

SAMPLE ENTRANCE TEST QUESTIONS

M.Sc. Geoinformatics and P.G.B.Sc.(Applied) in GIS and Remote Sensing

Note:

There is only one entrance examination for admission to M.Sc. Geoinformatics and P. G. B. Sc. (Applied) in GIS and RS courses however, to be considered for admission to both courses, you have to submit applications separately.

Format of the question paper:

| Section | Marks |
|---------------------------------|--------------|
| 1. Quantitative Aptitude | 15 |
| 2. Reading comprehension | 12 |
| 3. Reasoning | 13 |
| 4. Computer basics | 10 |
| TOTAL | 50 |

All questions are of multiple choice.

All questions carry 1 mark

There is no negative marking.

Admissions are based on marks obtained in entrance exam only.

Sample questions

Section1:

Quantitative Aptitude

To measure how fast and accurate a candidate can handle computation, reasoning and interpretation of tables, graphs etc.

1. From 3 boys and 4 girls, three persons are to be selected in such a way that at least one girl is selected. In how many different ways can they be selected?

- A. 60
- B. 42
- C. 21
- D. none of these

2. A man goes 10 meter due east and then 24 meter due north. Find the distance from the starting point.

- A. 26 meters
- B. 24 meters
- C. 28 meters
- D. 30 meters

3. A reduction of 20% in the price of sugar enables a purchaser to obtain 2.5kg more for Rs 160. Find the original price per kg of sugar.

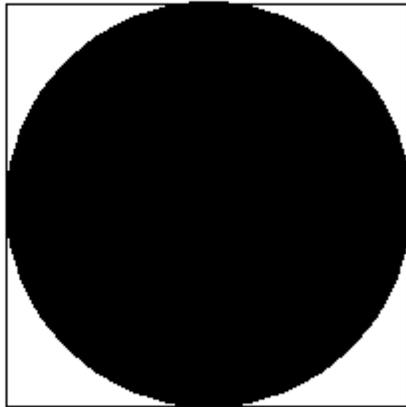
- A. Rs 12
- B. Rs 15
- C. Rs 16
- D. Rs 18

A statement is given followed by four conclusions A, B, C, D. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statement. Indicate your answer.

4. Fertilizer consumption in India in 1984-85 was 8.21 MT. By 1990 it was 13.75 MT and by 2000 it is expected to reach 16 MT. What is your conclusion?

- (a) Fertilizer consumption is steady
- (b) There is a steady decrease in fertilizer consumption
- (c) Fertilizer consumption does not show any trend
- (d) There is a steady increase of fertilizer consumption

5. In the following figure, what is the area of the shaded circle inside of the square?

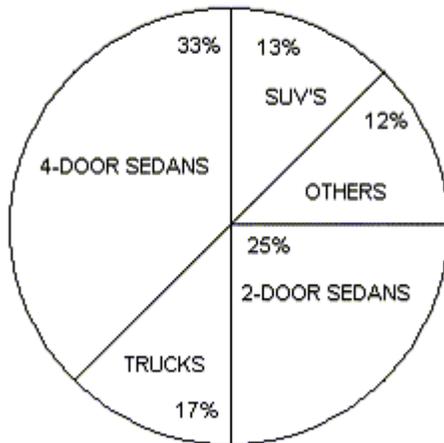


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- A. 512
- B. 256
- C. 12.57
- D. 50.24

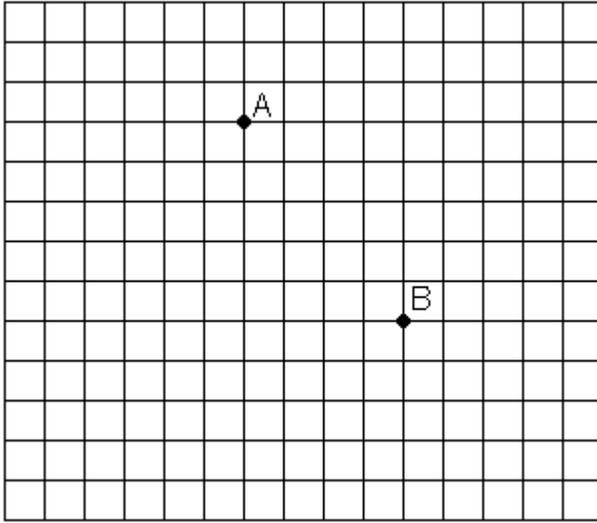
6. if XYZ Auto Company sold 23,000 vehicles in 1999, how many were SUV's?

Percentage of Vehicle Types that XYZ
Auto Company sold in 1999



- A. 2,990
- B. 3,030
- C. 3,450
- D. 4,760

7. In the graph below, no axes or origin is shown. If point B's coordinates are (10,3), which of the following coordinates would most likely be A's?



- A. (17, -2)
- B. (10, 6)
- C. (6, 8)
- D. (-2,-17)

Section 2:

Reading comprehension

This section is to assess how well you understand what you read and test your comprehension of what is stated in or implied by the passage, not your prior knowledge of the topic.

