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SSC Graduate Level (Tier- I) Exam 2011-IST Shift: Solved Question Paper



SSC GRADUATE LEVEL (Tier-I) Exam 2011 (1st Shift) PART-A **REASONING ABILITY**

Directions (1-9): In each of the following questions select the related letters/word/number from the given alternatives:

- CFIL: ORUX:: DGJM:
 - (1) HJLN
 - (2) NQST
 - (3) PSVY
 - (4) RTVX -
- 2. BEHK: YVSP::
 - DGJM :?
 - (1) JGDA
 - (2) ROLI
 - (3) WTQN
 - (4) ZWTQ
- 3. 24:60::120:?
 - (1) 160
- (2)220
- (3)300
- (4) 108
- 4. 392:28::722:?
 - . (1) 18
- (2)28
- (3)38
- (4) 48
- 5. 123:36::221:?
 - (1) 52
- (2)69(4)25
- (3)72
- 6. Timid: Ass:: Cunning:?
 - (1) Ant
- .. (2) Fox
- (3) Rabbit
- (4) Horse
- 7. Ecstasy % Gloom % % \
 - (1) Congratulations:

Occasion

- (2) Diligent : Successful
- (3) Measure : Scale
- (4) Humiliation:

Exaltation

- Architect : Building : : 8.
 - Sculptor:?
 - (1) Museum
 - (2) Stone
 - (3) Chisel
 - (4) Statue
- 9. MKQO:LNPR::?:

XVTZ

- (1) YSUW
- (2) SVWY
- (3) VTWY
- (4) WYTS

Directions (10-15): In each of the following questions, find the odd number/letters/word from the given alternatives:

- 10. (1) PQXZ
 - (2) BCQN
 - (3) VTWY
 - (4) MNPR
- 11. (1) **ABYZ**
 - (2) CDWX
 - (3) EFUV
 - (4) GHTV
- 12. (1)626
 - (2)841

 - (3)962
 - (4) 1090
- 13. (1) 5720
 - (2)6710
 - (3)2640
 - (4) 4270
- 14. (1) Swimming
 - (2) Sailing
 - (3) Diving
 - (4) Driving



- 15. (1) Perception
 - (2) Discernment
 - (3) Penetration
 - (4) Insinuation

Directions: In the following question from among the given alternatives select the one in which the set of numbers is most like the set of numbers set of numbers given in the questions.

Given set: (4, 25, 81)

- 16. (1) (4, 36, 79)
 - (2) (9, 48, 81)
 - (3) (16, 64, 100)
 - (4) (9, 49, 143)
- 17. In the following question, number of letters are skipped in between by a particular rule. Which of the following series observes the rule?
 - (1) BAFHTU
 - (2) ACEGJL
 - (3) ACFJOU
 - (4) ADFHJL

Directions: In the following question, which one of the given responses would be a meaningful order of the following?

- 18. 1. Ocean
 - 2. Rivulet
 - 3. Sea
 - 4. Glacier
 - 5. River
 - (1) 5, 2, 3, 1, 4
 - (2) 4, 2, 5, 3, 1
 - (3) 5, 2, 3, 4, 1
 - (4) 4, 2, 1, 3, 5

Directions: Arrange the following words as per order in the dictionary

19. 1. Preposition

- 2. Preparatively
- 3. Preposterous
- 4. Preponderate
- 5. Prepossess
- (1) 2, 4, 1, 5, 3
- (2) 1, 5, 2, 4, 3
- (3) 5, 4, 2, 3, 1
- (4) 4, 2, 5, 1, 3
- 20. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

ac_cab_baca_aba_ aca

- (1) acbcc
- (1) acocc (2) aacbc
- (3) babbb
- (4) bcbba

Directions (21-24): In each of the following questions, a series is given, with one/two term(s) missing. Choose the correct alternative from the given ones that will complete the series.

