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08 January 2017

Marks: 400

Time: 120 minutes

ROLL NO.: _____	NAME: _____
SIGNATURE: _____	DATE / TIME: _____

INSTRUCTIONS FOR THE CANDIDATES

1.	Before attempting the paper carefully read all the Instructions & Examples given on Side 1 of Answer Sheet (OMR Sheet) supplied separately.
2.	At the start of the examination, please ensure that all pages of your Test booklet are properly printed; your Test booklet is not damaged in any manner and contains 100 questions. In case of any discrepancy the candidate should immediately report the matter to the invigilator for replacement of Test Booklet. No claim in this regard will be entertained at a later stage.
3.	An OMR Answer Sheet is being provided separately along with this Test booklet. Please fill up all relevant entries like Roll Number, Test Booklet Code etc. in the spaces provided on the OMR Answer Sheet and put your signature in the box provided for this purpose.
4.	Make sure to fill the correct Test booklet code on Side 2 of the OMR Answer Sheet. If the space for the Booklet Code is left blank or more than one booklet code is indicated therein, it will be deemed to be an incorrect booklet code & Answer Sheet will not be evaluated. The candidate himself/herself will be solely responsible for all the consequences arising out of any error or omission in writing the test booklet code.
5.	This Test Booklet consists of 08 pages containing 100 questions. Against each question four alternative choices (1), (2), (3), (4) are given, out of which one is correct. Indicate your choice of answer by darkening the suitable circle with BLACK/BLUE pen in the OMR Answer Sheet supplied to you separately. Use of Pencil is strictly prohibited. More than one answer indicated against a question will be deemed as incorrect response.
6.	The maximum marks are 100. Each question carries one mark. There will be a negative marking of one (-1) for incorrect answer and four (4) marks for correct answer. The total time allocated is 120 minutes.
7.	Do not fold or make any stray marks on the OMR Answer Sheet. Any stray mark or smudge on the OMR Answer Sheet may be taken as a wrong answer. Any damage to OMR Answer Sheet may result in disqualification of the candidate.
8.	On completion of the test, candidate must hand over the Test Booklet and OMR Answer Sheet to the invigilator on duty in the room/hall. You may retain the question booklet.
9.	Use of Mobile phones, wrist watches and calculators etc. are not allowed.
10.	Keep all your belongings outside the Examination hall. Do not retain any paper except the ADMIT CARD.

Direction (Question 1 to 7). In these questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

1	Enigma (1) reply (2) praise (3) puzzle (4) sharp
2	Hoary (1) conflict (2) inculcate (3) having grey hair (4) judged
3	Quaint (1) peculiar (2) ordinary (3) curious (4) fast
4	Nimble (1) lazy (2) active (3) smart (4) strong
5	Bridle (1) definite (2) evasive (3) gaudy (4) restrain
6	Vanity (1) conceit (2) pride (3) humility (4) liberate
7	Jocund (1) cheerful (2) flimsy (3) cruel (4) agreement

Direction (Question 8 to 12). In these questions, a part of sentence is underlined. Below are given alternatives to the underlined Part. Choose the correct alternative.

8	The innocence and playfulness of <u>a child exists</u> in all human beings. (1) a child exist in (2) child does exist in (3) the child existence in (4) no correction needed
9	He found that thing <u>he had left</u> it. (1) where there he had left (2) there he had left (3) where he had left (4) no correction needed
10	Write the letter in a legible hand and <u>you should drop</u> it in the Mail box. (1) Drop (2) you must drop (3) you drop (4) no correction required
11	<u>What does it matter</u> most is what you talk to others rather than how you do so. (1) what matters (2) how does it matter (3) what matters it (4) no correction needed
12	Sushma <u>was hurried</u> to the station when she dashed against the truck. (1) was hurrying (2) is hurried (3) had hurried (4) no correction needed

Direction (Question 13 to 16). In these questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences.

