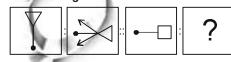
# SOLVED PAPER SSC COMBINED GRADUATE LEVEL PRELIM EXAM

Held on: 04.02.2007

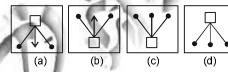
## GENERAL INTELLIGENCE

Directions (1-10): Select the related letters/word/ number/figure from the given alternatives.

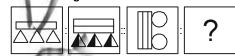
- 1. Soldier: Regiment:: Horse:?
  - (a) Navy
- (b) Fleet
- (c) Cavalry
- (d) Herd
- 2. Philatelist: Stamps Numismatist:?
  - (a) Coins
- (b) Maps
- (c) Jewels
- (d) Samples
- 3. PHOTO: FILM: PHOTOSTAT:?
  - (a) Photographic paper(b) Voltage controller
  - (c) Electricity
- (d) Paper
- 4. IKKL: JLLM:: SUUV:?
  - (a) FFGH
- (b) CEFE
- (c) WXXZ
- (d) TVVW
- 5. FIGUR : FGIRU :: STRES : ?
  - (a) STERS (c) SRSET
- (b) TRSES (d) SRTSE
- 6. 122:145 :: 226: ?
- (a) 250
- (b) 256
- (c) 257
- (d) 290
- 7. 2:4:8 : 10:20:40 :: 3:
- (a) 18:27:54 (c) 6:24:56
- (b) 5:10:17 (d) 15:30:45
- 8. Question Figures



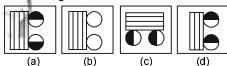
# Answer Figures



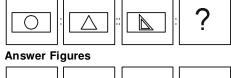
# 9. Question Figures

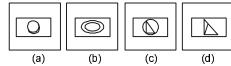


## **Answer Figures**



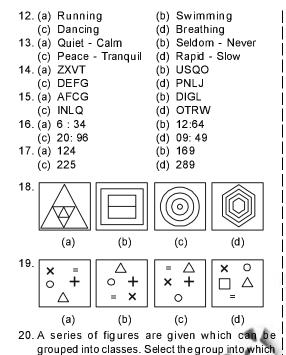
# 10. Question Figures

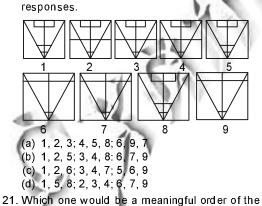




Directions (11-19): Selec the odd word/letters/ number/figure/ from the given responses.

- 11. (a) DICTAPHONE
- (b) GRAMAPHONE
- (c) MICROPHONE
- (d) TELEPHONE





the figures can be classified from the given

- following?
  - (a) Electricity
- (b) Dam
- (c) Lights
- (d) River
- (e) Power House
- (a) d, b, a, c, e
- (b) d, b, e, c, a
- (c) d, b, c, a, e
- (d) d, b, e, a, c

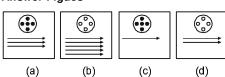
- 22. Arrange the following words according to the
  - Dictionary
  - (a) Trinity
- (b) Tool
- (c) Town
- (d) Twist
- (e) Type
- (a) b, c, a, d, e
- (b) c, a, d, b, e
- (c) b, c, a, e, d
- (d) d, c, b, a, e

Directions (23-29): Find the missing number/letters/ figure from the given responses.

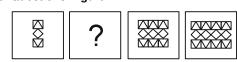
- 23. AGM, BHN, CIO, ?
  - (a) COU
- (b) FQK
- (c) DJP
- (d) QXD
- 24.2, 7, 27, 107, ?
  - (a) 327 (c) 227
- (b) 427 (d) 127
- 5, 7, 11, 2, 35, 6<sup>-1</sup>
  - (a) 23
- (b) 28 (d) 19
- (c) 30 26.242,393,4164,?
  - (a) 5525
- (b) 5255
- (c) 5235 (d) 5325
- 27. Question Figures



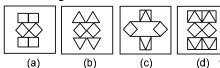
## **Answer Figues**



# 28. Questions Figure

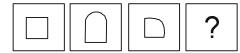


## **Answer Figures**

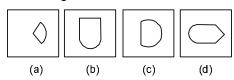


(b) (c) (d) www.examrace.com

## 29. Question Figures



#### **Answer Figures**



30. Which one set' of letters when sequentially placed at the gaps in the given letter series shall complete it ?

aba\_baca\_ba\_bacaabac\_aca

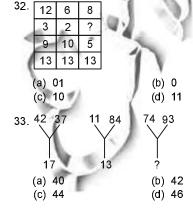
- (a) cacb
- (b) ccab
- (c) cabc
- (d) abcc
- 31. In a certain code the following numbers are coded in a certain way by assigning signs:

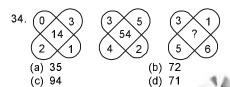
					-,			
1	2	3	4	5	6	7	8	9
+		×	D	#	÷	=	٨	>

Which number can be decoded from the following?

- (b) 79832
- (a) 79328 (c) 79382
- (d) 79882

Directions (32-34): Find the missing number from the given responses.