- 21. ___ DREQ, GUHT,
 - **JXKW**
 - (1) EFRS
 - (2) TGSF
 - (3) JWVI
 - (4) AOBN
- 22. 56, 90, 132, 184, 248, ____
 - (1)368
 - (2)316
 - (3)362
 - (4)326
- 23. 0, 4, 8, 24, 64, 176, ____?
 - (1) 180
 - (2)480
 - (3)280
 - (4)300



- 24. WTPMIFB ?
 - (1) **ŽV**
 - (2) XU
 - (3) YU
 - (4) YV
- 25. Mrs. Susheela celebrated her wedding anniversary on Tuesday, 30th September 1997. When will she celebrate her next wedding anniversary on the same day?
 - 1. 30 September 2003
 - 2. 30 September 2004
 - 3. 30 September 2002
 - 4. 30 October 2003
- 26. A clock gains five minutes every hour. What will t angle traversed by the shand in one minute?
 - $(1) 360^{\circ}$
 - (2) 1, 5, 2, 4, 3
 - (3) 5, 4, 2, 3, 1
 - (4) 4, 2, 5, 1, 3
- 27. B is twice as old as A but twice younger than F. C is half the age of A but is twice older than D. Who is the second oldest?
 - (1)B
- (2) F
- (3) D
- (4) C
- 28. A two member committee comprising of one male and one female member is to be constituted out of five males and three females. Amongst the females, Ms. A refuses to be a member of the committee in which Mr. B is taken as the member. In how many. ways different can committee be constituted?

- (1) 11
- (2)12
- (3) 13
- (4) 14
- 29. Find the wrong number in the series.
 - 6, 12, 21, 32, 45, 60
 - (1)6
- (2) 12
- (3)21
- (4)32
- 30. Ramesh ranks 13t in a class of 53 students. There are 5 students below Suresh rankwise. How many students are there between Ramesh and Suresh?
 - (1) 12
- (2) 14
- (3) 15
- (4) 16
- 31. Naresh's age is 4 years less than twice the age of his brother. Which of the following represents the equation to find his age?
 - (1) 2x+4
- (2) 4x+2
- (3) x-4
- (4) 2x-4
- 32. Suresh's sister is the wife of Ram. Ram is Rani's brother. Ram's father is Madhur. Sheetal is Ram's grandmother. Reema is Sheetal's daughter-in-law. Rohit is Rani's brother's son. Who is Rohit to Suresh?
 - (1) Brother-in-law
 - (2) Son
 - (3) Brother
 - (4) Nephew
- 33. In a survey, 70% of these surveyed owned a car and 75% of those surveyed owned a TV. If 55% owned both a car and a TV, what percent of those surveyed did not own either a car or a TV?



- (2)20%(1)25%(4) 5%
- (3) 10%
- If DANCE is coded as 34. GXOZH then how will RIGHT be coded?
 - (1) UFJEW
 - (2) SGKFX
 - (3) UFJWE
 - (4) UFWJE
- If LOSE is coded as 1357 and 35. GAIN is coded as 2468, what do the figures 84615 stand for?
 - (1) NAILS
 - (2) SNAIL
 - (3) LANES
 - (4) SLAIN
- A statement is given followed 36. b four alternative arguments. Select the alternative which is most appropriate.

Statement: Is it necessary that education should be job oriented?

Arguments:

- Yes, the aim of education is to prepare persons for earning.
- Yes, educated person should II. stand on is own feet after completion of education
- No. education should be for III. sake of knowledge only.
- No, one may take up IV. agriculture where education is not necessary.
- Only I and II arguments are (1) strong

- Only III and IV arguments are **(2)** strong
- Only I argument is strong (3)
- Only I and III arguments are (4) strong
- A man started walking West. 37. He turned right, then right again and finally turned left. Towards which direction was he walking now?
 - (1) North
- (2) South
- (3) West
- (4) East
- Sudha travels 8 km to the 38. South. Then she turns to the right and walks 4 km. Then again she turns to her right and moves 8 km forward. How many km away is she from the starting point?
 - (1)7
- (2)6
- (3)4
- (4) 8
- From the given alternative 39. words, select the word which cannot be formed using the letters of the given word: 'COMPREHENSION'
 - (1) COMPRISE
 - (2) PENSION
 - (3) ONION
 - (4) PREACH
- From the given alternative 40. words, select the word which can be formed using the letters of the given word: 'MULTIPLICATION'
 - (1) MUTUAL
 - (2) APPLICATION
 - (3) LIMITATION
 - (4) NOTION

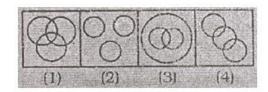
Directions (41-42): In each of the following questions, select the missing number from the given responses.

