SATISH SCIENCE ACADEMY
DHANORI PUNE - 411015

SAINIK SCHOOL PAPER 4
ENTRANCE EXAM - SAINIK SCHOOL (CLASS 6)

Time Allowed: 2 hours and 30 minutes

Maximum Marks : 300

General Instructions:

- This question paper booklet contains FOUR sections.
- Section "A" Language contains 25 questions of 2 marks each.
- Section 'B' Mathematics contains 50 questions of 3 marks each.
- Section "C" General Knowledge.
- Section 'D" Intelligence contains 25 questions each of 2 marks each.
- In all, the paper consists of 125 questions for a total of 300 marks. Answer all questions.

Section A - Language

1) Cat, bird, tree, country are all examples of _____ nouns. [2]
   a) Abstract b) Collective
   c) Proper d) Common

2) Make a noun with the adjective **Behave**. [2]
   a) Misbehave b) Behaviour
   c) Behaving d) Behaved

3) Choose the correct noun:
   The parade included fire trucks and police cars. [2]
   a) Collective b) Abstract
   c) Uncountable d) Countable

4) You can settle everything in a friendly manner.
   Which word is a concrete noun? [2]
   a) Can b) Friendly manner
   c) You d) Settle

5) _____ what a excellent shot. [2]
   a) What! b) Hurrah!
   c) Bravo! d) Oh!

6) **Fill in the blank with the Present Perfect Continuous Tense of the verb given in bracket.**
   We _____ English for two years. (study) [2]
   a) Had been studied b) Have been studying
   c) Have studying d) Has been study

7) He answered the question _____. [2]
   a) Silently b) Kindly
   c) Busily d) Confidently

8) Still waters run deep. [2]
   a) Verb b) Adverb
   c) Pronoun d) Adjective

9) Arrange the words in the meaningful sentence:
   to / the company / goods / Vietnam / exports [2]
   a) The company goods exports to Vietnam.
   b) The company exports goods to Vietnam.
   c) Company exports goods to the Vietnam.
   d) The company exports to goods Vietnam.

10) My sister - in - law work every day for 6 hours. (verb tense) [2]
    a) Working b) Will work
    c) Worked d) Works

11) **Identify the correct tense for the given sentence:**
    I live in Model Town. [2]
    a) Present Continuous b) Future tense
    c) Past tense d) Present tense

12) **Choose the correct present continuous or perfect continuous form of the verb to complete the sentence:**
    Pulkit _____ on a big project. [2]
    a) Working b) Has working
    c) Is working d) Has been working

13) Choose the one which best epresses the meaning of the given word.
    Cajole [2]
    a) Persuade b) Insist
    c) Flatter d) Recommend

14) Select the word that conveys the similar meaning as the word given in capital letters:
    MELEE [2]
    a) Brawl b) Primitive dance
    c) Kindness d) Simple song

15) He has been jobless for several months, and it is his wife who keeps the pot boiling. (idiom or proverb) [2]
    a) Keep firing
    b) Boils the pot
    c) avoids starvation
    d) Keep the fire burning

16) The choice of government by the people in a country is called _____. [2]
    a) Democracy b) Anarchy
    c) Autocracy d) Bureaucracy

17) The cat caught ___ tail in the door. [2]
    a) Itself b) It's
    c) It d) Its

18) Choose the appropriate articles for the given sentence:
    Baskets made by _____ Naga women of Imphal are beautiful and sold all over _____ world. [2]
    a) A, the b) The, the
    c) An, a d) An, the

19) **Choose the correct adjective for the given sentence:**
    He is too _____ to be taught. [2]
    a) Wise b) Most intelligent
    c) More intelligent d) Intelligent

20) The girls have been playing badminton _____ two hours. [2]
    a) By b) From
    c) For d) Since

Question No. 21 to 25 are based on the given text. Read the text carefully and answer the questions:

He has reservations on the treatment of dance in Indian films, but, given a chance to work on his own terms, legendary Kathak Dancer Pandit Birju Maharaj would like to work more in Bollywood. The 75 - year - old tells us, "In my opinion, dance is adulterated in Bollywood. To make it more dramatic, the dancers are asked to perform in an exaggerated manner. That makes any kind of dance impure, especially classical dance. I'd like to work more in Hindi films, provided my dance is not tampered with." The Kathak maestro tells us that over the years he's been highly impressed with how some female actors have showcased classical dance on screen. On being asked on how he sees the passion for dance among youngsters in the country, Birju Maharaj says, "I see that the young generation is divided in their response to classical dance. But in all my interactions with the younger lot, I have been impressed. These children have such amazing presence of mind, listening and learning while I talk and teach them." It is often said that classical dance doesn't receive due credit, but the man who is an authority on the subject thinks Delhi receives the art well. "I feel that classical dance might not be on a rise, in popularity, but I have always been overwhelmed by the response that I have received in Delhi. My performances have always been applauded by packed houses in the Capital," he opines.