35. In the following question you have to identify the correct response from the given premises stated according to following symbols.

If + means ÷, - means ×, means ÷ and × means -, then 63 × 24 + 8 ÷ 4 + 2 - 3 = ?

- (a) 54
  - (b) 66
- (c) 186 (d) 48
- 36. A word is given in capital letters. It is followed by. four words. Out of these four words, three cannot be form from the letters of the word in capital letters. Point out the word which can be formed from the letters of the given word in capital letters.

RECOMMENDATION

- (a) MEDIATE
- (b) MEDICINE
- (c) COMMUNICATE
- (d) REMINDER
- 37. A word given in capital letters is followed by four words. Out of these only one cannot be formed by using the letters of the given word. Find out that word.

REHABILITATION

- (a) RELATION
- (b) BRITTLE
- (c) BRITAIN
- (d) BROACH
- 38. When decoded, OPTRRE reads as PORTER. In the same way, what does the following read

**EROPTR** 

- (a) ROPE
- (b) PROPER
- (c) PORT
- (d) REPORT
- 39. Out the six members panel sitting in a row 'U' is to the left of 'V' but on the right of 'W' who is to the right of 'X' and 'Y' is at the right of 'Z' who is to the left of 'X'. Find the members sitting right in the middle.
  - (a) ZY
    - (b) XW
- (c) UV
- (d) WV

- 40. The average age of 30 students is 15 years. If the teacher's age is also included then the average age increases by 1 year. The age of the teacher is
  - (a) 56 years
- (b) 46 years
- (c) 35 years
- (d) 45 years

**Directions:** In the question two statements are given followed by two conclusions I and II. You have to consider the two statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusion can definitely be drawn from the given statements. Indicate your answer.

#### 41. Statements

- (I) Science has brought the gadgets gets of happiness, prosperity and wealth.
- (II) Science has not solved the problems of overpopulation.

#### **Conclusions**

- (a) Overpopulation is due to un-scientific thinking.
- (b) Science has not helped world peace.
- (a) 1 follows
- (b) 2 follows
- (c) 1 and 2 both follow
- (d) 1 and 2 both do not follow

**Directions:** A statement followed by two assumptions I and II is given. You have to consider the statement to be true even if it seems to be at variance from commonly known facts, You are to decide which of the given assumptions can definitely be drawn from the given statement. Indicate which one of the four given alternatives is correct.

42. Statement: Some men wear spectacles.

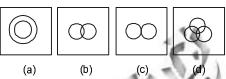
#### Assumptions:

- (I) They want to look handsome.
- (II) The spectacles help them to see properly.
- (a) Only I is implicit
- (b) Only II is implicit
- (c) Both I and II are implicit
- (d) Neither I nor II is implicit

Directions (43-44): Kiran walks 20 m north, he turns right and walks 30 m, then he turns right and walks 35 m, then he turns left and walks 15 m, then he turns left and walks 15 m. he again turns left and walks 15 m.

- 43. How far Kiran is from his starting point?
  - (a) 25 m (b) 15 m (c) 45 m (d) 30 m
- 44. Which direction is Kiran facing now?
  - (a) East
- (b) West
- (c) North
- (d) South

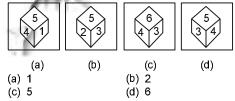
45. How the following statement can be represented? Solid common salt is hygro-scopic, crystalline and non-electrolytic substance.



46. Which one of the following figures represents the relationship among Zebra, Grass eating animals, Lions?



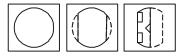
47. Four views of one cube are given below. Each of the six faces of cube is numbered. In figure 3 which number will be opposite to the face with number 3?



48. A piece of paper is folded and punched as shown below

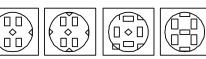
From the given responses indicate how it will appear when opened.

#### **Question Figures:**



(b)

#### **Answer Figures:**



(a)

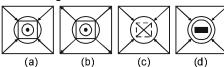
(c)

49. Which one of the answer figures shall complete the given question figure?

## **Question Figures:**



#### **Answer Figures:**



50. In which answer figure is the given figure embedded?

## **Question Figures:**



## Answer Figures:









# GENERAL AWARENESS

- 51. Suppose if we measure the time lapse between the two Sunsets by sitting in the beach, from this we can estimate
  - (a) The distance between the sun and the earth
  - (b) The depth of the ocean
  - (c) The radius of the earth
  - (d) The radius of the sun
- 52. Radioimmunoassay (RIA) is a therapy used
  - (a) to cure lung cancer
  - (b) to, cure AIDS
  - (c) to cure fractures in bones
  - (d) to detect ant bodies and hormones present the blood samples
- 53. In a Laser (say neon laser) all the atoms emit the light waves of
  - (a) Same frequency
- (b) Same amplitude
- (c) Same phase
- (d) All of the above