Read carefully the passage and answer the questions below:

On a certain afternoon, in the late springtime, the bell upon Tunstall Moat House was heard ringing at an unaccustomed hour. Far and near, in the forest and in the fields along the river, people began to desert their labors and hurry towards the sound; and in Tunstall hamlet a group of poor country-folk stood wondering at the summons.

Tunstall hamlet at that period, in the reign of old King Henry VI., wore much the same appearance as it wears to-day. A score or so of houses, heavily framed with oak, stood scattered in a long green valley ascending from the river. At the foot, the road crossed a bridge, and mounting on the other side, disappeared into the fringes of the forest on its way to the Moat House, and further forth to Holywood Abbey. Half-way up the village, the church stood among yews. On every side the slopes were crowned and the view bounded by the green elms and greening oak-trees of the forest.

1. In which month might this passage have occurred?

- A: September
- B: December
- C: August
- D: May

2. What did the people do when they heard the bell ring?

- A: they screamed in terror
- B: they ran away from it
- C: they continued their work
- D: they hurried towards it

3. What were the people probably doing before the bell began ringing?

- A: farming
- B: napping
- C: waiting for the bell to ring
- D: eating lunch

4. What does the author mean by a 'score of houses'?

- A: 10 houses
- B: 20 houses

- C: 15 houses
- D: 12 houses

5. Why were the people confused by the ringing of the bell?

- A: because they had never heard it before
- B: because it came at an unusual time
- C: because they loved King Henry VI
- D: because they had been asleep

6. In which country does this passage take place?

- A: France
- B: United States
- C: England
- D: Brazil

7. Where does the road from Tunstall hamlet lead?

- A: to the Moat House
- B: to the church
- C: to the King's castle
- D: to the ocean

8. What is the most likely definition of 'yew'?

- A: wheelbarrow
- B: book
- C: skyscraper
- D: a kind of tree

9. Where is the church located in the village?

- A: nearby
- B: at one end
- C: in the middle
- D: underground

10. What does it mean that the 'slopes were crowned' with trees?

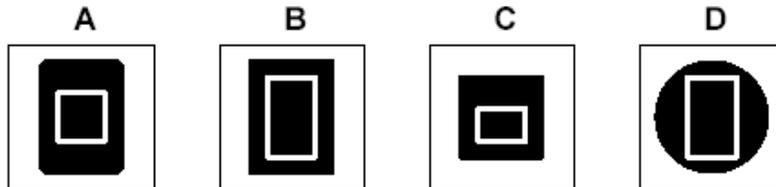
- A: the trees were covered in jewels
- B: the trees were round
- C: there were trees on top of the hill
- D: the slopes were extremely dangerous

Section 3:

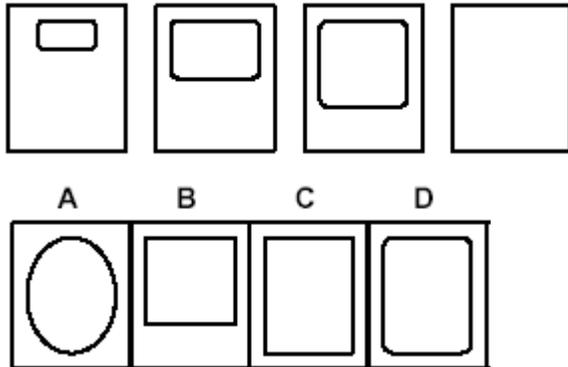
Reasoning

To gauge the thinking and reasoning aptitude of the candidate through questions of various kinds. Problems may be of three types, namely Series, Analogies and Classification.

1. Identify the odd figure in the series



2. Identify the next figure in the series



There is a certain relation between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the given pair has. Select the best alternative.

3. Microphone : Loud :: Microscope : ?

- A. Increase
- B. Investigate
- C. Examine
- D. Magnify

4. Deep : Shallow :: Ocean : ?

- A. Depth
- B. Well
- C. Pond
- D. Spring

Section 4:

Computer basics

Syllabus is based on Maharashtra State Certificate Course in Information Technology (MSCIT) and can be found at <http://www.mkcl.org/mscit/>

1. A _____ is rectangular area that can contain a document, program, or message .
 - A. Window
 - B. Menu
 - C. Box
 - D. Toolbox

2. _____ are graphical objects used to represent commonly used features.
 - A GUI
 - B Drivers
 - C Windows
 - D Icons

3. Which of the following is not an operating system?
 - A Windows
 - B Mac OS
 - C Unix
 - D Norton

Answers

Section 1

1. D
2. A
3. C
4. D
5. C
6. A
7. C

Section 2

1. D
2. D
3. A
4. B
5. B
6. C
7. A
8. D
9. C
10. C

Section 3

1. D
2. A
3. D
4. C

Section 4

1. A
2. A
3. D