21) The information presented here about Birju Maharaj can be found in a/an **[2]**
   a) Autobiography b) Newspaper article
   c) Diary d) Encyclopedia

22) The observation that**dance is adulterated** means that the dance form is **[2]**
   a) Found in adult entertainment
   b) Performed only in films
   c) Suitable to be performed by adults
   d) Not practiced according to tradition

23) A**packed house** during his performance suggests that it was **[2]**
   a) Well - attended
   b) Filled into
   c) Exceeding allotted time
   d) Jammed in tightly

24) The younger dancers have 'presence of mind' means that they
   i. Are open to learning the pure form of the dance
   ii. Prefer traditional styles of dancing
   iii. Can combine to perform in the traditional and modern styles
   iv. Are calm while they prepare to perform
   [2]
   a) Option (a) b) Option (c)
   c) Option (d) d) Option (b)

25) Birju Maharaj's assessment of his popularity lies in
   i. The large numbers of practitioners and admirers of his style in Delhi
   ii. The influence of traditional styles in modern dance
   iii. His migrating to Mumbai on popular demand by producers
   iv. The number of dances he has choreographed in films
   [2]
   a) Option (a) b) Option (b)
   c) Option (d) d) Option (c)

Section B - Mathematics

26) Number 15 can be written as: **[3]**
   a) XV b) XIV
   c) VVV d) VIV

27) Solve the addition/ subtraction given in the question. MMLXIII - CDLXXXVI = **[3]**
   a) MDLXV b) MDLXVIII
   c) MDLXXVII d) MDLXXVI

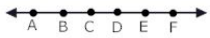
28) Find out the angle in arm.

[3]
   a) Less than right angle.
   b) More than right angle.
   c) Right angle.
   d) None of these.

29) In△ PQR, if m∠ P = m∠ Q = 70°, then △ PQR is _____. **[3]**
   a) Equilateral b) Isosceles
   c) Right - angled d) Scalene

30) A triangle with all the three angles acute is called an _____. **[3]**
   a) Right angled b) Obtuse angled
   c) Straight angled d) Acute angled

31) The longest line in the following figure is



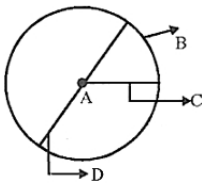
[3]
   a) CE b) AC
   c) BD d) BF

32) An angle has
   i. Two arms
   ii. One vertex
   [3]
   a) Only B is correct
   b) Only A is correct
   c) None of these correct
   d) Both A and B are correct

33) Which pair of the following angles are supplementary?
   i. 140°, 40°
   ii. 50°, 120°
   iii. 65°, 145°
   iv. 25°, 165°
   [3]
   a) B b) D
   c) C d) A

34) If the radius of a circle is doubled, then what happens to its diameter? **[3]**
   a) No change
   b) Halved
   c) Becomes one fourth of it
   d) Doubled

35) Look at the picture given below and answer the question that follow:



A is the _____ of the circle. **[3]**

a) Centre
b) Diameter
c) Radius
d) Circumference

36) Choose the option which is 100 less than 22,200. **[3]**

a) 22,100
b) 22,210
c) 22,000
d) 22,300

37) A train is 200 m long. If it cross an electric pole in 10 s, then its speed is **[3]**

a) 72 km/h
b) 52 km/h
c) 27 km/h
d) 35 km/h

38) What will we get, if we subtract 1 from the smallest 6 - digit number? **[3]**

a) 999999
b) 19999
c) 99999
d) 100009

39) Fill in the missing fraction: $[]-\frac{3}{6}=\frac{3}{6}$ **[3]**

a) $\frac{6}{6}$
b) $\frac{2}{6}$
c) Both 1 and $\frac{6}{6}$
d) 1

40) Identify the given fraction: $\frac{4}{5}$ **[3]**

a) Reciprocal
b) Improper fraction
c) Proper fraction
d) Mixed fraction

41) Arrange there fractions in ascending order $\frac{3}{4}, \frac{1}{6}, \frac{9}{8}, \frac{10}{13}$. **[3]**

a) $\frac{3}{4}, \frac{9}{8}, \frac{1}{6}, \frac{10}{13}$
b) $\frac{10}{13}, \frac{9}{8}, \frac{1}{6}, \frac{3}{4}$
c) $\frac{1}{6}, \frac{3}{4}, \frac{10}{13}, \frac{9}{8}$
d) $\frac{9}{8}, \frac{1}{6}, \frac{3}{4}, \frac{10}{13}$