13	Ridiculous use of words. (1) onomatopoeia (2) malapropism (3) neologism (4) pun
14	A person not sure of the existence of God. (1) theist (2) atheist (3) agnostic (4) cynic
15	A person who enters without any invitation. (1) burglar (2) thief (3) intruder (4) vandal
16	A person who believes that pleasure is the chief good. (1) stoic (2) hedonist (3) epicure (4) sensual

Direction (Question 17 to 18). Find the correctly spelt word out of the four words given

17	(1) inteligensia (2) inteligentsia (3) intelligensia (4) intelligentsia
18	(1) surveilance (2) surveillance (3) survaillance (4) survellance

Direction (Question 19 to 23). Four Alternatives are given for the idiom/phrase in italics in sentence. Choose the one which best expresses the meaning of the idiom/phrase

19	He is a person <u>after my own heart</u> (1) an object of mockery (2) an emotional man (3) a happy – go – lucky fellow (4) exactly to one's own liking
20	She was in a <u>brown study</u> and did not notice my entrance (1) reverie (2) sleep (3) fear (4) dream

21	A fair crack of the whip (1) severe punishment (3) to provide a fair opportunity	(2) A good check (4) failure of administration
22	She exhibited remarkable <u>sangfroid</u> during the crisis (1) Temper (3) equanimity	(2) irritation (4) anger
23	All his schemes <u>bite the dust</u> for lack of practicality (1) are humiliated (2) are stolen	(3) are looked down upon (4) are killed
Direction (Question 24 to 27). Sentences are given with blanks to be filled in with an appropriate word(s). Choose the correct alternative out of the four		
24	I offered her a job but she _____ to accept it (1) refused (2) denied	(3) accepted (4) agreed
25	There is no _____ on the bench (1) place (2) space	(3) room (4) none of these
26	You are forbidden _____ here (1) not to smoke (2) to smoke	(3) to smoking (4) smoking
27	She denied _____ him (1) to see (2) to have seen	(3) having seen (4) to having seen
Direction (Question 28 to 29). Some of the sentences have errors and some have none. Find out which part (1), (2) or (3) of a sentence has an error. If there is no error, mark your answer as (4)		
28	All his family members (1) / are (2) / social and cooperative (3) no error (4)	
29	All the members of the club are (1) / kindly requested (2) / to attend the meeting (3) / no error (4)	
Direction (Question 30 to 32). Reorder P,Q,R,S to make a meaning full sentence:		
30	My car P: last night R: on foot (1) PQRS (2) SPQR	Q: so I went there S: broke down (3) QRPS (4) PSRQ
31	The house P: after the Colonel and his wife R: expired (1) QPSR (2) PSQR	Q: stood empty S: for many years (3) QSPR (4) SPRQ
32	Strong P: the making to the curb the R: practices of nepotism (1) RPSQ (2) SQRP	Q: in various government departments S: measures are in (3) RQSP (4) SPRQ
Direction (Question 33 to 40). In these questions, you have two brief passages with 4 questions following each passage. Read the passage carefully and choose the best answer out of the four alternatives.		
PASSAGE – 1		
<p>The people I was to meet were all Indians, of the professional classes – doctors, lawyers, public servants, professors at the university, businessmen. Many of them were old friends or sons of old friends. I did not see much of the countryside nor of the industrial conditions. The big change I noticed was the increased interest in politics. You cannot understand the modern Indian unless you realize that politics occupies them passionately and constantly, that artistic problems, and even social problems are subsidiary. Their attitude is unsound, And used to say so; still there it is, and they hold it much more vehemently than they did a quarter of a century ago. When I spoke about the necessity of form in literature And the importance of individual vision, their attention wandered, Although they listened politely. Literature in their view, should expound or inspire a political creed.</p>		
33	What is the attitude of a modern India (1) first he must improve our economic standard (2) first he must remove social evils from the land (3) first he must find solution to the artistic and cultural problems (4) first he must find the correct political solution	

- 34 'Countryside' implies
 (1) rural area (2) one side of the country
 (3) to take sides with one's other country (4) All the four sides of the country
- 35 The word 'subsidiary' in the passage means
 (1) of lesser importance (2) that which subsidises (3) Residency (4) subsequent
- 36 Whom did the author meet
 (1) professionals (2) workers (3) diplomats (4) spirituals

PASSAGE – 2

Even though every interview is a vital occasion, it should not be taken SERIOUSLY. Most of the candidates feel extremely self-conscious and nervous a little before the interview. They brood much over the occasion, trying to calculate their chances of success. All this makes them a little more abnormal and they are unable to display their natural qualities before the board. They stammer and fumble in speech, look pale and scared and behave even awkwardly and shabbily in and out of the interview room. It is, therefore, very essential that the interviewees should keep their minds off the experience they are going to pass through. They must face the occasion as stoically and realistically as possible. The motto of every interviewee should be "hope for the best but expect the worse".