1	6	5 \		
,	125	2)		
(1) 12'	7	(2)	31
. (3) 21	7	(4)	32
42.	2	1	2	
	21	22	.?	
	1	2	5	
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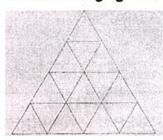
- (1) 40
- (2) 48
- (3) 50
- (4) 36
- 43. If '_' stands for division '+' stands for subtraction, '+' stands for multiplication' 'x' stands for addition, then which one of the following equations is correct?
 - (1) $70-2+4 \div 4 \div 5 \times = 44$
 - (2) $70-2+4 \div 5 \times 6 = 21$
 - (3) $70-2+4 \div 5 \times 6 = 341$
 - (4) $70-2+4 \div 5 \times 6 = 36$
- 44. The school result is increasing year after year. Forecast the result of 2012 from the following information.

Year →	2006	2007	2008	2009	2010	2011	2012
Result →	34 25%	36.75%	30.75%	43.25%	47.2\$3.	51 75%	1

- (1) 51.75%
- (2) 56.75%
- (3) 48.00%
- (4) 57.25%
- 45. Which diagram correctly represents the relationship between politicians, poets and women?



46. How many triangles are there in the following figures?

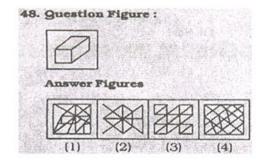


- (1) 29
- (2) 27
- (3) 23
- (4) 30
- 47. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

If $324 \times 289 = 35$, $441 \times 484 = 43$, $625 \times 400 = 45$, find the value of 256×729 .

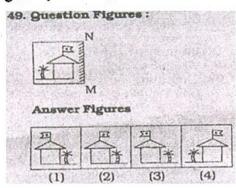
- (1) 33
- (2) 35
- (3) 43
- (4) 34

Directions: From the given answer figures, select the one in which the question figure in hidden/embedded.

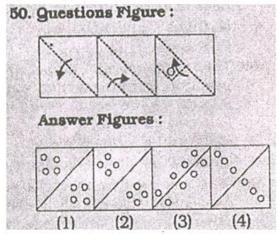




Directions: If a mirror is placed on the line MN< then which of the answer figures is the correct image of the given question figure?



Directions: A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



PART-B
GENERAL AWARENESS

51. In the budget fro 2011-12, the fiscal deficit (% of GDP) for 2011-12 has been projected at

- (1) 5.1 (2) 5 (3) 4.6 (4) 3
- 52. Which was described t
 B. R. Ambedkar a:
 'heart and soul' o:
 Constitution?
 - (1) Right to Equality
 - (2) Right against Expl-
 - (3) Right to Constitutic Remedies
 - (4) Right to Freedom (Religion
- 53. Which is not the conce the local government?
 - (1) Public Health
 - (2) Sanitation
 - (3) Law and Order
 - (4) Public Utility Servi
- 54. In India, the concept of citizenship is adopted f
 - (1) England
 - (2) U.S.A.
 - (3) Canada
 - (4) France
- 55. Who had proposed part democracy in India?
 - (1) Jaya Prakash Naray
 - (2) Mahatma Gandhi
 - (3) Vinoba Bhave
 - (4) S. A. Dange
- 56. Disinvestment in Publi Sector is called
 - (1) Liberalisation
 - (2) Globalisation
 - (3) Industrialisation
 - (4) Privatisation
- 57. 'Darwin finches' refere group of
 - (1) Fishes
 - (2) Lizards
 - (3) Birds
 - (4) Amphibians



- 58. An individual's actual standard of living can be assessed by
 - (1) Gross National Income
 - (2) Per Capita Income
 - (3) Net National Income
 - (4) Disposable Personal Income
- 59. As announced by the Finance Minister in his budget speech on 28th February 2011, with a view to assist States in modernizing their stamp and registration administration, Estamping is expected to be rolled out in all the districts of different States in a period of
 - (1) One year
 - (2) Two years
 - (3) Three years
 - (4) Five years
- 60. Which Sikh Guru called himself the 'Sachcha Badshah'?
 - (1) Guru Gobind Singh
 - (2) Guru Hargovind
 - (3) Guru Tegh Bahadur
 - (4) Guru Arjan Dev
- 61. The Civil Disobedience
 Movement was launched by
 Mahatma Gandhi in
 - (1) 1928
- (2) 1930
- (3) 1931
- (4) 1922
- 62. What is the maximum strength prescribed for State Legislative Assemblies?
 - (1)350
- (2)600
- (3)500
- (4) 750
- 63. Fa-Hein visited India during reign of
 - (1) Chandragupta I
 - (2) Samudragupta