42) Mathematics textbook for Class VI has 320 pages. The chapter 'symmetry' runs from page 261 to page 272. The ratio of the number of pages of this chapter to the total number of pages of the book is? **[3]**

a) 3 : 40
b) 272 : 320
c) 11 : 320
d) 3 : 80

43) Two numbers are in the ratio 7 : 8. If 3 is added to each of them their ratio becomes 8 : 9. The numbers are **[3]**

a) 24, 27
b) 16, 18
c) 21, 24
d) 14, 16

44) The cost price of 13 articles is equal to the selling price of 11 articles. Find the profit percent? **[3]**

a) $18\frac{3}{11}\%$
b) 30%
c) $16\frac{2}{3}\%$
d) $18\frac{2}{11}\%$

45) Mohit sold an article for ₹18000. Had he offered a discount of 10% on the selling price, he would have earned a profit of 8%. What is the cost price of the article? **[3]**

a) ₹16200
b) ₹15000
c) ₹15900
d) ₹14700

46) The value of 50 + [100 - {35 - (30 - 20)}]× 2 is **[3]**

a) 100
b) 0
c) 58
d) 200

47) Find 15 - (99 - 93) **[3]**

a) 5
b) 9
c) 6
d) 7

48) The heights (in inches) of 10 students in Mr. Tej's class are 64, 59, 63, 60, 65, 66, 66, 66, 61 and 76. Find the range of the heights of the students. **[3]**

a) 16
b) 14
c) 15
d) 17

49) A person earns ₹1800 per month and saves 10% of it. How much does he save? **[3]**

a) ₹1620
b) ₹180
c) ₹1790
d) ₹1810

50) What is 6% of 800? **[3]**

a) 12
b) 60
c) 48
d) 80

51) A water tank whose dimensions are 1.5 m, 0.75 m and 0.48 m is full. Its contents are emptied into another empty tank whose base area is 1 m^2. How much the water level shall rise? **[3]**

a) 0.34 cm
b) 64 cm
c) 5.4 cm
d) 0.54 cm

52) If the perimeter of the triangle is 15 cm and any two sides are of length 4 cm and 3 cm, then the length of the third side will be: **[3]**

a) 6 cm
b) 7 cm
c) 8 cm
d) 5 cm

53) Find first five consecutive even numbers. **[3]**

a) 2, 6, 8, 10, 12
b) 2, 6, 8, 12, 24
c) 2, 4, 6, 8, 10
d) 2, 4, 10, 14, 16

54) Find the quotient of 38.9 by 1000. **[3]**

a) 3.0389
b) 38900
c) 0.0389
d) 0.389

55) What should be side of square (in cm) if its perimeter is equal to area? **[3]**

a) 8 cm
b) 4 cm
c) 6 cm
d) 2 cm

56) How many tiles of 6 cm by 8 cm will require to fit is 4800 cm^2 area of a floor. **[3]**

a) 48 tiles
b) 200 tiles
c) 10 tiles
d) 100 tiles

57) Vijay lent out an amount ₹10000 into two parts, one at 8% p.a. and the remaining at 10% p.a. both on simple interest. At the end of the year he received ₹890 as total interest. What was the amount he lent out at 8% p.a? **[3]**

a) ₹4500
b) ₹5500
c) ₹6000
d) ₹5000

58) How much time will it take for an amount of 450 to gain ₹81 as interest, if rate of interest is 4.5% p.a on simple interest? **[3]**

a) 4 years
b) 5 years
c) 3.5 years
d) 4.5 years

59) Place value of 5 in 6,54,321 is _____. **[3]**

a) Lakh
b) Thousand
c) Ten thousand
d) Hundreds

60) The LCM of two numbers is p and their HCF is q. The product of the two numbers is **[3]**

a) $\frac{q}{p}$
b) $\frac{p}{q}$
c) Pq
d) P+q

61) LCM of 3, 5 and 9 is **[3]**

a) 45 b) 85
c) 65 d) 25

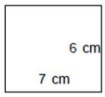
62) A number is divisible by 5 and 6. It may not be divisible by **[3]**
a) 60 b) 10
c) 15 d) 30

