

1. $9x > 100$
 $9x > 2.00$
 πx^2

$\frac{40000}{10000}$
 $\frac{30900}{10000}$

$(x-1)(x+1)$
 $x^2 - 1$

mode = 0

871
 16
 103
 101

60. If the radius of a circle is increased by 100%, the area is increased by :

- (A) 100% (B) 10000%
 (C) 300% (D) 400%

61. If $x^2 - x - 1 = 0$, then the value of $x^3 - 2x + 1$ is :

- (A) 2 (B) $2\sqrt{2}$
 (C) 3 (D) $\frac{1 + \sqrt{5}}{2}$

62. In an objective type test with 26 multiple choice questions each correct answer carries 8 marks and for each wrong answer 5 marks are deducted. A candidate answers all the questions but scores 0 mark. How many questions did he get correct ?

- (A) 13 (B) 12
 (C) 11 (D) 10

63. If $\frac{a}{b} = \frac{3}{4}, \frac{b}{c} = \frac{8}{9}, \frac{c}{d} = \frac{2}{3}$, then $\frac{ad}{b^2}$ is :

- (A) $\frac{81}{64}$ (B) $\frac{27}{32}$
 (C) $\frac{9}{16}$ (D) $\frac{64}{81}$

TS : 14/(P)/II-B

$2x + 5 = -1$
 $2x + 5 = 1$

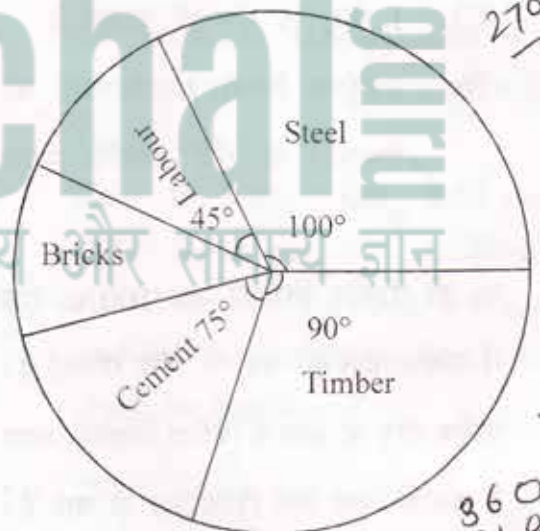
$x^2 - x - 1 = 0$
 $x = \frac{1 \pm \sqrt{1 - 4 \times (-1)}}{2} = \frac{1 \pm \sqrt{5}}{2}$
 $x^3 - 2x + 1 = \left(\frac{1 + \sqrt{5}}{2}\right)^3 - 2\left(\frac{1 + \sqrt{5}}{2}\right) + 1 = 2$

64. In the following set of observations

-18, 7, 0, 5, 80, 6, 5, -13, 0, 5, -70
 we have :

- (A) mean = median = mode
 (B) mean < median = mode
 (C) mean < median < mode
 (D) mean > median = mode

65. The following pie chart represents a total expenditure of Rs. 5,40,000 on different items in constructing a flat in a town. The amount spent on bricks is :



- (A) Rs. 75,000
 (B) Rs. 67,500
 (C) Rs. 1,50,000
 (D) Rs. 70,000

270000

100
 225
 25
 310

360
 210
 50

540000 x 5
 30000
 15000

Directions (Question Nos. 66 to 70) :

Read the following passage and answer the questions that follow :

For myself I demand adventure. Life without danger would be like beef without mustard. But since my life is useful it would be wrong to risk it for the mere sake of risk, as by mountaineering or motor racing. As a physiologist I can try experiments on myself and I can also participate in wars and revolutions of which I approve. By the way, love of adventure does not mean love of thrills. I spent six weeks in Madrid during the recent siege. The only thrill that I got there was from reading Rimbaud's poetry. The satisfaction of adventure is something much more solid than a thrill. There are other things which I desire, but do

not demand. I like to have a room of my own with some books, good tobacco, a motor car, and a daily bath.