- (3) Ramagupta
- (4) Kumargupta
- 64. At which place in Bengal was the East India Company given permission to trade and build a factory by the Mughals in 1651?
 - (1) Calcutta
 - (2) Cassim Bazar
 - (3) Singur
 - (4) Burdwan
- 65. Diu is an island of
 - (1) Daman
 - (2) Goa
 - (3) Gujarat
 - (4) Maharashtra
- 66. Which from the following is a land-locked sea?
 - (1) Red Sea
 - (2) Timor Sea
 - (3) North Sea
 - (4) Aral Sea
- 67. Shivasamudram Falls is found in the course of river
 - (1) Krishna
 - (2) Godavari
 - (3) Cauvery
 - (4) Mahanadi
- 68. Who gave the slogan "Inquilab Zindabad"?
 - (1) Chandrashekhar Azad
 - (2) Subhash Chandra Bose
 - (3) Bhagat Singh
 - (4) Iqbal
- 69. The position of Indian
 Railways network in the
 world is
 - (1) second
 - (2) third
 - (3) fourth
 - (4) fifth



(3) Indian Iron & Steel Co. 70. The oldest international airline Ltd., Burnpur (4) Indian Statistical Institute, (1) Dutch KLM Calcutta (2) Air Canada The dried flower buds are (3) Qantas Airwayś 75. used as a spice in (4) Air Sahara (1) Cardamom Which of the following can be 71. (2) Cinnamon used to absorb neutrons to (3) Cloves control the chain reaction (4) Saffron during nuclear fission? 77. The tissue in man where no (1) Boron cell division occurs after birth (2) Heavy water is (3) Uranium (1) skeletol (4) Plutonium (2) nerves Hydrogen Bomb is based on 72. (3) connective the principle of (4) germinal (1) controlled fission reaction DNA fingerprints is used to 78. (2) fission reaction identify the (3) controlled fusion reaction (1) Parents (4) uncontrolled fusion (2) Rapist reaction (3) Thieves Troposphere is the hottest part 73. (4) All of the above of the atmosphere The normal cholesterol level 79. (1) because it is closest to the in human blood is (1) 80 - 120 mg%(2) there are changed particles (2) 120 - 140 mg%in it (3) 140 - 180 mg%(3) it is heated by the Earth's (4) 180 - 200 mg %surface Which of the following are 80. (4) heat is generated in it warm-blooded animals? The outermost layer of the 74. (1) Whales Sun is called (2) Whale Sharks (1) Chromosphere (3) Alytes (2) Photosphere (4) Draco (3) Corona 81. Syrinx is the voice box in (4) Lithosphere (1) Amphibians Where was India's first 75. (2) Reptiles computer installed? (3) Birds (1) Indian Institute of (4) Mammals Technology, Delhi The largest ecosystem of the 82. (2) Indian Institute of Science, Earth is Bangalore