63) The unit's digit in the product $(2467)^{153} \times (341)^{72}$ is **[3]**
a) 9 b) 1
c) 7 d) 3

64) In a question of division if divisor is 51, quotient 16 and remainder 27, then the dividend will be **[3]**
a) 9 b) 483
c) 843 d) 1393

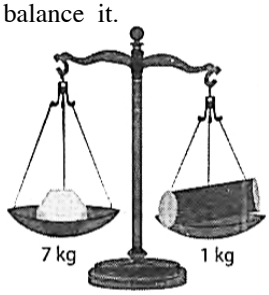
65) Write in ascending order of the following fractional numbers $\frac{5}{17}, \frac{9}{17}, \frac{8}{17}$ and $\frac{10}{17}$. **[3]**
a) $\frac{10}{17}, \frac{9}{17}, \frac{8}{17}, \frac{5}{17}$
b) $\frac{8}{17}, \frac{5}{17}, \frac{10}{17}, \frac{9}{17}$
c) $\frac{5}{17}, \frac{9}{17}, \frac{10}{17}, \frac{8}{17}$
d) $\frac{5}{17}, \frac{8}{17}, \frac{9}{17}, \frac{10}{17}$

66) Find the area and perimeter of the given figure :



[3]
a) Area=26 sq. cm, perimeter=42 cm
b) Area=84 sq. cm, perimeter=13 cm
c) Area = 42sq. cm, perimeter = 26 cm
d) Area=44sq.cm, perimeter=40 cm

67) Look at the picture given below and find the weight to balance it.



[3]
a) 3 kg b) 4 kg
c) 5 kg d) 6 kg

68) Rahul weighs 25 kg more than Sahil. Their combined weight is 175 kg. How much does Sahil weigh (in g)? **[3]**
a) 12500 b) 10000
c) 15000 d) 75000

69) How many centimeters in 0.0457 m. **[3]**
a) 40.57 cm b) 4.57 cm
c) 45.7 cm d) 0.457 cm

70) Identify the pair of equivalent fractions. **[3]**
a) $\frac{1}{7}$ and $\frac{10}{71}$
b) $\frac{2}{7}$ and $\frac{8}{28}$
c) $\frac{5}{21}$ and $\frac{21}{5}$
d) $\frac{11}{13}$ and $\frac{10}{17}$

71) **Statement A:** In Roman numerals, the digits do not have any place value.
Statement B: In MCMXVII year India became independent.
Which of the statement is false? **[3]**
a) Only Statement B is false
b) Only Statement A is false
c) Statement B is true
d) Both Statements are false

72) HCF of 48, 144 and 576 is **[3]**
a) 48 b) 1
c) 576 d) 144

73) X travels 500 km at 20 km/hr. Y travels the same distance at 30 km/hr. Time taken by X and Y respectively are **[3]**
a) 20 hrs, 25 hrs b) 25 hrs, 30 hrs
c) 25 hrs, 20 hrs d) 25 hrs, 50/3 hrs

74) ₹800 becomes ₹956 in 3 years at a rate of S.I. If the rate of interest is increased by 4%, what amount will ₹800 become in 3 years? **[3]**
a) ₹1024 b) ₹1020.80
c) ₹1025 d) ₹1052

75) Average of class I to class V is 29. Average of class I to class III is 31. Average of class IV to class V is **[3]**
a) 28 b) 25
c) 27 d) 26

Section C - General Knowledge

76) The present national flag of India was designed by whom? **[2]**
a) Subhas Chandra Bose b) Jawaharlal Nehru
c) Pingali Venkayya d) Rabindranath Tagore

77) Why do Christians celebrate Easter? **[2]**
a) Christ was born on this day
b) Christ hail for this day
c) Christ rose from the death on this day
d) Christ died on this day

78) Aadiperukku festival is celebrated in which of the following states? **[2]**
a) Kerala b) Telengana
c) AndhraPradesh d) Tamil Nadu

79) The head of Indian Army is a four - star General known as **[2]**
a) Major b) Lieutenant General
c) Chief of Army Staff d) Field Marshal