- 54. Which of the following has got more heat capacity?
  - (a) Iron piece
- (b) Water
- (c) Gold piece
- (d) Benzene
- 55. When cone. H<sub>2</sub>SO<sub>4</sub> is added to dry KNO<sub>3</sub>, brown fumes are evolved. These fumes are due to
  - (a) SO<sub>3</sub>
- (b) O<sub>2</sub>
- (c) NO<sub>2</sub>
- $(d) N_2 O$
- 56. The polymer used in making plastic crockery is
  - (a) Decron
- (b) Nylon
- (c) Bakelite
- (d) Melamine
- 57. Vulcanization of rubber is carried out by adding 463
  - (a) Sulphur
- (b) Carbon
- (c) Ozone
- (d) Phosphorus
- 58. Which of the following is used in dating archaeological findings?
  - 235 U
- (b) 14 C
- (c)
- (d) 18 O
- 59. Which one of the following is not a true snake?
  - (a) Glass snake
- (b) Sea snake
- (c) Tree snake
- (d) Blind snake
- 60. Which one of the following set belongs to the class Mammalia?
  - (a) Lion, Hippopotamus, Penguin, Bat.
  - (b) Lion, Bat, Whale, Ostrich
  - (c) Hippopotamus, Penguin, Whale, Kangaroo
  - (d) Whale, Bat, Kangaroo, Hippopotamus
- 61. Where was wildlife institute of India established in 1982 for research and training programmes? (a) Bhubaneshwar
- (b) Delhi
- (c) Dehradun
- (d) Nilgiri
- 62. Which one of the following pairs belongs to cartilaginous fish ?
  - (a) Shark and Tuna
- (b) Shark and Ray
- (c) Skates and Hilsa
- (d) Ray and Eel
- 63. Which one of the following is not a true fish?
  - (a) Silver fish
- (b) Saw fish
- (c) Hammer fish
- (d) Sucker fish
- 64. Johann Gregor Mendel is famous for propounding
  - (a) Theory of mutation
  - (b) Laws of heredity
  - (c) Cell theory
  - (d) Theory of acquired characters

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(a) June 5 (b) April 7 (c) June 7 (d) July 11 67. Who said "The Simon Commission Report should be thrown on a heap of rubbish" (a) Mahatma Gandhi (b) Shivaswami Ayyar (c) Mohammad Ali Jinnah (d) Jawaharlal Nehru 68. The Marathas were defeated at Panipat because (a) The Marathas were not equal to Afghans in strength (c) The Marthas were considered alien by the local population 69. Which day was declared as the 'Direct Action Day' by the Muslim League? (a) 3rd September 1946 (b) 16th August 1946 (c) 16th May 1946 (d) 4th December 1946 70. When was Mahatma Gandhi arrested during the 'Quit India Movement' of 1942? (a) 7th August 1942 (b) 30th April 1942 (c) 9th August 1942 (d) 5th July 1942 71. Name the continent where 'Tundra' type of climate is not found (a) Europe (b) Asia (c) Africa (d) North America 72. If the temperature of a place increases suddenly, the relative humidity (a) Increases (b) Decreases (c) Remains constant (d) Fluctuates 73. Which one of the following is not the example of planetary winds? (a) Monsoon (b) Trade wind (c) Land and sea breezes (d) Chinook 74. The climate of North America is influenced during winter by the (a) Polar air masses (b) Warm air masses	(a) Monopoly (b) Perfect competition (c) Monopolistic competition (d) Oligopoly 76. "Supply creates its own demand" - Who said this? (a) J. B. Say (b) J. S. Mill (c) J. M. Keynes (d) Senior 77. The number of females per 1000 males in India's population (Census 2001) is (a) 900 (b) 929 (c) 933 (d) 945 78. The total number of nationalised banks in India is (a) 14 (b) 19 (c) 21 (d) 30 79. In which plan was self-reliance first emphasised (a) Second Plan (b) Third Plan (c) Fourth Plan (d) Fifth Plan 80. The full form of IRDA is (a) Insurance Regulatory and Development Authority (b) International Reconstruction and Development Association (c) India Road Development Agency (d) International Refinance and Development Association 81. International Monetary Fund helps India with (a) short term capital to hide over any temporary difficulty in Balance of Payments (b) long term capital for purposes of reconstruction and development (c) medium term capital to build up infrastructure (d) grants at subsidised rates to stimulate private investment 82. The demand curve for a Giffen good is (a) upward rising (b) downward falling (c) parallel to the quantity axis (d) parallel to the price axis 83. The articles 17 and 18 of constitution provide (a) social equality (b) economic equality (c) political equality (d) religious equality

