

## SAMPLE QUESTIONS

TATA INSTITUTE OF SOCIAL SCIENCES

Deonar, Mumbai 400 088

Written Test for Admission to  
all the programs 2009-2011

### PART I

Duration: 45 Hour

Total Marks: 50

Instructions to Candidates:

Description of the Part I Test

|                                  |                 |
|----------------------------------|-----------------|
| Total marks allotted             | 50              |
| No. of questions                 | 50              |
| Time allotted                    | 45 minutes      |
| Sectional time limit             | No              |
| Sectional cut off                | No              |
| Type of Question                 | Multiple Choice |
| No negative marking              |                 |
| Try to attempt all the questions |                 |

#### **Section A**

**(Marks 20)**

#### **Language ability**

Read the passage provided below and answer the questions that follow:

The Teacher Shobha Vajpayee divides her class into groups of five or six children, and soon everyone is engrossed in measuring the length and breadth of the classroom to draw a map to scale. She took a moment to share with me her reflections on the episode that had just taken place, and she was quick to acknowledge, "Had it not been for the training I have received, I would certainly have interrupted the girl. The training has helped me learn to respect what the children are saying and be receptive to the why of it." Shobha was referring to the trainings organised by the NGO as a part of their Social Science Teaching Programme (SSTP). This is an educational innovation that is being tried out in eight schools of Madhya Pradesh. She felt that this exposure had greatly influenced her teaching not just in social science but in other subjects too. "It has changed my entire way of looking at things she exclaimed, saying that now she is able to look beyond rote learning and exams and understand that in every subject there is a scope to discuss the social and attempt the practical."

1. Who has given training to the teachers?

- (a) Shobha
- (b) The NGO
- (c) The school board
- (d) Madhya Pradesh government

2. What is the author referring to as an 'educational innovation'?
- (a) Children working in groups
  - (b) The teacher
  - (c) The teaching methodology.
  - (d) The social science programme of the NGO.
3. Which of the following sentences is not based upon information given in the passage.
- (a) Through this programme children achieve more.
  - (b) Through this programme teachers have begun to teach in a different manner.
  - (c) Through this programme social science is being taught differently.
  - (d) Through this programme other subject areas have been influenced.
4. In the sentence 'It has changed my entire ways of looking at things' she exclaimed 'it' refers to:
- (a) Children working in groups
  - (b) The training programme
  - (c) The NGO
  - (d) The children
5. In the first sentence of this passage, the word closest in meaning to 'engrossed' is:
- (a) focussed
  - (b) busy
  - (c) working
  - (d) enabled
6. According to the author, in what way has Shobha's teaching changed?
- (a) she worked harder
  - (b) she enjoys being with children more
  - (c) she is able to understand ways to handle the subjects better
  - (d) non of the above
7. Which of the following words does not belong to the set: (i) indifferent (ii) involved, (iii) interested (iv) engrossed
- (a) i
  - (b) iv
  - (c) iii
  - (d) ii
8. The word 'terminally-ill' refers to
- (a) the condition of a person who is very ill.
  - (b) the condition of a person who needs to be hospitalised
  - (c) the condition of a person whose illness will definitely lead to death
  - (c) the condition of a person whose illness has been terminated.

9. .... all countries in the world, India has the highest level of illiteracy.
- (a) in
  - (b) of
  - (b) at
  - (d) on

10. "We are all ready to go, but we have not yet received our visas."  
This sentence can be rewritten as:

- (a.) We can go there only if we receive our visa
- (b) Although we are all ready to go, we are not yet able to as we have not received our visa.
- (c) Only if we receive our visa we can go.
- (d) Unless we receive visa we cannot go.

Given below is a sentences with a word or phrase underlined. Pick an alternative that can be used in its place, without altering the meaning of the original sentence:

11. On the other hand many parents feel that it is better to begin studying English from Class I.
- (a) However
  - (b) For this reason
  - (c) Despite this
  - (d) In any case

Fill in the appropriate choice to complete the sentence

12. For the first time CIDCO has .....to implement the green building concept.
- (a) decides
  - (b) decided
  - (c) decisive
  - (d) decision

13. Which of the following sentences has the same meaning as the sentence provided:

In spite of the fact that there has been an increase in the number of schools in rural areas, still many children do not have access.

- (a)Because there are too many children in rural areas, many of them are not able to access schools.
- (b)Although there are many more schools now, still there are children who are not able to access schools.
- (c)Because of the increase in the number of schools, children are not able to get access.
- (d)The biggest hurdle is giving children access to schools.

14. One of the biggest problem we face in our country is our inability to work in teams. The correct form of this sentence is:

- (a)One of the big problems we face in our country is our inability to work in teams.
- (b)One of the biggest problems we face in our country is our inability to work in teams.
- (c)One of the big problem we face in our country is our inability to work in teams.

(d) One of the problems we face in our country is our inability to work in teams.

15. \_\_\_\_ there a better way of getting this thing done?

