muscular heroes of popular nature television shows would have us believe.

- 61) The primary purpose of the author is to
- a) correct misconceptions about the piranha
 - b) illustrate the importance of piranhas in rainforest ecology
 - c) describe two different species of piranhas
 - d) instruct the reader on what to say if someone describes the piranha as “deadly”
- 62) In line 2, the author most likely uses the old-fashioned expression “woe betide” to
- a) highlight the danger posed by piranhas
 - b) suggest that the reputation of the piranha is well-deserved
 - c) emphasize the sarcastic tone
 - d) indicate that the passage was written in the 19th century
- 63) In paragraph 1, the author uses a hyperbole—meaning to exaggerate any effect—to describe the piranha. The author most likely uses hyperbole to
- a) frame an argument that is supported in a later paragraph
 - b) create ambiguity so the reader cannot be sure which position the writer supports
 - c) juxtapose the myth of the piranha with the truth about the fish
 - d) evoke vivid images of nature television shows in the reader’s mind
- 64) As used in line 5, which is the best definition for nuanced?
- a) irreplaceable
 - b) important
 - c) possessed of multiple characteristics
 - d) creating nuisance
- 65) As used in line 10, which is the best synonym for notorious?
- a) celebrated
 - b) disreputable
 - c) notable
 - d) renowned

(Question 66-71) Do as directed

- 66) Find the odd one out.
- a) Leg:Lame
 - b) Ear:Deaf
 - c) Eye:Blind
 - d) Nose:Smell
- 67) In a certain code BASKING is written as BATTING. How is BATHING written in the same code?
- a) BASTING
 - b) BARSING
 - c) BAUQING
 - d) BLATING

68) Astrology:Future::Nephrology:_____

- a) nerves
- b) brain
- c) spine
- d) kidney

69) Rearrange the letters to form a meaningful word

L(1), A(2), V(3), I(4), A(5)

- a) 23541
- b) 32145
- c) 41253
- d) None of these

70) Pratima drove 9km towards north, turned right and walked 3km. She then cycled 4km east turned right and again cycled 2 km. Further on, she drove for the next 5 km. What is her shortest distance from her starting point of travel?

- a) $\sqrt{2}$ km
- b) 1km
- c) $2 \frac{3}{4}$ km
- d) 5 km

71) Puja who is Dinesh's daughter says to Khusboo, "Your mother Kanchan, is the younger sister of my father who is the 3rd child of Surajpal.". How is Surajpal related to Khusboo?

- a) Uncle
- b) Father
- c) Grand-Father
- d) None of these

(Question 72-75) Answer in reference to context

1. Six scientists TA, RA , RUM, PUM, DUM and SUM want to demonstrate an integrated experiment based on inter-disciplinary approach. Their disciplines are Chemistry, Botany, Physics, Geology and Maths but not necessarily in that order.
2. Each day only one scientist will perform the part of his discipline.
3. The experiment will start on Monday and end on Sunday. One day will be the rest day which otherwise is a part of the experiment.
4. TA who is a mathematician can be slated for performing either on 2nd day or the last day. However his day should not be immediately preceded by botany.
5. RUM will demonstrate on 3rd day and Physics will be on 5th day.
6. DUM who is a zoologist performs on 2nd day.
7. RA performs on Monday, and after DUM's performance it will be rest day.

72) Which will be the rest day?

- a) Tuesday
- b) Thursday
- c) Saturday
- d) Cannot be determined

73) Between which 2 disciplines a day's rest is required?

- a) Zoology-Geology
- b) Maths-Physics
- c) Botany-Geology
- d) None of these

74) What is the discipline of SUM ?

- a) Physics
- b) Chemistry
- c) Botany
- d) Cannot be determined

75) On which day will the Chemist perform?

- a) Monday
- b) Tuesday
- c) Saturday
- d) None of these

(Questions 76-80) Do as directed.

76) Complete the series
3,35,99,195,____

- a) 121
- b) 324
- c) 326
- d) None of these

77) a) Complete the analogy
Acting: Theatre:: Gambling: _____

- a) Den
- b) Club
- c) Casino
- d) Hotel

b) Complete the analogy
Fallacy: Illusion:: Mend: _____

- a) Repair
- b) Correct
- c) Mix
- d) Calm

78) Best reason is:

Men wear spectacles because-

1. They find it cool
2. They are able to see better
3. Conceal defects in their eyes
4. Prevent dust from entering

- a) 1
- b) 2
- c) 3
- d) 4

79) If 22nd August falls on a Sunday then what day of the week was 22 days ago?

- a) Monday
- b) Saturday
- c) Sunday
- d) Tuesday

80) Arrange in meaningful order

1-Tissue, 2-Cell, 3-Organ, 4-Organ system

- a) 1432
- b) 1234
- c) 4132
- d) 2134

(Question 81-95) Answer the following

81) Who won the Kyoto literary award for the Arts and Philosophy category in 2012?

- a) Moyan
- b) Manu Joseph
- c) Gayatri Chakravorty Spivak
- d) Anuradha Roy

82) Who is the present president elect of Afghanistan?

- a) Zalmi Rassoul
- b) Yousuf Raza
- c) Hamid Karzai
- d) Salman bin Abdulaziz

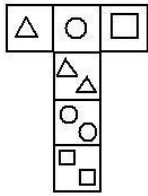
83) How many medals did India win in the 2012 summer Olympics held in London?