(c) Continental air masses

75. Efficient allocation of resources is achieved to

(d) Tropical air masses

greatest extent under

65. Which of the following has no skeleton at all ?

66. World Health Day is observed on

(a) Star fish (c) Jelly fish (b) Sponge

(d) Silver fish

- 84. The constitution of India describes India as
  - (a) A Union of States
  - (b) Quasi-federal
  - (c) A federation of state and union territories
  - (d) A Unitary State
- 85. Being the non-member, who among the following can participate in the proceedings of either house of the Parliament without having right to vote?
  - (a) Chief Justice of India
  - (b) President of India
  - (c) Comptroller and Auditor General
  - (d) Attorney General
- 86. By which of the following modes can citizenship be acquired?
  - i. By Birth
- ii. Hereditary
- iii. By Registration
- iv. By Request
- (a) i and ii (c) ii and iii
- (b) i, ii and iii (d) iv, ii and iii
- 87. How many languages are contained in the VIIIth schedule of the Indian Constitution?
  - (a) 18
- (b) 22
- (c) 16
- (d) 12
- 88. Dr. Rajendra Prasad was elected as the first President of India by
  - (a) Electoral College
  - (b) People of India
  - (c) Constituent Assembly
  - (d) Parliament
- 89. In which of the following cases, the Supreme Court held that fundamental rights are unamendable?
  - (a) A. K. Gopalan's case
  - (b) Keshvananda Bharti's case(c) M. C. Mehta's case
  - (d) Golak Nath's case
- 90. Gandh ji believed tha
  - (a) End justifies means
  - (b) Means justify end
  - (c) Neither end justifies means nor means justify
  - (d) End and Means both should be justified
- 91. Match the personalities mentioned below, with the Activity(ies) they are associated with

## List-I

- 1. Pankaj Adwani
- 2. Kiran Majumdar Shaw

- 3. Mallika Sarabhai
- 4. Anjolie Ela Menon

#### List-II

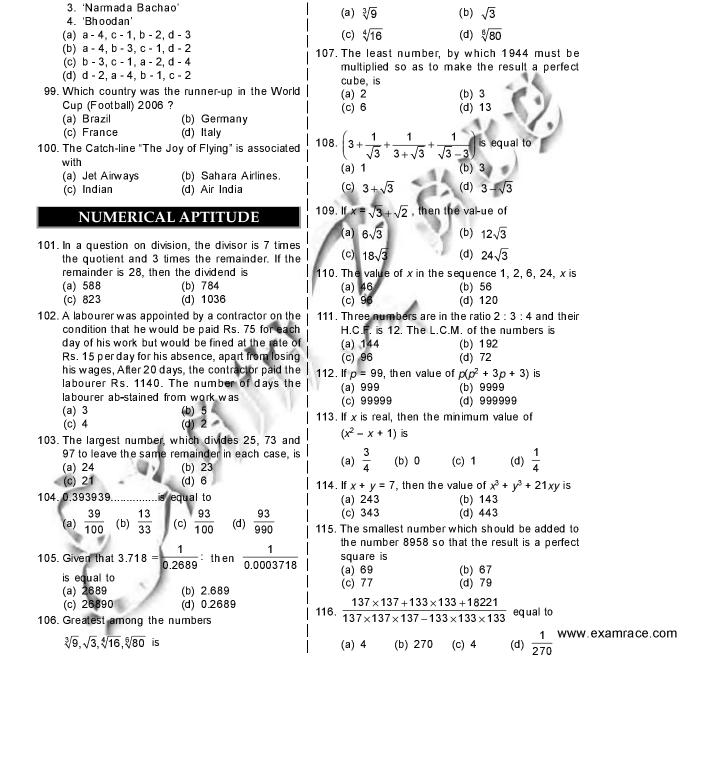
- a. Dancing b. Painting d. Biotechnology c. Snooker 2 3 (a) d а (b) а b h С (c) d (d) С
- 92. The book 'The Inheritance of Loss' has been written by
  - (a) Salman Rushdie
  - (b) Arundhati Roy
  - (c) Anita Desai
- (d) Kiran Desai
- 93. STTP stands for
  - (a) Special Thermal Power Project
  - (b) Semi Thermal Power Plant
  - (c) Super Thermal Power Plant
  - (d) Super Thermal Power Production
- 94. Thomas Cup is associated with
  - (b) Football (a) Hockey
  - (c) Badminton
- (d) Basket Ball
- 95. Who is the C.E.O. of Infosys Technologies ?
  - (a) Narayan Murthy
  - (b) Azim Premji
  - (c) Nandan M. Nilekani
  - (d) E. Shreedharan
- 96. Find the odd one
  - (b) Bill Clinton (a) George W Bush
  - (c) Jimmy Carter
- (d) Tony Blair
- 97. TRAI stands for
  - (a) Trans-Roadways Authority of India
  - (b) Telephone Regulatory Authority of India
  - (c) Transport & Roads Authority of India
  - (d) Telecom Regulatory Authority of India
- 98. With which 'Movement' the following were/are associated?

#### List-I

- a. Vinoba Bhave
- b. Medha Patkar
- c. Sunderlal Bahuguna
- d. Jaya Prakash Naravan

#### List-II

- 1. 'Chipko'
- 2. 'Sampurna Kranti'



