

*Directions: Each of the following question has a question and two statements labelled as (i) and (ii). Use the data/information given in (i) and (ii) to decide whether the data are sufficient to answer the question record your answer as*

- A) If you can get the answer from (1) alone but not from (2)
- B) If you can get the answer from (2) alone but not from (1)
- C) If can get the answer from (1) and (2) together, although neither statement by itself suffice
- D) If statement (1) alone suffices and statement (2) alone also suffice.
- E) If can't get the answer from statements (1) and (2) together and you need more data.

Q1) What will be the population of city X in 1991?

- 1) Population of the city has 55% annual growth rate
- 2) in 1991, the population of city X was 8 million

Ans: C

Q2) Was it Rani's birthday yesterday?

- 1) Lata spends Rs. 100 on Rani's birthday
- 2) Lata spent Rs. 100 yesterday

Ans: E

Q3) Is  $3*5$  or is  $4*6$  greater?

- 1)  $a*b = b*a$
- 2)  $a*b$  is the remainder of  $ab \% (a+b)$

Ans: B

Q4) Will the graph X-Y pass through the origin?

- 1) x proportional to the Y
- 2) increment in y per unit rise of x is fixed.

Ans: E

Q5) What was the value of the machine 2 years ago?

- 1) the depreciation of the value of the machine per year is 10%
- 2) present value of the machine is Rs 8000/

Ans: C

Q6) What will be the area of a square that can be inscribed in a circle?

- 1) Radius of the circle is T
- 2) Length of a diagonal of the square is  $2r$

Ans: D

Q7) Can it be concluded that the port made more profit in 1988 than in 1987

- 1) 1987

Total tonnage handled by the port 10 million tonnes	Expenditure made by the port to handle one tonne of cargo Rs.20/-
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- 2) 1988

Total tonnage handled by the port 12.5 million tonnes	Expenditure made by the port to handle one tonne of cargo Rs 25/-
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Ans: E

Q8) There are two figures viz., a circle and a square. Which having greater area?

- 1) Perimeter of the circle is the same as the perimeter of the square.
- 2) Eleven times the radius is equal to seven times the length of one side of the square.

Ans: D

Q9) A candidate who was found to be under weight in medical test had been selected provisionally subject to his attainment of 60Kg weight within one year. What should be the percentage increase of his weight so that selection is confirmed after one year.

- 1) Weight (Kg) =  $16 + 8 \text{ Height (ft)}$  is standard equation for the Indian population. The candidate's height is 5.5
- 2) His present weight is 55Kg.

Ans: D

Q10) Is angle  $\mu = 90^\circ$

- 1)  $\sin^2(\mu) + \cos^2(\mu) = 1$
- 2)  $\sin^2(\mu) - \cos^2(\mu) = 1$

Ans: E

Q11) What will be the average age of workers of an Institution after two years?

- 1) Present average age is 35 years
- 2) There are total 20 workers in the Institution

Ans: A

Q12) Can it be concluded that firestry is getting increasing importance in India? ( Disregarding the change in money value )

1)

Name of the plan	Expenditure on Forest (Crores of rupees)
First five year plan	10
Second five year plan	19

2)

Name of the plan	Expenditure on Forest (Crores of rupees)
First five year plan	46
Second five year plan	92.5

Ans: E

Q13) Is  $AB > AM$  ( A Triangle is given )

- 1)  $AB < AC$
- 2) M is any point other than B and C on BC

Ans: E

Q14) Is  $X^2 + Y^2 < X + Y$ ?

- 1)  $0 < X < 1$
- 2)  $0 < Y < 1$  and  $X \neq Y$  (X not equal to Y)

Ans: C

Q15) Can it be concluded that angle ABO = angle ODC

- 1) ABCD is a Parallelogram and O is the point of intersection of the diagonals.
- 2) Angle DOC = 75deg. and angle DAO = 35deg.

Ans: A

Q16) What is the value of  $x+y$ ?

- 1)  $2y=x+6$
- 2)  $5x=10y-30$

Ans: E

Q17) How many students are there in the class?

- 1) 30 students play foot ball and 40 play cricket .
- 2) Each student plays either foot ball or cricket or both.