	*		
	(1) Biome		(3) five feet
	(2) Hydrosphere		(4) eight feet
	(3) Lithosphere	88.	What is the commonly used
	(4) Biosphere		unit for measuring the speed
83.	In a food shair the		of data transmission?
65.	In a food chain, the solar		(1) Mega Hertz
	energy utilized by plants is		(2) Characters per second
	only		(3) Bits per second
	(1) 10 per cent		(4) Nano seconds
	(2) 1 per cent	89.	Which type of reaction
	(3) 0.1 per cent	07.	
0.4	(4) 0.01 per cent		produces the most harmful radiation?
84.	Supersonic jet causes		
	pollution by thinning of		(1) Fusion reaction
	(1) O3 layer		(2) Fission reaction
	(2) O2 layer		(3) Chemical reaction
	(3) SO2 layer	90.	(4) Photo-chemical reaction
	(4) CO2 layer	90.	Which type of glass is used
85.	OTEC stands for		for making glass reinforced
	(1) Ocean Thermal Energy		plastic?
	Conservation		(1) Pyrex glass
	(2) Oil and Thermal Energy		(2) Flint glass
	Conservation		(3) Quartz glass
	(3) Oil and Thermal Energy		(4) Fibre glass
	Convention	91.	Which of the following metals
	(4) Ocean Thermal Energy		causes Itai - Itai disease?
	Conversion		(1) Cadmium
86.	As per Railway Budget for		(2) Chromium
	2011-12, the senior citizen		(3) Cobalt
	concession for men has been		(4) Copper
	increased from	92.	Glycol is added to aviation
	(1) 25 to 30%		gasoline because it
	(2) 30 to 40%		(1) reduces evaporation of
	(3) 40 to 50%		petrol
	(4) 30 to 50%		(2) increases efficiency of
87.	The monster earthquake-cum-		petrol
	tsunami which hit Japan on		(3) prevents freezing of petrol
	March 11, 2011 has moved		(4) reduces consumption of
	the country's main island,		petrol
	Honshu, by about	93.	Who invented pencillin?
	(1) two feet		(1) Alxender Fleming
	(2) three feet		(2) Louis Pasteur
			(3) Dreser
	. *		(4) Edward Jenner



- 94. 2018 FIFA World Cup would be held in
 - (1) Russia
 - (2) Qatar
 - (3) France
 - (4) Netherlands
- 95. Who of the following was not the recipient of Nobel Prize in Economics 2010?
 - (1) Peter A. Daimond
 - (2) Christopher Pissarides
 - (3) Lui Xiaobo
 - (4) Dale Mortensen
- 96. Which troubled model was recalled recently by the Indian automobile giant Maruti Suzuki for replacement of faulty fuel pump gasket?
 - (1) Maruti 800
 - (2) Maruti A-star
 - (3) Wagon R
 - (4) Baleno
- 97. As a part of Human Resource
 Development Ministry's
 'brain gain' policy to attract
 global talent, 14 world class
 universities to attract global
 talents are proposed to be set
 up in various states. Name the
 state from the following
 where no university of the
 aforesaid type is proposed to
 be located
 - (1) Punjab
 - (2) Bihar
 - (3) Rajasthan
 - (4) Uttaranchal
- 98. Who discovered South Pole?
 - (1) Robert Peary
 - (2) Amundsen
 - (3) John Cabot
 - (4) Tasman

- 99. Which of the following folk dances is associated with Rajasthan?
 - (1) Rauf
 - (2) Jhora
 - (3) Veedhi
 - (4) Suisini
- 100. Which of the following books is authored by V.S. Naipaul?
 - (1) The Rediscovery of India
 - (2) A house for Mr. Biswas
 - (3) Witness the Night
 - (4) Tender Hooks

PART-C NUMERICAL APTITUDE

101. If p = 124,

$$3\sqrt{p(p^2+3p+3)+1}=?$$

- (1) 5
- (2) 7
- (3) 123
- (4) 125

102. If $\sqrt{1 - \frac{x^3}{100} = \frac{3}{5}}$, then x

equals

- (1) 2
- (2) 4
- (3) 16
- $(4) (136)^{1/3}$
- by 18 and another by 21 and added the products. Which one of the following could be the sum?
 - (1) 2007
- (2) 2008
- (3) 2006
- (4) 2002
- 104. The product of two numbers is 45 and their difference is 4. The sum of squares of the two numbers is
 - (1) 135
- (2) 240



- (3) 73
- (4) 106

105.

$$\sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + \sqrt{169}}}}}$$
= ?