118. A person started his journey in the morning. At	(a) 0.3885 (b) 388.5 (c) 38.85 (d) 3.885
11 a.m. he covered $\frac{3}{8}$ of the journey and on the	126. If $\frac{a}{b} + \frac{b}{a} = 11$ , then the value
same day at 4.30 p.m. he covered $\frac{5}{6}$ of the	(a) 0 (b) 1
joumey. He started his joumey at	(c) 2 (d) 3 127. (1 + 3 + 5 + 7 + 9 ++ 99) is equal to
(a) 6.00 a.m. (b) 3.30 a.m. (c) 7.00 a.m. (d) 6.30 a.m.	(a) 2050 (b) 2500
119. The sum of the H.C.F. and L.C.M. of two	(c) 2005 (d) 2002
numbers is 680 and their L.C.M. is 84 times their H.C.F. If one of the numbers is 56, then the other	128. (53 × 87 ÷ 159 × 21 + 106 × 25) is equal to (a) 16000 (b) 1060 (c) 10600 (d) 60100
number is (a) 64 (b) 72	129. The missing digit (,) in 1276, so that the number
(a) 64 (b) 72 (c) 96 (d) 80	is a perfect square, is
120. The greatest whole number, by which the	(a) 1 (b) 4 (c) 8 (d) 9
expression $n^4 + 6n^3 + 11n^2 + 6n + 24$ is divis ble	130. Dina can type 30 words in 1 minute and Dodo 25 words in 1 minute. 1st Dina typed for 1 minute,
for every natural number <i>n</i> , is (a) 6 (b) 24	then Dodo typed for 1 minute and so on. In this
(c) 12 (d) 48	way, typing alternately they typed 600 words.
	The time taken by them in typ-ing these 600 words was'
121. $\frac{3\sqrt{2}}{\sqrt{6}+\sqrt{3}} - \frac{2\sqrt{6}}{\sqrt{3}+1} + \frac{2\sqrt{3}}{\sqrt{6}+2}$ is equal to	(a) 22 minutes
$\sqrt{6} + \sqrt{3}  \sqrt{3} + 1  \sqrt{6} + 2$ (a) 3 (b) 2	(b) 21 minutes 48 seconds
(c) 0 (d) $\sqrt{3}$	(c) 21 minutes (d) 21 minutes 25 seconds
-1 10	131. A certain distance is covered by a vehicle at a
$122.\left(\frac{1}{3.5} + \frac{1}{5.7} + \frac{1}{7.9} + \frac{1}{9.11} + \frac{1}{11.13} + \frac{1}{13.15}\right)$	certain speed. If half of this distance is covered
	by another vehicle in double the time, the ratio of the speeds of the two ve-hicles is
is equal to (a) (b)	(a) 1:4 (b) 1:2
(c) (d) 5	(c) 2:1 (d) 4:1
123. The missing term of the sequence	132. The ratio of lengths of two trains is 5 : 3 and the ratio of their speeds is 6 : 5. The ratio of times
9, 12, 11, 14, 13, _, 15 is	taken by them to cross a pole is
(a) 12 (b) 16 (c) 10 (d) 17	(a) 5:6 (b) 11:8
124. If two numbers are each divided by the same	(c) 25: 18 (d) 27: 16
divisor, the remainders are respectively 3 and	133. The average of 10 numbers is 7. If each number is multiplied by 12, then the average of the new
<ol><li>If the sum of the two numbers be divided by the same divisor, the remainder is 2. The divisor</li></ol>	set of numbers will be
is	(a) 7 (b) 19 (c) 82 (d) 84

(b) 7

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 $\sqrt{12.25} + \sqrt{0.1225} + \sqrt{0.001225}$  is equal to

| 125. Given that  $\sqrt{1225}$  = 35; then

117. The sum of the squares of 2 numbers is 146 |

cube of the other number is

(a) 1111

(c) 1331

and the square root of one of them is,  $\sqrt{5}$  . The

(b) 1221

(d) 1441

(a) 61 kg (b) 51.5 kg	(c) 5% (d) 7:20%
(c) 52 kg (d) 51.2 kg	145. The population of a villagewas 9800. In a year,
137. From a class of 24 boys, a boy, aged 10 years,	with the increase An population of males by 8%
leaves the class and in his place a new boy is	and that of females by 5%, the population of the
admitted. As a result, the average age of the	village became 10458.
class is increased by 2 months. What is the age	What was the number of males in the village
of the new boy?	before increase ?
(a) 12 years (b) 15 years	(a) 4200 (b) 4410
(c) 14 years (d) 13 years	(c) 5600 (d) 6048
138. If the radius of a right circular cylinder is	ma L no
decreased by 50% and its height is increased	146. a : b = c : d, then $\frac{ma + nc}{mb + nd}$ is not equal to
by 60%, its volume will be decreased by	mo+na
(a) 10% (b) 60%	a c a+c c-a
(c) 40% (d) 20%	(a) $\frac{a}{b}$ (b) $\frac{c}{d}$ (c) $\frac{a+c}{b+d}$ (d) $\frac{c-a}{b-d}$
139. In an examination, 65% of the students passed	147. The ratio of the present ages of Rahul and
in Mathematics, 48% passed in Physics and	Rashmi is 2 : 1. The ratio of their ages after 30
30% passed in both. How much per cent of	years will be 7 : 6. What is the present age of
stu-dents failed in both the subjects?	Rahul?
(a) 17% (b) 43%	(a) 6 years (b) 10 years
(c) 13% (d) 47%	(c) 12 years (d) 20 years
140. The difference of two numbers is 15% of their	148. In an examination, the number of those who
sum. The ratio of the larger number to the	passed and the number of those who failed were
smaller number is	in the ratio 25 4. If five more had appeared and
(a) 23:17 (b) 11:9	the number of failures was 2 less than earlier.
(c) 17 : 11 (d) 23: 11	the ratio of passers to failures would have been
141. In a village, each of the 60% of families has a	22: 3. The number who appeared at the
cow; each of the 30% of families has a buffalo	examination, is
and each of the 15% of families has both a cow	(a) 145 (b) 150
and buffalo. In all there are 96 families in the	(c) 155 (d) 180
village. How many families do not have a cow	149. The income of A and B are in the ratio 5 : 3. Www.examrace.com
or a buffalo?	expenses of A, B and C are in the ratio 8 : 5 : 2.
(a) 20 (b) 24 (c) 26 (d) 28	expenses of A, B and O are in the ratio 0.0.2.

