Questionnaires: Overall Aptitude and Behaviour

**Problem-Solving Traits**

* Logical problem-solving – The degree to which a candidate can approach complex problems in a structured, incremental and analytical way.
* Rapid problem-solving – The degree to which a candidate can handle pressure, thinking quickly and accurately to solve problems intuitively.
* Spatial visualisation – The assessment of a candidate's ability to work with theoretical 3D objects, visualise dimensions and manipulate diagrams to solve spatial problems.

These traits are used to gain a picture of overall cognitive ability and intelligence.

Quantitative Aptitude

* Arithmetic
* Data interpretation

Reasoning

* [Logical](https://www.indiabix.com/logical-reasoning/questions-and-answers/)
* [Verbal](https://www.indiabix.com/verbal-reasoning/questions-and-answers/)
* [Nonverbal](https://www.indiabix.com/non-verbal-reasoning/questions-and-answers/)
* Spatial

Questions:

1. A candy jar contains 60 red candies, 30 blue candies and 10 green candies. What is the probability of drawing a blue candy at random, without replacement?

Answer: The probability of drawing a blue candy on the first draw is 30/100. Since we didn't replace the candy, the probability of drawing another blue candy on the second draw is 29/99. Therefore, the probability of drawing two blue candies in a row is (30/100) x (29/99) = 0.0879.

2. A company produces 5000 units of a product each day. If the cost of producing 1 unit is $5, and the company sells each unit for $8, how much profit does the company make per day?

Answer: The cost of producing 5000 units each day is $5 x 5000 = $25,000. The revenue from selling 5000 units each day is $8 x 5000 = $40,000. Therefore, the profit the company makes per day is $40,000 - $25,000 = $15,000.

3. If it takes 5 workers 6 days to complete a project, how many days will it take 4 workers to complete the same project?

Answer: Let's assume that the total work required to complete the project is 100 units. If it takes 5 workers 6 days to complete the project, then the rate of work is (100 units) / (5 workers x 6 days) = 3.33 units per day per worker. If 4 workers are doing the same project, then the number of days it takes to complete the project can be calculated as (100 units) / (4 workers x 3.33 units per day) = 7.5 days.

4. John and Peter run a race of 1000 metres. John runs at a speed of 10 metres per second, while Peter runs at a speed of 12 metres per second. How much time will Peter take to finish the race, if John finishes it in 120 seconds?

Answer: John runs the 1000-metre race in 120 seconds, so his speed is (1000 metres) / (120 seconds) = 8.33 metres per second. Since Peter's speed is 12 metres per second, he will finish the race in (1000 metres) / (12 metres per second) = 83.33 seconds.

The following table gives the percentage distribution of population of five states, P, Q, R, S and T on the basis of poverty line and also on the basis of sex.

| State | Percentage of Population below the Poverty Line | Proportion of Males and Females | |
| --- | --- | --- | --- |
| Below Poverty Line | Above Poverty Line |
| M : F | M : F |
| P | 35 | 5 : 6 | 6 : 7 |
| Q | 25 | 3 : 5 | 4 : 5 |
| R | 24 | 1 : 2 | 2 : 3 |
| S | 19 | 3 : 2 | 4 : 3 |
| T | 15 | 5 : 3 | 3 : 2 |

5.If the male population above the poverty line for State R is 1.9 million, then the total population of State R is?

4.5 million

4.85 million

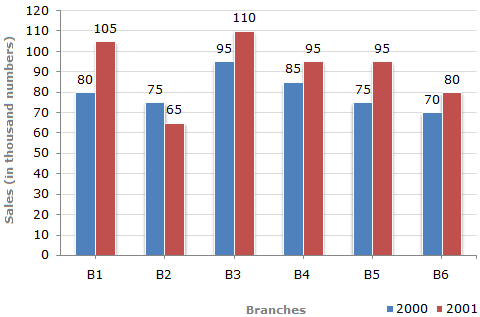
5.35 million

6.25 million

**Answer:** Option d

The bar graph given below shows the sales of books (in thousand numbers) from six branches of a publishing company during two consecutive years 2000 and 2001.

Sales of Books (in thousand numbers) from Six Branches - B1, B2, B3, B4, B5 and B6 of a publishing Company in 2000 and 2001.



6.What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?

2:3

3:5

4:5

7:9

**Answer:** Option D

7.Total sales of branch B6 for both the years is what percent of the total sales of branches B3 for both the years?

68.54%

71.11%

73.17%

75.55%

**Answer:** Option C

8.What percent of the average sales of branches B1, B2 and B3 in 2001 is the average sales of branches B1, B3 and B6 in 2000?