- 37 Antonym of 'extremely' is
 (1) a little (2) non sensically (3) unshabbily (4) none of these
- 38 'Stoically' means
 (1) factually (2) fatally (3) hopefully (4) without feeling pleasure or pain
- 39 Before the interview, most of the candidates feel
 (1) Serious (2) nervous (3) awkward and shabby (4) pale and scared
- 40 A candidate fares before a committee
 (1) courageously (2) awkwardly (3) nervously (4) scaredly

MATHEMATICS

- 41 6 Horses are worth 9 Camels, 27 Camels are worth 30 Bicycles and 300 Bicycles are worth 9 Motor-Cars. If 3 Motor-Cars are worth Rs.72000/-, find the price of the horse :
 (1) Rs.1000 (2) Rs.1200 (3) Rs.1400 (4) None of these
- 42 If $u_i = \frac{X_i - 25}{10}$, $\sum f_i u_i = 20$ and $\sum f_i = 100$. Find \bar{X}
~~(1) 27 (2) 25 (3) 29 (4) 23~~
- 43 If $x = \frac{1 + \cos\theta}{\sin\theta}$ and $y = \frac{1 - \cos\theta}{\sin\theta}$; find the relationship between x and y :
 (1) $x = y$ (2) $x = \frac{1}{y}$ (3) $x = -y$ (4) $x - y = 1$
- 44 In a certain city, the taxi-fare (f) is related to the meter-reading (x) by a linear relationship of the form $f = p + qx$, where p and q are constants. The table below shows a portion of the taxi-fare chart of the year 2012 :
- | | | | | |
|-----------------|----|----|----|----|
| x (in rupees) | 10 | 20 | 30 | 40 |
| y (in rupees) | 22 | 42 | 62 | 82 |
- In January 2013, the fare was revised as follows: p was reduced by 50% and q was increased by 20%. What is the fare, in rupees, corresponding to a meter-reading of 40 rupees at present?
 (1) 97 (2) 27 (3) 100 (4) 67
- 45 Three pipes A, B & C can fill a tank in 20 minutes, 10 minutes and 30 minutes respectively. When the tank is empty, all the three pipes are opened. A, B, & C discharge chemical solutions 'x', 'y', 'z' respectively. The proportion of solution "y" in the liquid in the tank after 3 minutes is :
 (1) $\frac{6}{11}$ (2) $\frac{7}{11}$ (3) $\frac{8}{11}$ (4) $\frac{5}{11}$
- 46 A hemispherical depression is cut out from one face of the cubical wooden block such that the diameter 'p' of the hemisphere is equal to the edge of the cube. The surface area of the remaining solid is :
 (1) $\frac{p^2}{4}(24 - \pi)$ Sq units (2) $\frac{p^2 \pi}{4}$ Sq unit (3) $\frac{p^2}{4}(24 + \pi)$ Sq units (4) $\frac{p^2}{2}(24 + \pi)$ Sq units