- a) 5
- b) 6
- c) 7
- d) 4

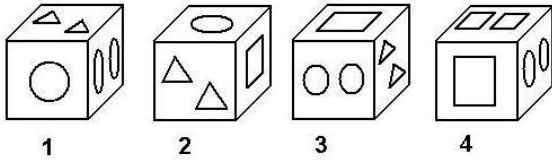
- 84) What is the tagline of the website ' YOUTUBE'?
- a) .Just see it
 c) broadcast yourself
 b) broadcast everyone
 d) just watch it
- 85) What is tagline of famous sportswear brand NIKE?
- a) just play
 c) just do it
 b) sterling with the best
 d) impossible is nothing
- 86) Nokia is originally from which country?
- a) Finland
 c) South Korea
 b) North Korea
 d) China
- 87) Who are the founders of GOOGLE.COM?
- a) Mark Zuckerberg
 c) Andy Rubin
 b) Larry Page and Sergey Brin
 d) Jimmy Wales and Doris Wales
- 88) Who won the Rajiv Gandhi Khel Ratna Award for the year 2012?
- a) Vijay Kumar and Yogeshwar Dutt
 c) Gagan Narang and Mary Kom
 b) Sushil kumar and Ishwar Dutt
 d) Vijender Kumar and Abhinav Bindra
- 89) The Officers training academy is situated in which Indian city?
- a) Mumbai
 c) Delhi
 b) Pune
 d) Chennai
- 90) What is the tagline of the famous mobile phone brand MICROMAX?
- a) connecting people
 c) quietly brilliant
 b) ideas for life
 d) nothing like anything
- 91) What is the name of first Indian supercomputer?
- a) PARAM 8000
 c) EKA
 b) SAGA-220
 d) PARAM YUVA- 120
- 92) When is world environment day celebrated?
- a) 6th June
 c) 5th June
 b) 5th July
 d) 6th July
- 93) Who has written the book Arabian Nights?
- a) Ernest Hemingway
 c) Robert Louis Stevenson
 b) Ruskin Bond
 d) Rudyard Kipling
- 94) Who is known as the "MILKMAN OF INDIA"?
- a) Baba Amte
 c) Norman Borlaug
 b) Varghese Kurien
 d) M.S.Swaminathan

(Question 95-100) Do as directed

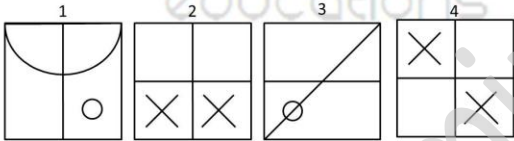
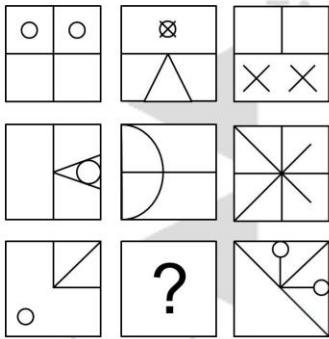
95.



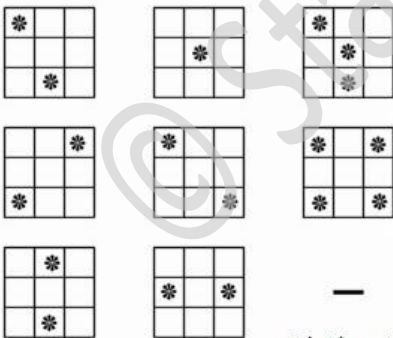
Which cube can be made from the above diagram ?



96

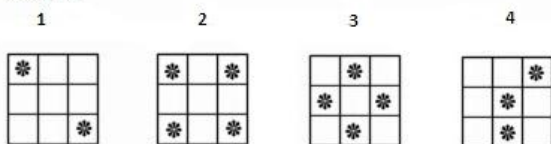


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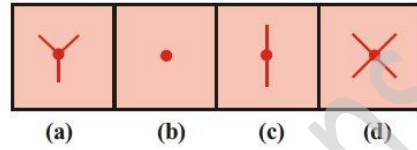
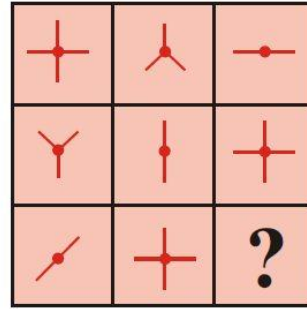


What is next in the sequence?

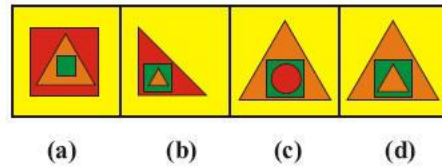
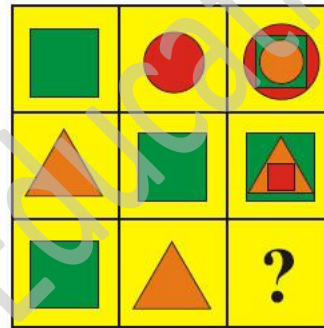
Options:



98.



99



100.

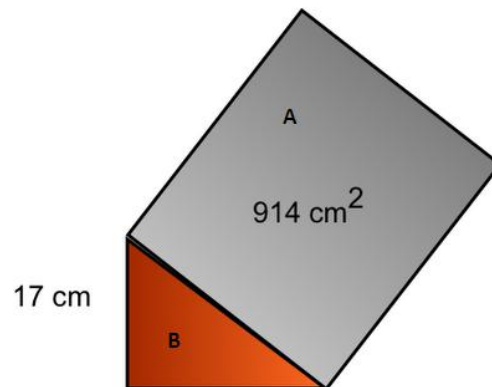


Fig A is a square, b is a right angle triangle, what is the length of base of the triangle B (height is as 17 cm.)?

- a) 72.23 cm b) 25 cm c) 30.23 cm d) 5 cm

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