75%

77.5%

82.5%

87.5%

**Answer:** Option D

9.What is the average sales of all the branches (in thousand numbers) for the year 2000?

73

80

83

88

**Answer:** Option B

10.Total sales of branches B1, B3 and B5 together for both the years (in thousand numbers) is?

250

310

435

560

**Answer:** Option D

11. If all frogs are green and all lizards are green, which of the following is a valid conclusion?

a) All animals are green

b) All amphibians are green

c) All reptiles are green

d) All animals are frogs and lizards

Answer: b) All amphibians are green

12. If all pencils are pens and some pens are markers, which of the following must be true?

a) All markers are pencils

b) Some markers are pens

c) All pens are markers

d) All markers are pens and pencils

Answer: b) Some markers are pens

13. If all rectangles are squares, which of the following is a valid conclusion?

a) All squares are rectangles

b) All rectangles have four equal sides

c) All squares have four equal sides

d) All rectangles have right angles

Answer: a) All squares are rectangles

14. If all cats have fur and all dogs have fur, which of the following is a valid conclusion?

a) All animals have fur

b) All cats are dogs

c) All dogs are cats

d) Some animals have fur

Answer: a) All animals have fur

15. If some apples are red and all red things are round, which of the following must be true?

a) All apples are red and round

b) Some apples are round

c) All round things are apples

d) All apples are red

Answer: b) Some apples are round

16. Choose the word that is most nearly opposite in meaning to the word "transparent":

a) Opaque

b) Translucent

c) Permeable

d) Luminous

Answer: a) Opaque

17. Which of the following is a synonym for the word "repudiate"?

a) Accept

b) Confirm

c) Deny

d) Applaud

Answer: c) Deny

18. Choose the word that best completes the sentence: "Many people are \_\_\_\_\_\_\_\_ about the effects of climate change."

a) Indifferent

b) Skeptical

c) Enthusiastic

d) Fortunate

Answer: b) Skeptical

19. Identify the correctly spelled word:

a) Accomodate

b) Accommodate

c) Acommodate

d) Accommodete

Answer: b) Accommodate

20. Choose the sentence that is grammatically correct:

a) Him and I went to the store.

b) Me and him went to the store.

c) He and I went to the store.

d) I and him went to the store.

Answer: c) He and I went to the store.

21.Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

**Answer:** Option 3

22.Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

**Answer:** Option 2

23.Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

**Answer:** Option 4

24.Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

**Answer:** Option 1

25.Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures: Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

**Answer:** Option 1

Eysenck Personality Questionnaire

(EPQ; Eysenck and Eysenck, 1975 ; Eysenck, H. J., & Eysenck, S. B. G. (1975). Manual of the Eysenck Personality Questionnaire (Junior and Adult). Kent, UK: Hodder & Stoughton)) It's an integrity test (implicit - through personality and lie scale). The version below is the [EPQ-R version from 1985](https://www.sciencedirect.com/science/article/pii/0191886985900261?np=y)

Dimensions ([Wikipedia)](http://en.wikipedia.org/wiki/Eysenck_Personality_Questionnaire#Dimensions)

1.Extraversion/Introversion - Extraversion is characterised by being outgoing, talkative, high on positive affect (feeling good), and in need of external stimulation.

2.Neuroticism/Stability - Neuroticism or emotionality is characterised by high levels of negative affect such as depression and anxiety.

3.Psychoticism/Socialisation - Psychoticism is associated not only with the liability to have a psychotic episode (or break with reality), but also with aggression.

4.Lie (doesn't really say much).

The long scale Instructions

Please answer each question by putting a circle around the ‘YES or the ‘NO’ following the question. There are no right or wrong answers, and no trick questions. Work quickly and do not think too long about the exact meaning of the questions.

Questions All are Yes/No.

1.Do you have many different hobbies?

2.Do you stop to think things over before doing anything?

3.Does your mood often go up and down?

4.Have you ever taken the praise for something you knew someone else had really done?

5.Do you take much notice of what people think?

6.Are you a talkative person?

7.Would being in debt worry you?

8.Do you ever feel ‘just miserable’ for no reason?

9.Do you give money to charities?

10.Were you ever greedy by helping yourself to more than your share of anything?

11.Are you rather lively?

12.Would it upset you a lot to see a child or an animal suffer?

13.Do you often worry about things you should not have done or said?

14.Do you dislike people who don’t know how to behave themselves?

15.If you say you will do something, do you always keep your promise no matter how inconvenient it might be?

16.Can you usually let yourself go and enjoy yourself at a lively party?

17.Are you an irritable person?

18.Should people always respect the law?

19.Have you ever blamed someone for doing something you knew was really your fault?

20.Do you enjoy meeting new people?

21.Are good manners very important?