80) Which of the following nuclear submarine has successfully completed its first deterrence patrol? **[2]**
a) INS Chakra b) INS Kalvari
c) INS Khanderi d) INS Arihant

81) Give the equivalent rank of Colonel of Army in Indian Navy. **[2]**
a) Captain b) Commander
c) Group Captain d) Commodore

82) Which of the following plants use their sense of touch to trap prey? **[2]**
a) Pitcher plant b) Mimosa pudica
c) Cape ivy d) Goose berry

83) What is that agent which is used to counteract a poison? **[2]**
a) Antibody b) Antigen
c) Antibote d) Antiseptic

84) Which among the following is not matched correctly? **[2]**
a) Viswanathan - Anand Chess

b) Sunil Gavaskar - Cricket
c) Mary Kom - Weighlifting
d) Rohan Bopanna - Tennis

85) During which cooking method, the water soluble vitamins are lost from the food items? [2]
a) Boiling b) Baking
c) Frying d) Roasting

86) The process by which food is broken down into absorbable components is called [2]
a) Digestion b) Absorption
c) Excretion d) Ingestion

87) For which field is Norman Borlaug award given? [2]
a) Science b) Defence
c) Agriculture d) Trade

88) The largest active volcano in the world is: [2]
a) Mount Fuji in Japan
b) Mount Elbrus in Russia
c) Mauna Loa in Hawaii
d) Mount Kilimanjaro in Tanzania

89) _____ is a traditional rainwater harvesting technique of Rajasthan. [2]
a) Taanka b) Bavadi
c) Khadin d) Kuan

90) How much time does the Earth take to complete one rotation? [2]
a) 36 hours b) 24 hours
c) 12 hours d) 6 hours

91) Where is the**Gateway of India** located? [2]
a) Agra b) Delhi
c) Mumbai d) Kolkata

92) Petroleum is also known as _____. [2]
a) Coke b) Tar
c) White diamond d) Black gold

93) Mountains arranged in a line is known as _____. [2]
a) Peak b) Range
c) Table mountain d) Fold mountain

94) _____ invented the world's first printing press in the 15th century. [2]
a) Edwin Hubble b) Michael Faraday
c) Johannes Gutenberg d) James Chadwick

95) What did Gandhiji do to break the salt law? [2]
a) Dandi March b) Champaran Movement
c) All of these d) Ahmedabad March

96) Whose birthday is celebrated every year on 14th November as children's day? [2]
a) Bal Gangadhar Tilak b) Sarojini Naidu
c) Jawaharlal Nehru d) Kasturba Gandhi

97) Who was the first Chief Justice of India? [2]
a) N.V. Ramana b) H.J. Kania
c) Sukumar Sen d) B.R. Ambedkar

98) How many members are nominated by the President for Rajya Sabha? [2]
a) 12 b) 8
c) 10 d) 14

99) The first meeting of the Constituent Assembly was held on: [2]
a) 9 December 1946 b) 26 November 1949
c) 26 January 1950 d) 10 February 1948

100) The condition of the atmosphere at a given place and time is called [2]
a) Altitude b) Climate
c) Weather d) Season

Section D - Intelligence

101) Identify the correct number which can take place the missing number.
32 : 17 : : ? : 22 [2]
a) 46 b) 42
c) 52 d) 48

102) Identify the correct set which can take place the missing set.
H I J : J K L : : A P T :? [2]
a) CRV b) CQU
c) BQU d) BRU

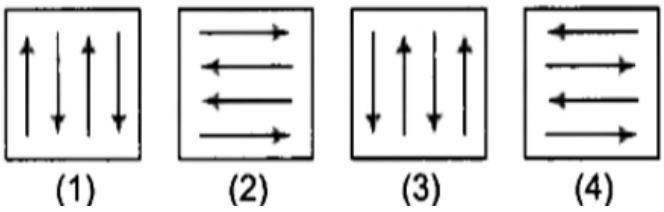
103) Identify the correct number which can take place the missing number.
0.23 : 0.0023 : : 8 : ? [2]
a) 0.008 b) 0.8
c) 0.08 d) 800

104) Identify the correct set which can take place the missing set.
S H A P E : ? : : M A I Z E : Z I A M E [2]
a) A H P S E b) S P A H E
c) H P A S E d) P A H S E

105) Identify the correct set which can take place the missing set.
A D E G : B F H K : : B A C D : ? [2]
a) C D E H b) C C F H
c) C D F H d) C E F G

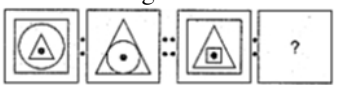
106) Identify the relation between each of the given pair on either side of:: and find the missing term.
5 : 36 :: 25 : ? [2]
a) 1196 b) 676
c) 1248 d) 1286

107) Select the figure which is different from others.