47. A number $\frac{p}{q}$, when expressed in decimal form, terminates after 7 digits, then factors of q are of the form $x^m \times y^n$; the value of $x + y$ should be : *Cancelled*
 (1) 7 (2) 14 (3) 9 (4) 26
48. In a certain code language :
 (i) 'Jad Mhao' means 'Red Rose'.
 (ii) 'Rus San' means 'Beautiful Picture'
 (iii) 'San Mhao Ne' means 'Red And Beautiful'
 Which word in that 'language mean' 'And' ?
 (1) Jad (2) Mhao (3) Rus (4) Ne
49. A shoe shop keeps a record of the number of pairs of shoes sold daily. The record of actual sales for a week (Monday to Sunday) was lost. The manager could only get the following table which showed how much the sale had increased or decreased over the previous day's sale :
- | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|-----|-----|-----|-----|-----|-----|-----|
| +1 | +1 | +2 | -11 | +7 | -7 | 0 |
- If "a" is the mean of daily sale for the week and "b" is the mode of daily sale for the week, then what is the value of $a - b$?
 (1) 10 (2) 15 (3) 5 (4) 18
50. $\left\{ 7 \frac{1}{2} + \frac{1}{2} \div \frac{1}{2} \text{ of } \frac{1}{4} - \frac{2}{5} \times 2 \frac{1}{3} \div 1 \frac{7}{8} \text{ of } \left(1 \frac{2}{5} - 1 \frac{1}{3} \right) \right\}$
 (1) $4 \frac{1}{30}$ (2) $2 \frac{1}{30}$ (3) $15 \frac{1}{2}$ (4) $16 \frac{1}{2}$
51. A dice has it 6 faces marked 0, 1, 1, 1, 6 and 6. 2 such dice are thrown together, and the total score is recorded. How many different scores recorded are possible ?
 (1) 5 (2) 4 (3) 3 (4) 2
52. Which of the following is a rational number?
 (1) $(\sqrt[3]{2})^2$ (2) $(\sqrt[3]{2^3})^3$ (3) $(\sqrt[3]{2^3})^4$ (4) $(\sqrt[3]{2})^3$
53. Find the sum of an AP, whose first term is a, second term is b and the last term is c.
 (1) $\frac{(a+c)(b+c-a)}{b-a}$ (2) $\frac{(a+c)(b+c-a)}{2(b-a)}$ (3) $\frac{(a+c)(b+c-2a)}{2(b-a)}$ (4) $\frac{(a+c)(b+c+a)}{2(b-a)}$
54. At 't' minutes past 8 pm, the time needed by the minutes hand of a clock to show 9 pm was found to be 3 minutes less than $\frac{t^2}{4}$ minutes. Then 't' equals :
 (1) 14 min (2) 10 min (3) 4 min (4) 9 min
55. If the zeroes of the polynomial $x^3 - 3x^2 + x + 1$ are $p - q$, p and $p + q$. Find the value of q .
 (1) 1 (2) 0 (3) 2 (4) $\pm \sqrt{2}$
56. To divide a line segment PQ in the ratio $r : s$ (r and s are natural numbers), draw a ray PX such that $\angle QPX$ is an acute angle, then mark points on ray PX, the number of these points is :
 (1) $r - s$ (2) rs (3) $s - 1$ (4) $r + s$
57. If MACHINE is coded as 19-7-9-14-15-20-11, how will you code DANGER?
 (1) 10-7-20-13-11-24 (2) 10-7-20-16-11-24 (3) 13-7-20-9-11-15 (4) 13-7-20-10-11-25
58. Arrange the following in a meaningful sequence.
 (a) Site (b) Plan (c) Rent (d) Money (e) Building
 (1) (d), (a), (b), (e), (c) (2) (c), (d), (b), (e), (a) (3) (b), (c), (e), (a), (d) (4) (a), (b), (c), (e), (d)
59. Pointing to a man in a photograph, a woman said. "His brother's father is only son of my grandmother," How is the woman related to the man in the photograph?
 (1) Mother (2) Aunt (3) Sister (4) Daughter
60. In a certain language 'La Pil Ta' means 'Mango is Sweet'; 'Na Sa Pil' means 'Mango and Banana' and 'Ba Ta Tik' means 'Boy is Wise'. In that language 'Sweet' means ...
 (1) La (2) Pil (3) Sa (4) Ba