22.Are your feelings easily hurt?

23.Are all your habits good and desirable ones?

24.Do you tend to keep in the background on social occasions?

25.Would you take drugs which may have strange or dangerous effects?

26.Do you often feel ‘fed up’?

27.Have you ever taken anything (even a pin or button) that belonged to someone else?

28.Do you like going out a lot?

29.Do you prefer to go your own way rather than act by the rules?

30.Do you enjoy hurting people you love?

31.Are you often troubled about feelings of guilt?

32.Do you sometimes talk about things you know nothing about?

33.Do you prefer reading to meeting people?

34.Do you have enemies who want to harm you?

35.Would you call yourself a nervous person?

36.Do you have many friends?

37.Do you enjoy practical jokes that can sometimes really hurt people?

38.Are you a worrier?

39.As a child did you do as you were told immediately and without grumbling?

40.Would you call yourself happy-go-lucky?

41.Do good manners and cleanliness matter much to you?

42.Have you often gone against your parents’ wishes?

43.Do you worry about awful things that might happen?

44.Have you ever broken or lost something belonging to someone else?

45.Do you usually take the initiative in making new friends?

46.Would you call yourself tense or ‘highly strung’?

47.Are you mostly quiet when you are with other people?

48.Do you think marriage is old-fashioned and should be done away with?

49.Do you sometimes boast a little?

50.Are you more easy-going about right and wrong than most people?

51.Can you easily get some life into a rather dull party?

52.Do you worry about your health?

53.Have you ever said anything bad or nasty about anyone?

54.Do you enjoy co-operating with others?

55.Do you like telling jokes and funny stories to your friends?

56.Do most things taste the same to you?

57.As a child were you ever cheeky to your parents?

58.Do you like mixing with people?

59.Does it worry you if you know there are mistakes in your work?

60.Do you suffer from sleeplessness?

61.Have people said that you sometimes act too rashly?

62.Do you always wash before a meal?

63.Do you nearly always have a ‘ready answer’ when people talk to you?

64.Do you like to arrive at appointments in plenty of time?

65.Have you often felt listless and tired for no reason?

66.Have you ever cheated at a game?

67.Do you like doing things in which you have to act quickly?

68.Is (or was) your mother a good woman?

69.Do you often make decisions on the spur of the moment?

70.Do you often feel life is very dull?

71.Have you ever taken advantage of someone?

72.Do you often take on more activities than you have time for?

73.Are there several people who keep trying to avoid you?

74.Do you worry a lot about your looks?

75.Do you think people spend too much time safeguarding their future with savings and insurance?

76.Have you ever wished that you were dead?

77.Would you dodge paying taxes if you were sure you could never be found out?

78.Can you get a patty going?

79.Do you try not to be rude to people?

80.Do you worry too long after an embarrassing experience?

81.Do you generally ‘look before you leap’?

82.Have you ever insisted on having your own way?

83.Do you suffer from ‘nerves’?

84.Do you often feel lonely?

85.Can you on the whole trust people to tell the truth?

86.Do you always practise what you preach?

87.Are you easily hurt when people find fault with you or the work you do?

88.Is it better to follow society’s rules than go your own way?

89.Have you ever been late for an appointment or work?

90.Do you like plenty of bustle and excitement around you?

91.Would you like other people to be afraid of you?

92.Are you sometimes bubbling over with energy and sometimes very sluggish?

93.Do you sometimes put off until tomorrow what you ought to do today?

94.Do other people think of you as being very lively?

95.Do people tell you a lot of lies?

96.Do you believe one has special duties to one’s family?

97.Are you touchy about some things?

98.Are you always willing to admit it when you have made a mistake?

99.Would you feel very sorry for an animal caught in a trap?

100.When your temper rises, do you find it difficult to control?

Coding

Psychoticism/Socialisation

YES: 25, 29, 30, 34, 37, 42, 48, 50, 56, 73, 75, 91, 95

NO: 2, 5, 7, 9, 12, 14, 18, 21, 41, 54, 59, 64, 68, 79,81, 85, 88, 96, 99

Extraversion/Introversion

YES: 1, 6, 11, 16, 20, 28, 36, 40, 45, 51, 55, 58, 61, 63, 67, 69, 72, 78, 90, 94

NO: 24, 33, 47

Neuroticism/Stability

YES: 3, 8, 13, 17, 22, 26, 31, 35, 38,43 46, 52, 60, 65, 70, 74, 76, 80, 83,84, 87, 92, 97, 100

Lie

YES: 15, 23, 39, 62, 86, 98

NO: 4, 10, 19, 27, 32, 44, 49, 53, 57, 66, 71, 77, 82, 89, 93