- (1)
- (2) 6
- (3)
- (4) 10
- 106. The square root of $14 + 6\sqrt{5}$ is
 - (1) $2 + \sqrt{5}$
- (2) $3 + \sqrt{5}$
- (3) $5 + \sqrt{3}$
- (4) $3+2 + \sqrt{5}$
- 107. When 2³¹ is divided by 5 the remainder is
 - (1) 4
- · (2) 3
- (3) 2
- (4) 1
- 108. The value of

$$1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{2}{3}}}}}i$$

- (1) <u>21</u>
- (2) $\frac{17}{2}$
- (3) <u>34</u>
- $\begin{array}{cc} (4) & \overline{8} \\ \underline{5} \end{array}$
- 109. The unit digit in the product $(122)^{173}$ is
 - (1) 2
- (2) 4
- (3) 6
- (4) 8

110. The value of

$$\frac{2+\sqrt{3}}{2-\sqrt{3}} + \frac{2-\sqrt{3}}{2+\sqrt{3}} + \frac{\sqrt{3}+1}{\sqrt{3}-1} is$$

- (1) 16
- (2) $4 \sqrt{3}$
- +√3
- . .
- (4) $2 + \sqrt{3}$
- 111. If a * b = 2a + 3b ab, then the value of (3 * 5 + 5 * 3) is
 - (1) 10
- (2) 6
- (3) 4
- (4) 2
- 112. Simplify:

$0.0347 \times 0.0347 \times 0.0347 + (0.9653)^3$

 $(0.0347)^2 - (0.347)(0.09653) + (0.9653)^2$

- (1) 0.9306
- (2) 1.0009
- (3) 1.0050
- (4) 1
- 15
- 113. A copper wire is bent form of an equilateral triangle and has area $121 \sqrt{3} \text{ cm}^2$. If the same wire is bent into the form of a circle, the area (in cm²) enclosed by the wire is (Take $\pi = 22/7$)
 - (1) 364.5
- (2) 293.5
- (3) 346.5
- (4) 639.5
- 114. A child reshapes a cone made up of clay of height 24 cm and radius 6cm into a sphere. The radius (in cm) of the sphere is
 - $(1) \quad 6$
- (2) 12
- (3) 24
- (4) 48
- 115. Water flows into a tank which is 200m long and 150m wide, through a pipe of cross-section 0.3m x 0.2m at 20 km/hour. Then the time (in



hours) for the water level in the tank to reach 8m is

- (1) 50
- (2) 120
- (3) 150
- (4) 200
- 116. The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is
 - (1) 1
- (2) 2
- (3) 3
- (4) 4
- 117. Two equal vessels are filled with the mixtures of water and milk in the ratio of 3:4 and 5:3 respectively. If the mixtures are poured into a third vessel, the ratio of water and milk in the third vessel will be
 - (1) 15:12
- (2) 53:59
- (3) 20:9
- (4) 59:53
- 118. I am three times as old as son, 15 years hence, I will be two as old as my son. The sum of our ages is
 - (1) 48 years
- (2) 60 years
- (3) 64 years
- (4) 72 years
- simultaneously at 11 am. They ring at regular intervals of 20 minutes, 30 minutes, 40 minutes respectively. The time when all the three ring together next is
 - (1) 2 pm
- (2) 1 pm
- (3) 1.15 pm
- (4) 1.30 pm
- 120. A and B together can do a work in 12 days. B and C together do it in 15 days. If A's efficiency is twice that of C, then the days required for B alone to finish the work is
 - (1) 60
- (2) 30
- (3) 20
- (4) 15

- 121. A and B can do a work in 12 days, B and C can do the same work in 15 days, C and A can do the same work in 20 days.

 The time taken by A, B and C to do the same work is
 - (1) 5 days
- (2) 10 days
- (3) 15 days
- (4) 20 days
- 122. A is 50% as efficient as B, C does half of the work done by A and B together. If Ca alone does the work in 20 days, then A, B and C together can do the work
 - (1) $5\frac{2}{3}$ days
- $(2) \quad 6\frac{2}{3} days$
- (3) 6 days
- (4) 7 days
- 123. The ratio of the volumes of water and glycering in 240cc of a mixture is 1:3. The quantity of water (in cc) that should be added to the mixture so that the new ratio of the volumes of water and glycerine becomes 2:3 is
 - (1) 55
- (2) 60
- (3) 62.5
- (4) 64
- 124. At present, the ratio of the ages of Maya and Chhaya is 6:5 and fifteen years from now, the ratio will get changed to 9:8 Maya's present age is
 - (1) 21 years
- (2) 24 years
- (3) 30 years
- (4) 40 years
- 125. The ratio of the income to the expenditure of a family is 10:7. If the family's expenses are Rs. 10,500, then savings of the family is