[2]
a) Figure (1) b) Figure (2)
c) Figure (3) d) Figure (4)

108) Select the figure that shows a similar relationship.



[2]

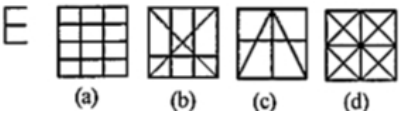
a)

b)

c)

d)

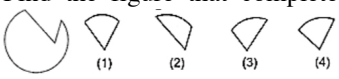
109) Select the figure in which the question figure is hidden/embedded.



[2]

a) Figure (d) b) Figure (c)
c) Figure (a) d) Figure (b)

110) Find the figure that completes the geometrical figure.



[2]

a) Figure (1) b) Figure (2)
c) Figure (3) d) Figure (4)

111) A photograph shows 11 men standing in a row. Mr. John is at the centre. What is his position from the left? [2]

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

112) A term of this series is wrong. Identify the wrong term. 0, 1, 4, 10, 16, 25, 36, 49 [2]

a) 49 b) 10
c) 4 d) 25

113) Find the missing number, if a certain rule is followed either row - wise or column - wise.

5	6	8
6	9	10
121	?	324

[2]

a) 216 b) 384
c) 225 d) 289

114) Identify the mirror image of

[2]

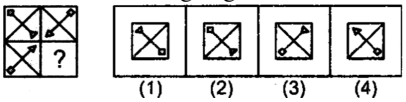
a)

b)

c)

d)

115) Find the missing figure.



[2]

a) Figure (1) b) Figure (2)
c) Figure (3) d) Figure (4)

116) Choose the word which is different from the rest.
Sensitive, Sentiment, Passionate, Sensational [2]

a) Passionate b) Sentimental
c) Sensational d) Sensitive

117) Choose the number which is DIFFERENT from the rest: 21, 39, 51, 83 [2]

a) 39 b) 21
c) 83 d) 51

118) In a certain code language, if **VIOLENCE** is written as **GEPGNQKX**, then how will **MOVEMENT** be written in that code language? [2]

a) VGPOGXQO b) VPGQGXOQ
c) VPGOGXQO d) WRGOGYQO

119) Which word CANNOT be made from the letters of the given word?
INTELLIGENT [2]

a) ELITE b) HILT
c) GENTLE d) INTEL

120) If in a certain code language, 'SPIDER' is written as 'PSDIRE', then how will 'COMMON' be written in the same language? [2]

a) MOCMON b) OCMMNO
c) MOCNOC d) OCMMON

121) In a certain code language, BOARD is written as 54#12 and MORE is written as 941$. How is DREAM written in that code language? [2]

a) 2$1#9 b) 51$#9
c) 21$#9 d) 25$#9

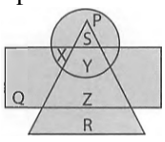
122) P started from his house towards west. After walking a distance of 25 m. He turned to the right and walked 10 m. He then again turned to the right and walked 15 m. After this he is to turn right at 135o and to cover 30 m. In which direction should he go? [2]

a) South - West b) South
c) South - East d) West

123) Pointing to a woman in the picture, Varun said, "Her mother has only one grandchild whose mother is my wife." How is the woman in the picture related to Varun if this woman is the only child of her parents? [2]

a) Sister b) Cousin
c) Data inadequate d) Wife

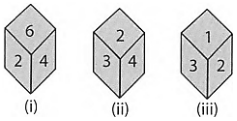
124) In the following diagram, the circle stands for Professors, the triangle stands for Surgical Specialists and Medicine Specialists are represented by the rectangle.



Q represents [2]

a) Professors who are not Surgical Specialists.
b) Professors who are not Medicine Specialists.
c) Medicine Specialists who are neither Professors nor Surgical Specialists.
d) Professors who are neither Medicine nor Surgical Specialists

125) Three different positions of a dice are shown below. Find the number on the face opposite the face showing 2.



[2]

a) 3 b) 5
c) 4 d) 6