- (a) Is
- (b) Are
- (c) Of course
- (d) Which of

16. When she learnt that she had been selected, she was the ..... person in the colony

- (a) happier
- (b) happiest
- (c) happy
- (d) most happiest

Fill in the blanks with the correct word/phrase:

The Floor Space Index (FSI)—the permissible built up area on a plot— \_\_\_\_ (17) 1.33 for most of Mumbai. The concept of FSI in Mumbai at present is scheme-specific \_\_\_\_ (18) \_\_\_\_ area-specific.

17.     (a) were  
          (b) be  
          (c) is  
          (d) being

18.     (a) rather than  
          (b) rather  
          (c) instead  
          (d) than instead

19. 'I am beginning to feel tired'.

- a) She said she was beginning to feel tired.
- b) She said I am feeling tired.
- c) She said she is tired.
- d) She said she feels tired.

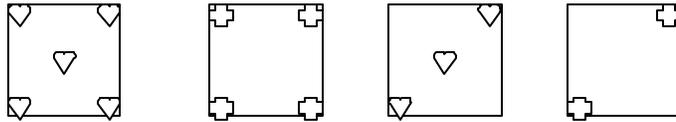
20. "I did not prepare for this examination." This sentence is the answer to which of the following questions?

- a. Did you do this examination?
- b. Why didn't you prepare for this examination?
- c. Did you prepare for this examination?
- d. Didn't you prepare for this examination?

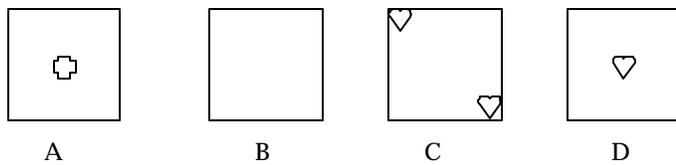
**Section B**  
**Analytical and numerical ability.**

**(Marks 15)**

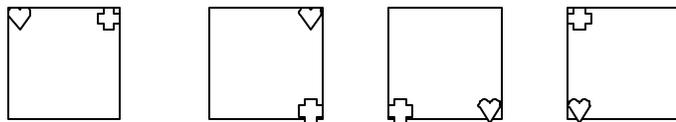
21. Study the following figures



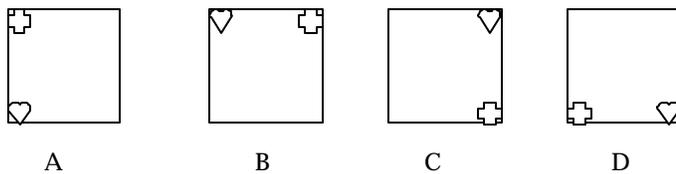
Which of the following figures is the next in the sequence?



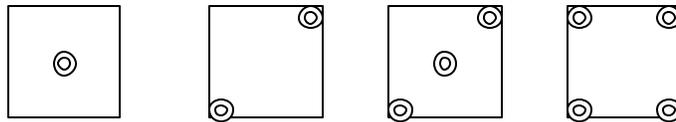
22.



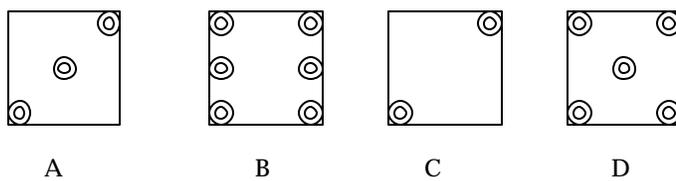
Which of the following figures is the next in the sequence?



23.



Which of the following figures is the next in the sequence?



24. After a discount of 11.11%, a trader still makes a gain of 14.28%. At how many percent above the cost price does he mark his goods?  
(a) 28.56% (b) 35% (c) 22.22% (d) None of these
25. A dealer buys dry fruit at Rs.100, Rs. 80 and Rs. 60 per kg. He mixes them in the ratio 3: 4: 5 by weight, and sells them at a profit of 50%. At what price does he sell the dry fruit?  
(a) Rs. 80/kg (b) Rs. 100/kg (c) Rs. 95/kg (d) None of these
26. An express train travelling at 80 kmph overtakes a goods train, twice as long and going at 40 kmph on a parallel track, in 54 seconds. How long will the express train take to cross a station 400 m long?  
(a) 36 sec (b) 45 sec (c) 27 sec (d) None of these
27. The average marks of a student in ten papers are 80. If the highest and the lowest scores are not considered, the average is 81. If his highest score is 92, find the lowest.  
(a) 55 (b) 60 (c) 62 (d) Cannot be determined.
28. A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C. He again turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and destination is  
(a) 18 km (b) 16 km (c) 15 km (d) 12 km
29. What is maximum number of pieces of 5 cm x 5 cm x 10 cm cake that can be cut from a big cake of 5 cm x 30 cm x 30 cm size?  
(a) 10 (b) 15 (c) 18 (d) 30
30. A rectangular water tank measures 15 m x 6 m at top and is 10 m deep. It is full of water. If water is drawn out lowering the level by 1 meter, how much of water has been drawn out? ?  
(a) 90,000 litres? (b) 45,000 litres? (c) 4,500 litres? (d) 900 litres
31. The average weight of a class of 24 students is 36 years. When the weight of the teacher is also included, the average weight increases by 1 kg. What is the weight of the teacher?  
(A) 60 kg  
(B) 61 kg  
(C) 37 kg  
(D) 40 kg