134. X has twice as much money as that of Y and Y | 142. p is six times as large as q. The per cent that q

has u0% more money than that of Z. If the average money of all of them is Rs. 110, then

135. The average age of 30 students is 9 years. If

136. If the average weight of 6 students is 50 kg; that

of 2 students is 51 kg; and that of 2 students is

55 kg; then the average weight of all students is

the age of their teacher is included, the average

age becomes 10 years. The age of the teacher

(b) 31

(d) 40

(b) Rs. 60

(d) Rs. 180

the money, which X has, is

(a) Rs. 55

(c) Rs. 90

(in years) is

(a) 27

(c) 35

is less than p, is

(a)  $88\frac{1}{3}$  (b) 70

is decreased by

(a) 0%

(c) 4%

tax is

(a) 6%

(c)  $63\frac{1}{3}$  (d) 50

(b) 2.5%

(d) 5%

143. The price of sugar is increased by 20%. As a result, a family has decreased its consump-tion

144. If the income tax is increased by 19%, the net income is reduced by 1%. The rate of income

by 20%. The expendi-ture of the family on sugar

150.	If C spends Rs. 2000 and B saves Rs. 700, then A saves  (a) Rs. 1500 (b) Rs. 1000 (c) Rs. 500 (d) Rs. 250  The ratio of A' to B is 4:5 and that of B to C is 2:3. If A equals 800, C equals (a) 1000 (b) 1200 (c) 1500 (c) (d) 2000	     	(c) Rs. 46000 Ramesh deposited Rs.	rate of interest is 49 early, the cash valu (b) Rs. 46824 (d) Rs. 50000 15600 in a fixed de	6 per ue of eposit	
151.	(c) 1500 (d) 2000  The length, breadth and height of a cuboid are in the ratio 1:2:3. If they are increased by 100%, 200% and 200% respectively, then, compared to the original volume the increase in the volume of the cuboid will be (a) 5 times (b) 18 times (c) 12 times (d) 17 times	           159.		ar, he adds his int . The interest at the (b) Rs. 1560 (d) Rs. 1872 lent at 10% per an	erest end	
152.	The sum of three numbers is 68. If the ratio of the first to the second be 2:3 and that of the second to the third 53, then the second number is  (a) 30 (b) 58  (c) 20 (d) 48	160.		0% was (b) Rs. 800 (d) Rs. 600		
153.	The number of students in three classes are in the ratio 2:3:5. If the number of students in each class is increased by 20 the ratio becomes 4:5:7. The total number of students before the increase was  (a) 80 (b) 90  (c) 100 (d) 120	/ 	simple interest. He got R 6 years. The annual rate (a) $2\frac{8}{21}\%$ (b) $2\frac{7}{20}\%$ (c) The compound interest if the rate of interest is	Rs. 4200 as interest e of interest was a $\frac{8}{21}\%$ (d) $4\frac{8}{21}$ on Rs. 2000 in 2 $\frac{4}{21}\%$ per annum fo	after % years r the	
	The price of sugar is increased by 20%. If the expenditure on sugar has to be kept the same as earlier, the ratio between the reduction in consumption and the original consumption is (a) $1:3$ (b) $1:4$ (c) $1:6$ (d) $1:5$	       <sub>162.</sub> 	` '	(b) Rs. 140.40 (d) Rs. 143.40 nple interest, treble	es of	
155.	If a:b:c=7:3:5, then (a + b + c): (2a + b - c) is equal to (a) 1:2 (b) 2:3 (c) 3:4 (d) 5:4	       163.	(a) 40 years	(b) 36 years (d) 25 years a watch is Rs. 80	00. A	
156.	A person lends 40% of his sum of money at 15% per annum, 50% of rest at 10% per annum and the rest: at 18% per annum rate of interest. What would be the annual rate of interest, if the interest	       	` '	eing 10%. The se	cond	
157	is cal-culated on the whole sum? (a) 13.4% (b) 14.33% (c) 14.4% (d) 13.33% A man buys a scooter on making a cash down	164.   	At what rate per annun compound interest of interest being compoun	Rs. 5044 in 9 mo	onths	evamrace com
137.	payment of Rs. 16224 and promises to pay two		• /	(b) 32% (d) 80%	vv vv vv	.examrace.com