61	Find a wrong number in the series : 8, 13, 21, 32, 47, 63, 83 (1) 13 (2) 21 (3) 32 (4) 47
62	If a, b, c are the sides of a right triangle where c is the hypotenuse then the radius r of the circle which touches the sides of the triangle is : (1) $r = \frac{a+b+c}{2}$ (2) $r = \frac{b+c-a}{2}$ (3) $r = \frac{a+b-c}{2}$ (4) $r = \frac{a+c-b}{2}$
63	Abdul, Beena, Chitra and Danny all took the same test. The average score of all four candidates was 64 ; Abdul and Beena had an average of 64 ; Abdul and Danny had a average of 52, while Beena and Danny had an average of 72. What was Danny's score : (1) 60 (2) 64 (3) 68 (4) 72
64	My brother is 562 days older to me while my sister is 75 weeks older to him. If my sister was born on Tuesday, on which day was I born? (1) Sunday (2) Thursday (3) Wednesday (4) Monday
65	The interior of building is in the form of a right circular cylinder of radius 7m and height 6m, surmounted by a right circular cone of some radius and vertical angle 60° . Find the cost of painting the building from inside at the rate of Rs. 30/m ² . (1) Rs.1760 (2) Rs.16710 (3) Rs.17160 (4) Rs.27680
66	$2\frac{6}{13} + \frac{14}{3} + \frac{7}{13} = 3\frac{14}{39}$ (1) 2 (2) 4 (3) 9 (4) 1
67	$(-2)^{(-2)} = ?$ (1) 12 (2) 14 (3) 15 (4) 16
68	A cylindrical tennis ball container contains three balls stacked on one another, such that they touch the wall of the container. The top and bottom balls also touch the lid and the base of the container respectively. If the volume of a tennis ball is 160 cm ³ , then what is the volume of the container? (1) 720 cm ³ (2) 840 cm ³ (3) 1440 cm ³ (4) 480 cm ³
69	Find the missing term in the following series: 17, 33, 68, 133, 270, (1) 535 (2) 545 (3) 555 (4) 565
70	From the top, the angle of depression of an object on the horizontal ground is found to be 60° . On descending 20m vertically downwards from the top of the tower, the angle of depression of the object is found to be 30° . Find the height of the tower. (1) 10m (2) 20m (3) 30m (4) 40m
71	$(-1)^n + (-1)^{8n} = 0$, when n is : (1) any positive integer (2) any odd natural number (3) any even natural number (4) any negative integer
72	Choose the odd numeral pair in the following question : (1) 48 - 134 (2) 40 - 110 (3) 18 - 48 (4) 30 - 80
73	Had Ajita scored 10 more marks in the Maths test out of 30 marks, 9 times these marks would have been the square of her actual marks. How many marks did she get in the test? (1) 15 (2) 6 (3) 23 (4) 20
74	In a frequency distribution, the mid value of a class is 10 and the width of the class is 6, find the lower limit of the class. (1) 6 (2) 7 (3) 8 (4) 12
75	$\frac{11^3 + 13^3 + 15^3 - 3 \times 11 \times 13 \times 15}{11^2 + 13^2 + 15^2 - 11 \times 13 - 13 \times 15 - 165} = ?$ (1) 39 (2) 53 (3) 17 (4) None
76	The mean, median and mode of the data set 7, 7, 5, 7, x are the same. What number does x represent? (1) 7 (2) 8 (3) 10 (4) 9
77	The sides of triangle are 3cm, 4cm and 5cm. The area of the triangle formed by joining the mid points of this triangle is : (1) 3cm ² (2) 6cm ² (3) $\frac{3}{2}$ cm ² (4) $\frac{3}{4}$ cm ²

78	Thirty six vehicles are parked in a parking lot in a single row. After the first car, there is one scooter. After the second car, there are two scooters. After the third car, there are three scooters and so on. Work out the number of scooters in the second half of the row. (1) 10 (2) 12 (3) 15 (4) 17
79	A rod AB of length ℓ is such that its end A (a,0) lies on X-axis and other end B(0, b) lies on Y – axis. P(x, y) is a point on the rod AB ratio 1 : 3 . The relation between x, y and ℓ is given by : (1) $4\ell^2 = x^2 + 3y^2$ (2) $-\ell^2 = x^2 + 3y^2$ (3) $\ell^2 = \frac{16}{9}x^2 + 16y^2$ (4) $\ell^2 = 3x^2 + y^2$
80	If 'A' is denoted by 2 , 'B' by 4 , 'C' by '6' and so on then what will be the sum of the numeric values of the letters of the word 'OWL' ? (1) 110 (2) 90 (3) 100 (4) 102
81	If REASON is coded as 5 and BELIEVED as 7, what is the code number for GOVERNMENT? (1) 6 (2) 8 (3) 9 (4) 10
82	In a sequence of positive integers, every term after the second term is the sum of the two previous terms. If the third term is 9 and the fifth term is 19 , the sixth term is : (1) 29 (2) 19 (3) 48 (4) 28
83	Mr. A, Miss. B, Mr. C and Miss. D are sitting around a table and discussing their trades : (a) Mr. A sits opposite to cook (b) Miss B sits right to the barber (c) The washer man is on the left of the tailor (d) Miss D sits opposite to Mr. C What are trades of A and B? (1) Tailor and Barber (2) Tailor and Cook (3) Barber and Cook (4) Washer man and Cook
84	If x means addition, < means minus, > means multiplication, + means division, – means equal to, ÷ means greater than and = means less than, which one of the alternatives is correct ? (1) $8 < 4 \times 3 - 3 \times 2 \times 1$ (2) $8 > 4 < 3 - 3 > 2 < 1$ (3) $8 + 4 < 3 \div 3 < 2 < 1$ (4) $8 + 4 \times 3 = 3 > 2 \times 1$
85	Simplify: - $\begin{array}{r} 2 + \frac{1}{2 + \frac{1}{1 + \frac{1}{1 + \frac{1}{6}}}} \end{array}$ (1) $\frac{77}{33}$ (2) $\frac{76}{33}$ (3) $\frac{79}{33}$ (4) $\frac{78}{33}$
86	In the scalene $\triangle ABC$, the smallest side is 28m, the largest side is 100m, and the smallest angle equals the difference between the larger two angles. Find the length of the third side in meters : (1) 56m (2) 96m (3) 90m (4) 86m
87	Find the least number which when divided by 2, 3, 4, 5, 6 leaves the remainders 1, 2, 3, 4 and 5 respectively (1) 100 (2) 617 (3) 59 (4) None
88	Choose the missing term from the given options : ZBAWO, YABVN, XZCUM, _____, VXESK (1) WYDTL (2) UYDTL (3) WDYTL (4) WYDTM
89	A merchant has three kinds of wine; of the first kind 403 gallons, of the second 527 gallons and of the third 589 gallons. What is the least number of full casks of equal size in which this can be stored without mixing? (1) 11 (2) 21 (3) 31 (4) 41
90	In the following number sequence, how many such even numbers are there which are exactly divisible by its immediate preceding number but not exactly divisible by its immediate following number? 3 8 4 1 5 7 2 8 3 4 8 9 3 9 4 2 1 5 8 2 (1) One (2) Two (3) Three (4) Four
91	How many $\frac{1}{8}$'s are there in $37\frac{1}{2}$? (1) 100 (2) 300 (3) 500 (4) 800
92	If the 1 st and 6 th letters of the word 'PHOTOGRAPH' are interchanged, also 2 nd and 7 th letters, and so on, which of the following would be the 4 th letter from your right ? (1) H (2) A (3) O (4) T

