**Directions (1-5): *Six scientists A, B, C, D, E and F have to demonstrate their subjects namely Chemistry, Zoology, Botany, Physics, Geology and Maths. One scientist will demonstrate only one day.***

***Demonstration will start from Monday and will end on Sunday. There will be a day of rest.***

(i) Chemistry will immediately follow Geology.

(ii) A who is a mathematician, will demonstrate either on second or last day.

(iii) C will demonstrate on third day, Physics will be on the fifth day.

(iv) E, who is zoologist, demonstrates on second day.

(vi) B has demonstrated on Monday and the rest day will be immediately after F's demonstration day.

**1.** On which of the following days no demonstration will take place?

(a) Friday (b) Wednesday (c) Saturday (d) Sunday (e) None of these

**2.** On which day Botany will be demonstrated?

(a) Monday (b) Saturday (c) Wednesday (d) Can't be determined (e) None of these

**3.** Chemistry is immediately preceded by which of the following subjects?

(a) Zoology (b) Maths (c) Botany (d) Physics (e) None of these

**4.** Who demonstrates Physics?

(a) B (b) C (c) D (d) F (e) None of these

**5.** Who among following demonstrates just after B and just before C?

(a) E (b) A (c) D (d) can’t be determined (e) None of these

**Common Information [31-35]**

***There are five boys in a certain school. Their names are Ram, Shyam, Ashok, John and Charit. Each of them represents the school in one of the following sports: Cricket, Table Tennis, Basketball, Lawn Tennis and Football. Their ages are 11, 12, 13, 14 and 15 in any order. Their coaches are Mr. Peter, Mr. Raju, Mr. Nehra, Mr. Jha and Mr. Abdul, not necessarily in the same order. The following information is also known.***

*1. Shyam plays Football. Neither Mr. Raju nor Mr. Nehra is his coach.*

*2. John is neither the oldest nor the youngest. He plays Lawn Tennis.*

*3. Ram’s coach is Mr. Jha.*

*4. The 13 year old boy plays Cricket.*

*5. Ashok’s age is the average of those of Shyam and John.*

*6. The youngest boy plays Table Tennis. Charit plays Basketball.*

*7. Mr. Peter and Mr. Raju are the coaches for Football and Cricket (not necessarily in that order).*

*8. The second oldest boy plays Lawn Tennis, and is not coached by Mr. Nehra.*

31. What is the age (in years) of John?

A. 11 B. 12 C. 13 D. 14

32. Which boy is coached by Mr. Abdul?

A. Ram B. Charit C. John D. Shyam

33. Who is the coach of the second youngest boy?

A. Mr. Abdul B. Mr. Nehra C. Mr. Peter D. Mr. Raju

Q34. For which sport is Mr. Nehra the coach?

A. Table Tennis B. Football C. Cricket D. Basketball

Q35. What is the difference in age (in years) between the boy who plays Football and the boy whose coach is Mr. Raju?

A. 0 B. 1 C. 2 D. 3

**Directions (17-20): Read the following information carefully and answer the questions given after that:**

**A, B, C, D and E are five cities of which three are industrial cities two are port cities, one hill station and three cities have universities .**

(i) Hill city has university but not port.

(ii) The industrial cities with universities do not have port

(iii) Tow industrial cities have universities and C and D are not industries cities.

(iv) D is nor a port city. No port city has university and B is port city.

(v) None of the industrial cities has hill station. D is a hill station and E has university.

17. Which city has industry as well as port but does not have university?

(a) A and D (b) D and B (c) B (d) C (e) None of these

18. Which two cities have ports?

(a) B and D (b) D and C (c) D and E (d) A and C (e) None of these

19. Which industrial city does not have university?

(a) A (b) B (c) C (d) D (e) E

20. Which city neither has industry nor university nor is a hill city?

(a) A (b) B (c) C (d) D (e) E

**Directions (13-16):** Read the following information carefully and answer the questions given below:

(i) P, Q, R, S, T and U are six members of family each of them engaged in a different profession-

Doctor, Lawyer, Teacher, Engineer, Nurse and 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 Thursday.

(iv) R Remains at home on Tuesday

(vi) P, a Doctor does not remain at home either on Saturday or on Wednesday.

(vii) S is neither the Doctor nor the Teacher and remains at home on Friday

(viii) Q is the Engineer and T is the Manager

**13.** Which of the following combinations is not correct?

(a) R-Teacher (b)Q-Engineer (c) T-Manager (d) S-Nurse (e) All correct

**14.** Which of the following combinations is correct?

(a)Lawyer-Tuesday (b)Teacher-Wednesday (c) Manager-Friday (d)Engineer-Thursday (e) Nurse-Friday

**15.** Who is the Nurse?

(a) S (b) R (c) U (d)Data inadequate (e) None of these

**16.** Who among them remains at home on the following days on which R stays at home?

(a) Q (b) Q or T (c) S (d) Can't be determined (e) None of these