165. How much per cent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 20% on the marked price, he gains 10%?  (a) 30% (b) 10% (c) 27.5% (d) 37.5%	been completed. How many men can he discharge so that the project may be complet-ed exactly on time?  (a) 40 (b) 20 (c) 30 (d) 15  174. Two men undertook to do a job for Rs. 1400.
166. A dealer buys a car listed at Rs. 200000 at successive discounts of 5% and 10%. If he sells the car for Rs. 179550, then his profit is  (a) 10% (b) 9% (c) 5% (d) 4%	One of them alone can do it alone in 7 days, and the other in 8 days. With the assistance of a boy they together completed the work in 3 days. How much money will the boy get?  (a) Rs. 300 (b) Rs. 325 (c) Rs. 275 (d) Rs. 250
167. A trader marked an article at 10% above its cost price. For selling, he allowed a certain discounts and suffered a loss of 1%. The discount was  (a) 9% (b) 10%  (c) 11% (d) 12%	175. A man can row at a speed of $4\frac{1}{2}$ kms/hr in still water. If he takes 2 times as long to row a distance upstream as to row the same distance
168. An article listed at Rs. 800 is sold at successive discounts of 25% and 15%. The buyer desires to sell it off at a profit of 20% after allowing a 10% discount. What would be his list price?  (a) Rs. 620 (b) Rs. 600 (c) Rs. 640 (d) Rs. 680	downstream, then, the speed of stream (in km/hr) is  (a) 1 (b) 1.5 (c) 2 (d) 2.5  176. Two trains travel in the same direction at the
169. 60 men could complete a work in 250 days. They worked together for 200 days. After that the work had to be stopped for 10 days due to bad weather. How many more men should be engaged to complete the work in time?  (a) 10 (b) 15 (c) 18 (d) 20	speeds of 56 km/h and 29 km/h respec-tively. The faster train pass-es a man in the slower train in 10 seconds. The length of the faster train (in metres) is  (a) 100 (b) 80 (c) 75 (d) 120
170. A alone can complete a work in 12 days. A and B together can complete it in 8 days. How long will B alone take to complete the work? (a) 24 days (b) 18 days (c) 16 days (d) 20 days	177. A train starts from A at 7 a.m. towards B with speed 50 km/h. Another train from B starts at 8 a.m. with speed 60 km/h towards A. Both of them meet at 10 a.m. at C. The ratio of the distance AC to BC is  (a) 5:6  (b) 5:4
171. 12 pumps working 6 hours a day can empty a completely filled reservoir in 15 days. How many such pumps working 9 hours a day will empty the same reservoir in 12 days?  (a) 15 (b) 9 (c) 10 (d) 12  172. A tap takes 36 hours extra to fill a tank due to a	(c) 6:5 (d) 4:5  178. Ram arrives at a Bank 15 minutes earlier than scheduled time if he drives his car at 42 km/h. If he drives car at 35 km/h he arrives 5 minutes late. The distance of the Bank, from his starting point is
leakage equivalent to half of its inflow. The inflow can fill the tank in how many hours?  (a) 36 (b) 24 (c) 30 (d) 18  173. A contractor undertook to complete a project in 90 days and employed 60 men on it. After 60	(a) 70 km (b) 210 km (c) 72 km (d) 60 km  179. A and B run a 5 km race on a round course of 400 m. If their speeds are in the ratio 5:4, the
days, he found that $\frac{3}{4}$ of the work has already	number of times. the winner passes the other. is (a) 1 (b) 2 (c) 3 (d) 5  www.examrace.com

180. If a train takes 6 seconds to cross a pole and if the length of train is 120 metres, then the speed of the train in km/ hr will be  (a) 60 (b) 72 (c) 70 (d) 80  181. The ratio of cost price and selling price of an article is 8 9. The profit per cent is  (a) 20 (b) 15 (c) 12.5 (d) 10  182. A man buys pencils at the rate of 6 for Rs. 5 and sells them at 5 for Rs. 6. His profit per cent is  (a) 30 (b) 35 (c) 40 (d) 44  183. A coconut merchant finds that the cost price of 2750 coconuts is the same as the selling price of 2500 coconuts. The loss or gain per cent is  (a) 5% loss (b) 15% loss (c) 20% gain (d) 10% gain  184. A person buys 100 cups at Rs. 10 each. On the way 10 cups are broken. He sells the remaining cups at Rs. 11 each. His loss per cent is  (a) \frac{1}{2} (b) 1 (c) 1\frac{1}{2} (d) 2  185. By selling 144 hens Mahesh suffered a loss equal to the selling price of 6 hens. His loss per cent is  (a) 4 (b) 3 (c) 9 (d) 4\frac{1}{2}  186. A car and a jeep were sold for Rs. 121000 each. The car was sold at a loss of 20% while the jeep at a gain of 20%. The entire transaction resulted in (a) neither loss nor gain (b) gain of Rs. 1000  (c) loss of Rs. 1000  (d) gain of Rs. 500  187. If the sides of an equilateral triangle are increased by 20%, 30% and 50% respectively to form a new triangle, the increase in the perimeter of the equilateral triangle is  (a) 25% (b) 333%  (c) 75% (d) 100%  188. If the radius of a sphere is doubled, its volume becomes  (a) double (b) four times  (c) six times (d) eight times	189. If each side of a rectangle is increased by 50%, its area will be increased by (a) 50%, (b) 125% (c) 100% (d) 250% (d) 250% (e) 100% (d) 250% (e) 100% (d) 250% (e) 100% (e) Rs. 9000 (e) Rs. 9000 (e) Rs. 9000 (e) Rs. 7500 (b) Rs. 9000 (c) Rs. 7500 (d) Rs. 1900 (e) Rs. 9000 (e) Rs. 7500 (d) Rs. 1900 (e) Rs. 9000 (e) Rs. 7500 (e) Rs. 9000 (e) Rs. 9000 (e) Rs. 9000 (e) Rs. 9000 (e) Rs. 7500 (f) Rs. 9000 (e) Rs. 7500 (e) Rs. 9000 (e) Rs. 9000 (e) Rs. 7500 (e) Rs. 9000 (f) Rs. 9000 (e) Rs. 7500 (f) Rs. 9000 (e) Rs. 7500 (e) Rs. 9000
., , ,	(a) 10 (b) 0 (c) 32 (d) 4