93	The letters L, M, N, O, P, Q, R, S and T in their order are substituted by nine integers 1 to 9 but not in that order, 4 is assigned to P. The difference between P and T is 5. The difference between N and T is 3. What is the integer assigned to N? (1) 4 (2) 5 (3) 6 (4) 7
94	The difference between the area of a regular hexagon of side 72 cm and that of the circle circumscribing it is (1) $2592(2\pi - 3\sqrt{3}) \text{ cm}^2$ (2) $2592(\pi - 3\sqrt{3}) \text{ cm}^2$ (3) $2592(2\pi - \sqrt{3}) \text{ cm}^2$ (4) None of these
95	Kailash faces towards north. Turning to his right, he walks 25 metres. He then turns to his left and walks 30 metres. Next, he moves 25 metres to his right. He then turns to his right again and walks 55 metres. Finally, he turns to the right and moves 40 metres. In which direction is he now from his starting point? (1) South-west (2) South (3) North-west (4) South-east
96	On Simplifying $\frac{2^{m+3} 3^{2m-n} 5^{m+n+3} 6^{n+1}}{6^{m+1} 10^{n+3} 15^m}$ we get (1) 0 (2) 1 (3) 2 (4) None
97	Three equal circles of unit radius touch each other. Then the area of the circle circumscribing the three circles is : (1) $\frac{\pi}{3} (2-\sqrt{3})^2$ (2) $\frac{\pi}{3} (2+\sqrt{3})^2$ (3) $6\pi (2+\sqrt{3})^2$ (4) $\frac{1}{6}\pi (2+\sqrt{3})^2$
98	The sum of all the numbers between 1 and 1000, which are divisible by 5 but not 2 is : (1) 101100 (2) 50000 (3) 50050 (4) 101000
99	The annual salary of Mr. Nair for the year 2010 is Rs. 40,000. Every year salary increases by Rs.4000. At the beginning of the year 2010 he had borrowed a sum of Rs.44,000 from a bank. Using the following information, determine the number of year he will take to repay the principal and the interest to the bank : (a) The interest due for payment is Rs.3600 at the end of the year 2010 and increases by Rs.800 every year thereafter. (b) Each year he is going to pay the bank 20% of his annual income towards loan payment : (1) 10 yrs (2) 12 yrs (3) 7 yrs (4) 20 yrs
100	In $\triangle PQR$, we have: $\angle P = 50^\circ$, $\angle Q = 60^\circ$ and $\angle R = 70^\circ$. Three incircles of the triangle touches side QR, RP and PQ at points S, T and U respectively. $\angle TSU$ is equal to : \angle (1) 55° (2) 60° (3) 65° (4) 70°