66. The writer of the passage is.....
- (A) a scientist
(B) an excursionist
(C) fussy about cleanliness
(D) a multi-faceted person
67. The writer is an adventurer.....
- (A) but averse to taking undue risks
(B) for the sake of pleasure
(C) and a revolutionary thinker
(D) and a compulsive seeker of thrill
68. Find the odd pair out based on your reading of the passage :
- (A) Mountaineering : Adventure
(B) War : Revolution
(C) Madrid : Rimbaud's poetry
(D) Physiologist : Experiments

69. The phrase 'beef without mustard' illustrates.....
- (A) a culinary habit
 - (B) an analogy
 - (C) a religious practice
 - (D) an anecdote
70. The word 'siege' means.....
- (A) seize
 - (B) a blockade
 - (C) cease-fire
 - (D) seismic activity

Directions (Question Nos. 71 to 75) :

Read the following passage and answer the questions that follow :

Now though this prodigious mass of humbug is meant to delude the enslaved class only, it ends in deluding the master class much more completely. A gentleman whose mind has been formed at a public school and a university, is much more thoroughly taken in by the falsified history and dishonest political economy and snobbery taught in these places than any worker can possibly be, because the gentleman's education teaches him that he is superior to the common run of men whose duty it is to run his errands and earn his income for him. He honestly believes that the system which has placed him

in such an agreeable situation is the best of all possible systems. He would go to the extent of shedding his blood and that of others to the last drop in its defence. But the great mass of our under-paid, treated-as inferiors, workers cannot feel so sure about it as the gentleman.

71. The passage talks about two types of people including :
- (A) gentlemen and tyrants
 - (B) the ruling class and the ruled
 - (C) pretentious and straight forward people
 - (D) the rich and the poor
72. The passage.....our educational system.
- (A) criticizes
 - (B) investigates
 - (C) laments
 - (D) opposes
73. Gentlemen produced by the educational set up are projected as.....
- (A) fine and dedicated fellows
 - (B) honest believers in the worth of the educational set up
 - (C) oppressors of the masses
 - (D) deluded by a false sense of superiority

74. As per the passage our educational set up needs to.....

- (A) become realistic
- (B) introspect
- (C) be inclusive
- (D) reflect the above at (A), (B) and (C)

75. The tone of the passage is.....

- (A) neutral
- (B) pessimistic
- (C) ironic
- (D) bombastic

Directions (Q. Nos. 76 to 80) :

Each sentence below has two blanks and is followed by four sets of words. Choose the set of words that best fills in the blanks.

76. Nehru was the first to.....the idea of a Constituent Assembly long before such an assembly was..... under the Cabinet Mission Scheme.

- (A) manipulate; set up
- (B) articulate; set up
- (C) assimilate; flourished
- (D) facilitate; sent off

77. It requires a sense of....., assurance, and self confidence to write about bores at all,..... as one of them.

- (A) inferiority; against
- (B) superiority; accept
- (C) superiority; except
- (D) inferiority; except

78. Folk literature.....the beliefs of people as they..... in popular custom, tradition, magic and ritual.

- (A) stops; go
- (B) tells; mixed
- (C) records; appear
- (D) record; make

79. His grief, which had..... for a shortwhile,and tears his heart with a greater force.

- (A) abated; returns
- (B) increased; goes
- (C) lost; returns
- (D) bounced; revives

80. If you had your....., would you work for eight hours a day and.....with a full pension at forty five.

- (A) choice; stay
- (B) option; stay
- (C) stake; continue
- (D) choice; retire

81. Social facilitation is the facilitation of practiced responses by :
- (A) an audience
 - (B) intense aloneness
 - (C) drugs
 - (D) neighbours
82. Which of the following definitions or descriptions is *incorrect* ?
- (A) A primary group is one that meets face to face
 - (B) Co-actors do not share common goal nor they do communicate much with each other
 - (C) An ad hoc group is an enduring group that fulfills more than one goal for its members
 - (D) A cohesive group has the members who are tightly connected to the group
83. Who is the person responsible for experiments on obedience to authority ?
- (A) Milgram
 - (B) Lewin
 - (C) Sheriff
 - (D) Byron
84. Who gave the theory on cognitive dissonance ?
- (A) Jones
 - (B) Latané
 - (C) Festinger
 - (D) Freud
85. In order to prevent group think from emerging, a leader :
- (A) should avoid isolating the policy makers
 - (B) should attempt to get all sides of an issue aired
 - (C) should not make his/her preliminary opinion known until the members of his/her staff have presented their opinion
 - (D) All of the above
86. Festinger proposed that groups are particularly likely to pressure their members to conform group standard when the group is :
- (A) Deviant
 - (B) Opportunistic
 - (C) Cohesive
 - (D) Small