Ans: E

Q18) What is the value of  $a:b$ ?

- 1)  $a=x+10\% \text{ of } x$
- 2)  $b=a+10\% \text{ of } a$

Ans: B

Q19) What is the maximum value of the expression  $5+8x-8x^2$ ?

- 1)  $x$  is real
- 2)  $x$  is not positive

Ans: C

Q20) What will be the value of the greatest angle of the triangle ABC?

- 1) Angles of the triangle are in the ratio 2:5:3
- 2) The side opposite to the greatest angle is the longest side.

Ans: A

Q21) What is the range of values of x?

1)  $(x-2) / (2x+5) < 1/3$

2)  $2x/3 + 17/3 > 3x - 20$

Ans: D

Q22) Of the two which one is the greater --  $-3/x$  ,  $-3/y$ ?

1)  $x, y > 0$

2)  $x < y$

Ans: C

Q23) What percentage of the candidates passed both in science and mathematics?

1) 52 percent of the candidates failed in science

2) 42% of the candidates failed in mathematics

Ans: C

Q24) How much pure  $H_2SO_4$  (Hydro Sulphuric Acid) should be added to bring down the percentage of impurity to 5%?

1). 50 liters of pure  $H_2SO_4$  was diluted

2). dilution was to the extent of 20%

Ans:C

Q25) What is the cost of building when architects feeses was 70,000

1. Architect gets 10% for the first Rs. 50000 of the cost of building

2. Architect gets 3% on the cost of the building over 50000

Ans:C

Q26) What is the value of BC?( here one triangle figure is there )

1).  $AP=4$

2).  $PQ=5$

Ans: E

Q27) What is the area of the shaded portion (assume AB, CD are arcs of two circles with centre at O.) Here one arc figure is there

1).  $CA=20m$

2).  $CB=5m$

Ans:C

Q28) What is the area of the greatest circle that can be cut from rectangular paper

1). length of the paper is 30cm

2). Width of the paper is 21cm

Ans:B

Q29) Y is what percentage of X?

1).  $0.3x=Y$

2).  $3x-10y=0$

Ans:D

Q30) What is the area of the trapezium abcd where ab is 5cm

1.  $BC=7CM$

2.  $AB+CD= 16CM$

**Directions :-** Each sentence below has one or two blanks. Choose the word from the set of words for each blank that best fits the meaning of the sentence as a whole.

Q31) The air was bitter cold, the temperature well below the freezing point , yet they found themselves ----- freely as they clambered up the steep northern slope

Ans: disporting

Q32) We were taken when we heard of his defection , never having suspected that he was anything but loyal. So capable had been his ---- or and devotion to cease

**Ans: presentiment**

Q33) War and peace are mutually ----- states of being and war to preserve peace is not a paradox . It is a -----

**Ans: incompatible -- contradiction**

Q34) Although the injury appeared -----, the examination by the ophthalmologist revealed that he would need immediate surgery to save his sight.

**Ans: superficial**

Q35 to Q40 - On similar pattern as above.

### **Antonyms**

Q41. corroborative ---- refutable

Q42. obnoxious ---- harmless

Q43. sanction ---- hinder

Q44. empirical ---- experimental

Q45. aborigine ---- emigrant

**Directions** for questions 56- 60 . Questions 56 -60 are based on the following information:

*A port has four berths W,V,X,Y. Of these two are general cargo berth, one is a fertiliser berth and one is for liquid cargo, When vessel A arrived it was berthed at berth V but vessel B which along with A had to wait prior to berthing as vessel C was working in berth Y and vessel D was working in berth W .Vessel E came to unload fertiliser and did not have to wait. All are specialised berths i.e. general cargo vessel has to work only in a general cargo berth. So is true for fertiliser vessel and liquid cargo vessel.*

Q56. The vessel E should be allotted to the berth.

**Ans: X**

Q57. Which of the following berth can accept a vessel carrying liquid cargo--W, V, X, Y

**Ans: V**

Q58. Which of the following is not a general cargo vessel--A ,B, C, D, E

Ans:A

Q59. Total number of general cargo vessels mentioned in the above description is

Ans:3

Q60. Whcih of the following allotments is possible

Ans: B to W