

HALL TICKET NO:



ST. ANTHONY'S COLLEGE, SHILLONG

ENTRANCE TEST FOR ADMISSION INTO GRADUATE PROFESSIONAL COURSES 2005

'O' - LEVEL

DATE : 14 May 2005
TIME : 1.00 am
DURATION : 2 hours

INSTRUCTIONS

- ♦ There are 30 questions in this test. All the questions are to be answered on the question paper itself.
- ♦ The candidate is to answer as many questions as possible in the time that is allotted for this test.
- ♦ The required rough work may be done on the sheet that is provided for the purpose.
- ♦ Make sure that you have entered the hall ticket number properly in the place provided.
- ♦ Please preserve your hall tickets. They will be required at the time of admission.
- ♦ The hall ticket numbers of those shortlisted for admission on the basis of the entrance test will be published on the college notice boards and on the college web site on 16 May, 2005.

Directions for question 1-3: Read and analyse the following information. Record your analysis in a table. With the help of this table, answer the questions that follow.

- i) Five friends P,Q,R,S, and T traveled to five different cities of Chennai, Kolkata, Delhi, Bangalore and Hyderabad by five different modes of transport (Bus, Train, Airplane, Car and Boat) from Mumbai.
- ii) The person who traveled to Delhi did not travel by boat.
- iii) R went to Bangalore by car and Q went to Kolkata by airplane.
- iv) S traveled by boat whereas T traveled by train.
- v) Mumbai is not connected by bus to Delhi and Chennai.

1. Who travels to Chennai and by what mode of transport?
2. Who reached Hyderabad and by what mode of transport?
3. Who went to Delhi and by what mode of transport?

Directions for question 4-6: $A+B$ means A is the father of B; $A-B$ means A is the wife of B; $A \times B$ means A is the brother of B; A/B means A is the daughter of B. (Make a diagrammatic sketch as in a family tree to help you answer the following questions.)

4. If $P/R+Q$, what is the relationship between P and Q ?
5. If $P \times R+Q$, what is the relationship between P and Q ?
6. If $P-R \times Q$, what is the relationship between P and Q ?

Directions for question 7-11: Following are the conditions for allotment of flats built by Town Council in the newly developed area of city, Gurgaon.

The applicant must

- a) Produce domicile certificate of the State
- b) Be employed or self-employed in Gurgaon for a minimum of 5 years.
- c) Be ready to pay the entire amount in 5 years period.
- d) Not be owner or co-owner (if spouse is owner) of residential accommodation in the city limits of Gurgaon.
- e) Not be less than 35 years of age as on December 31, 1996.

In the case of applicant who satisfied all other criteria except

- f) At (a) above, be referred to the President of Town Council
- g) At (b) above, but is ready to produce ration card for last five years, should be referred to Vice-Chairman of the House Allotment Committee.
- h) At (c) above, but is freedom-fighter or ex-servicemen, or first relation i.e. son / daughter / husband / wife / of freedom fighters/ex-servicemen, should be referred to Chairman of House Allotment Committee who can give concession for payment upto 15 years in such cases.

The last date for receipt of application was December 31, 1996. Conditions set out in terms of age or duration of stay are to be fulfilled as on December 31, 1996,

On the basis of the above conditions and the information provided in each question, decide which course of action should be taken against each applicant. You are not to assume anything. The cases are given to you as on 1.1.1997. **Your answer should show which conditions are satisfied and which ones are not fulfilled.** (Your answers will be one of the following : Allot flat, Refer to President, Refer to Chairman, Refer to the Vice-Chairman, Do not allot flat, Data insufficient to decide) .

- 7. S.C. Gupta, the son of an industrialist from other state who has set up his factory in 1990, has a domicile certificate of the State. He is ready to pay the entire amount in 4 years, if required. He does not own a house in Gurgaon city limits but his wife owns a flat in Gurgaon. His date of birth is 11.11.1960.

- 8. Mrs, Swati Sen aged 45 is wife of an ex-serviceman. She has been staying in rented house in Gurgaon for last 10 years. She is having certificate of domicile of the State. She is not employed anywhere. She is ready to pay the entire amount in 10 years.