**Directions (197-200):** Study the table and answer the questions The table given here shows the highest and average marks of a class in four subjects in four years. The maximum marks in each subject are 100.

average	e marks	of a cla	ass in fo	our si	ubjects in	four years	. The maxi	mum marks	in each su	ıbject are	100.
Year						<u> </u>	SUBJEC	TS			
	English Maths				hs	Science			cial Scie	nce	
	Highe	st A	verage	Н	ighest	Average	Highes	t Averaç	ge High	est A	verage
1993	80		70		94	60	89	70	65	- 6	55
1994	82		65		85	62	95	64	66	100	58
1995	71		56		92	68	97	68	68	20 7	48
1996	75		52		91	64	92	75	77	K 1	58
197. What is the overall average of marks in the four subjects in the year 1995?  (a) 63 (b) 64 (c) 65 (d) 60  198. Supposing that there were 40 students in science in the year 1995, how much total of marks did they receive combined together?  (a) 2800 (b) 2720 (c) 2560 (d) 3000						199. In which year, the difference between the highest and the average marks in Mathemat-ics was maximum?     (a) 1995					
							ISWERS	5			
1	(d)	2 (a)	3. (	(d)	4. (d)	5. (d)	6. (c)	7. (d)	8. (b)	9. (a)	10. (b)
		2. (a) 12. (d)	13. (		14. (c)	15. (a)	16. (c)	17. (u)	18. (b)	19. (d)	
		22. (a)	23.		24. (b)	25. (d)	26. (b)	27. (c)	28. (d)	29. (c)	
	• •	32. (a)	33.	• •	34. (d)	35. (b)	36. (a)	37. (d)	38. (d)	39. (b)	` ,
41.		42. (c)	43.	_	44. (b)	45. (d)	46. (a)	47. (a)	48. (a)	49. (a)	` '
	• •	52. (d)	53.		54. (b)	55. (c)		57. (a)	58. (b)	59. (a)	` '
61.		62. (b)	63.	_	64. (b)	65. (d)	66. (b)	67. (a)	68. (b)	69. (b)	` '
		72. (b)	73.		74. (d)	75. (b)	76. (a)	77. (c)	78. (b)	79. (d)	
		82. (a)	83.		84. (a)	85. (d)	86. (b)	87. (b)	88. (c)	89. (d)	
91.		92. (d)	93.		94. (c)	95. (c)	96. (d)	97. (d)	98. (b)	99. (c)	
101.		02. (c)	103.		104. (b)	105. (a)	106. (a)	107. (b)	108. (b)	109. (c)	
111.	(a) 1	12. (d)	113.	(a)	114. (c)	115. (b)	116. (c)	117. (c)	118. (d)	119. (c)	120. (d)
121.	(c) 1	22. (d)	123.	(b)	124. (c)	125. (d)	126. (a)	127. (b)	128. (c)	129. (d)	130. (b)

133. (d) 134. (d) 135. (d) 136. (d) 137. (c) 138. (b)

174. (c) 175. (b) 176. (c) 177. (b)

165. (d)

154. (c) 155. (d) 156. (c) 157. (b) 158. (d)

166. (c)

145. (c) 146. (d) 147. (c) 148. (a)

167. (b)

139. (a)

149. (a)

159. (a)

169. (b)

179. (c)

189. (b)

199. (b)

168. (d)

178. (a)

188. (d)

140. (a)

150. (c)

160. (a)

170. (a)

180. (b)

200. (c)

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131. (d)

161. (a)

132. (c)

162. (c)

171. (c) 172. (d) 173. (b)

143. (c)

153. (c)

163. (c)

144. (c)

164. (a)

181. (c) 182. (d) 183. (d) 184. (b) 185. (a) 186. (c) 187. (b)

191. (a) 192. (b) 193. (c) 194. (a) 195. (c) 196. (a) 197. (d) 198 (b)

141. (b) 142. (a)

151. (d) 152. (a)