Directions (For the next FOUR items): Based on the information given below, answer the four items which follow it :

Gopal, Harsh, Inder, Jai and Krishnan live in one of these cities: Ahmedabad, Bhopal, Cuttack, Delhi and Ernakulam (Not necessarily in that order).

They' keep only one of the following pets at home: Horse, Rat, Elephant, Dog and cat. (Not necessarily in that order).

None of the five children likes the same thing, but each of them likes one of the following: Ice-cream, kebab, Soda, Biryani, Curdrice

Further, it is given that:

- I. Gopal's lives in Ernakulam and likes Ice-cream
- II. Harsh does not live in Cuttack or Bhopal. .
- III. The person in Bhopal keeps a rat.
- IV. Inder's lives in Cuttack.
- V. Krishnan likes biryani and does not live in Ahmedabad.
- VI. Jai lives in Delhi and likes curd-rice.
- VII. There are no dogs or cats in Cuttack, Bhopal or Delhi

Based on the information given above answer the next FOUR items:

32. What is Krishnan's pet?

- |              |                          |
|--------------|--------------------------|
| (a) Rat      | (b) Horse                |
| (c) Elephant | (d) Cannot be determined |

33. Which is in Inder's pet?

- |              |                          |
|--------------|--------------------------|
| (a) Elephant | (b) Horse                |
| (c) Rat      | (d) Cannot be determined |

34. Who likes Soda?

- |                    |                          |
|--------------------|--------------------------|
| (a) Inder          | (b) Harsh                |
| (c) Harsh or Inder | (d) Cannot be determined |

35. Which one of the following is the not a possible combination of Person – Hometown - Pet?

- (a) Gopal - Ernakulam- Dog
- (b) Jai - Delhi - Elephant
- (c) Inder - Cuttack - Elephant
- (d) None of the above

**Section C**  
**Awareness on Social Issues**

**(Marks 15)**

36. Which of the following is mismatched
- Godavari - Maharashtra
  - Cauvery – Karnataka
  - Ganga – Himachal Pradesh
  - Haldia - Bihar
37. The Armed Forces (Special Powers) act of 1958 is in force in
- Manipur, Nagaland and Mizoram
  - Assam, Tripura and Mehalaya
  - All of the above
  - None of the above
38. Who among the following has not won the 'Bharat Ratna'?
- Lata Mangeshkar
  - Marudhur Gopalan Ramachandran
  - Dr. Nelson Rohilhlahla Mandela
  - Nandamuri Taraka Ramarao
39. The National programme of Nutritional Support to Primary education was launched
- 1995
  - 1996
  - 2004
  - 2005
40. The constitution has
- 12 schedules, 395 articles, 22 parts
  - 12 schedules, 375 articles, 20 parts
  - 12 schedules, 394 articles, 22 parts
  - 12 schedules, 395 articles, 21 parts
41. Which of the following is incorrectly matched?
- Bhakranangal – Haryana
  - Srisailam – Andhrapradesh
  - Gandhisagar – Madhya Pradesh
  - Sardar Sarovar - Gujarat
42. Which of the following is not one of the socio – demographic goals of the National Population Policy - 2000
- Make school education up to age 14 free and compulsory, and reduce drop outs at primary and secondary school levels to below 20 percent for both boys and girls.
  - Achieve universal immunization of children against all vaccine preventable diseases.
  - Promote delayed marriage for girls, not earlier than age 18 and preferably after 20 years of age.
  - None of the above

43. Which among this has not won the nobel prize
- C.V.Raman
  - R.K.Pachauri
  - Abdul Kalam
  - Amartya sen
44. The current contribution of Nucleur power to total energy production in India is
- > 20 %
  - 15-20 %
  - >15%
  - < 5%
45. The literacy rate for females in India according to the census of 2001 is
- 50-55%
  - 45-55%
  - 40-45%
  - 55-60%
46. Which of the following is not a poet
- M.F. Hussain
  - Kaifi Azmi
  - Makhdoom Mohiuddin
  - Sahir Ludhianvi
47. Gitanjali was written originally written in
- Hindi
  - Sanskrit
  - Bengali
  - English
48. P.C.Mahalanobis is associated with
- Agriculture
  - Statistics
  - Medicine
  - Geology
49. Which of the following does mosquito not spread
- Dengue
  - Malaria
  - Filaria
  - Cholera
50. I.C.D.S provides
- financial support to mothers
  - nutrition to children
  - subsidies to B.P.L. families
  - micro credit