9. Manmohan is 38 years old senior clerk in the local builder's office in Gurgaon. He has put in 13 years of service, but still does not own a house. He has produced domicile certificate and is ready to pay the entire amount in 8 years. He is nephew of freedom fighter Kishenlal who stays in the nearby village.
10. Sachin Bhalla is a young businessman, domicile of the State, was born and brought up in Gurgaon. He can pay the entire amount in less than three years, if required. He has opened his shop on his 26th birthday, i.e. 23rd February, 1989. He stays with his father but is not having any ownership rights in the house owned by his father.
11. Ms. Uma Santosh is daughter of a renowned freedom fighter from other state. She is domiciled in the State and employed in the town council of Gurgaon for the last 6 years. She can pay the entire amount in 5 years. She has completed 34 years as on December 10, 1994. She does not own a house in Gurgaon.

Directions for questions 12-18: Answer the questions independently.

12. In a certain code '786' means 'study very hard', '958' means 'hard work pays' and '645' means 'study and work'. What is the code for 'very'?

13. In a certain code language 'col tip mot' means 'singing is appreciable'; 'mot baj min' means 'dancing is good' and 'tip nop baj' means 'singing and dancing ', what is the code for 'good'?
14. One term in the following number series is wrong.
24,27,31,33,36.
Find out the wrong term. What should be the correct value in its place?
15. Which fraction comes next in the sequence $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{7}{16}$,...? On what basis have you given this value?
16. What term comes in the blank space in the series 1, 2, 3, 6, 9, 18, (...), 54. Explain how you get this answer.
17. Gaurav walks 20 metres towards North. He then turns left and walks 40 metres. He again turns left and walks 20 metres. Further, he moves 20 metres after turning to the right. How far is he from the original position? Draw a diagram to answer the question.

18. A man leaves for his office from his house. He walks towards East. After moving a distance of 20 m, he turns towards South and walks 10 m. Then he walks 35 m towards the West and further 5 m towards the North. He then turns towards East and walks 15 m. What is the straight distance in metres between his initial and final position? Answer the question with the help of a diagram.

Directions for question 19-20: On a playing ground Dinesh, Kunal, Nitin, Atul and Prashant are standing as described below facing North.

- a) Kunal is 40 metres to the right of Atul.
- b) Dinesh is 60 metres to the south of Kunal.
- c) Nitin is 25 metres to the west of Atul.
- d) Prashant is 90 metres to the north of Dinesh.

Draw a figure to show the positions of the various individuals. Using this, answer the following.

19. Who is North-East of the person who is to the left of Kunal?

20. If a boy walks from Nitin, meets Atul followed by Kunal, Dinesh and then Prashant, how many metres has he walked if he has travelled the straight distance all through?

Directions for question 21-24: Read and analyse the following information. Record your analysis in a table. With the help of this table, answer the questions that follow.

- i) P, Q, R, S, T and U are six members of a family, each of them engaged in a different profession – Doctor, Lawyer, Teacher, Engineer, Nurse, Manager.
- ii) Each of them remains at home on a different day of the week from Monday to Saturday.
- iii) The lawyer in the family remains at home on Thursday.
- iv) R remains at home on Tuesday.
- v) P, the Doctor does not remain at home on either Saturday or Wednesday.
- vi) S is neither the Doctor nor the Teacher and remains at home on Friday.
- vii) Q is the engineer and T is the Manager.

21. Who is the nurse? How do you know that?

22. If the engineer remains at home on Wednesday, who remains at home on Saturday ? What is his profession ?

23. On which day is the doctor at home?

24. Who is the lawyer? Who is at home the day after he is at home?

Directions for questions 25-26: Answer the questions independently.

25. If 'cinto baoli tsi nzro' means 'her village is Sarupur'; 'mhi cinto keepi tsi oind' means ' her first love is literature' and 'oind geit tsi cinto pki' means 'literature collection is her hobby', what word stands for literature?

26. In a certain code language

- a) 'pod na joc' means 'very bright boy';
- b) 'tam nu pod' means 'the boy comes';
- c) 'nu per ton' means 'keep the doll';
- d) 'jor ton su' means very good doll;

What does 'bright' mean in that language?

Directions for question 27-30: A training college has to conduct a refresher course for teachers of seven different subjects - Mechanics, Psychology, Philosophy, Sociology, Economics, Science and Engineering from 22nd July to 29th July.

- a) Course should start with Psychology.
- b) 23rd July, being Sunday, should be a holiday.
- c) Science subject should be on the previous day of the Engineering subject.
- d) Course should end with Mechanics subject.
- e) Philosophy should be immediately after the holiday.
- f) Economics is two days before Engineering.
- g) Science is not on a Wednesday.

Draw up a calendar schedule for the various subjects, and then answer the following.

27. Which subject will be on Tuesday?

28. Which subject precedes Mechanics?

29. How many days' gap is there between Science and Philosophy?

30. If condition (g) above is not specified, what are the possible days for Science?