- (1) Rs. 4500
- (2) Rs. 10000
- (3) Rs. 4000
- (4) Rs. 5000
- 126. The average mathematics marks of two Sections A and B of Class IX in the annual examination is 74. The average marks of Section A is 77.5 and that of Section B is 70. The ratio of the number of students of Section A and B is
 - (1) 7:8
- (2) 7:5
- (3) 8:7
- (4) 8:5
- 127. The average weight of a group of 20 boys was calculated to be 89.4 kg and it was later discovered that one weight was misread as 78 kg instead of 87 kg. The correct average weight is
 - (1) 88.95 kg
 - (2) 89.25 kg
 - (3) 89.55 kg
 - (4) 89.85 kg
- 128. The diameter of a wheel is 98 cm. The number of revolution in which it will have to cover a distance of 1540 m is
 - (1) 500
- (2) 600
- (3) 700
- (4) 800
- 129. In an equilateral triangle ABC of side 10cm, the side BC is trisected at D. Then the length (in cm) of AD is
 - (1) $3\sqrt{7}$
- (2) 7√
- $(3) \quad \frac{10\sqrt{7}}{3}$
- $(4) \quad \frac{7\sqrt{1}}{3}$

- 130. The cost price of an article is Rs. 800. After allowing a discount of 10%, a gain of 12.5% was made. Then the marked price of the article is
 - (1) Rs. 1000
 - (2) Rs. 1100
 - (3) Rs. 1200
 - (4) Rs. 1300
- 131. A man bought an article listed at Rs. 1500 with a discount of 20% offered on the list price. What additional discount must be offered to the man to bring the net price to Rs. 1104?
 - (1) 8%.
- (2) 10%
- (3) 12%
- (4) 15%

132. If
$$\frac{a}{b} = \frac{c}{d} = \frac{e}{f} = 3$$
, then

$$\frac{2a^2 + 3c^2 + 4e^2}{2b^2 + 3d^2 + 4f^2} = ?$$

- (1)
- (2) 3
- (3) 4
- (4) 9
- 133. The floor of a room is of size 4 m x 3m and its height is 3m.

 The walls and ceiling of the room require painting. The area of be painted is
 - (1) 66 m²
- (2) 54 m^2
- (3) 43 m²
- (4) 33m²
- 134. When the price of an article was reduced by 20% its sale increased by 80%. What was the net effect on the sale?
 - (1) 44% increase
 - (2) 44% decrease
 - (3) 66% increase
 - (4) 75% increase



- 135. The price of sugar goes up by 20%. If a housewife wants the expenses on sugar to remain the same, the should reduce the consumption by
 - (1) $15\frac{1}{5}\%$
- (2) $16\frac{2}{3}\%$
- (3) 20%
- (4) 25%
- 136. In a factory 60% of the workers are above 30 years and of these 75% are males and the rest are females. If there are 1350 male workers above 30 years, the total number of workers in the factory
 - (1) 3000
- (2) 2000
- (3) 1800
- (4) 1500
- 137. Walking at $\frac{3}{4}$ of his usual speed; a man is $1\frac{1}{2}$ hours late. His usual time to cover the same distance, in hours, is
 - (1) $4\frac{1}{2}$ (2) 4
 - (3) $5\frac{1}{2}$
- 138. The selling price of 10 oranges is the cost price of 13 oranges. The profit percentage is
 - (1) 30%
- (2) 10%
- (3) 13%
- (4) 3%
- 139. The marked price of a radio is Rs. 480. The shopkeeper allows a discount of 10% and gains 8%. If no discount is

- allowed, his gain percent would be
- (1) 18%
- (2) 18.5%
- (3) 20.5%
- (4) 20%
- 140. A man sold 20 apples for Rs. 100 and gained 20%. How many apples did he buy for Rs. 100?
 - (1) 20
- (2) 22
- (3) 24
- (4) 25
- 141. A rectangular sheet of metal is 40 cm by 15cm. Equal squares of side 4cm are cut off at the corners and the remainder is folded up to form an open rectangular box. The volume of the box is
 - (1) 896 cm²
- (2) 986cm²
- (3) 600cm³
- (4) 916cm³
- 142. If 78 is divided into three parts which are in the ratio
 - $1:\frac{1}{3}:\frac{1}{6}$, the middle part is
 - (1) $9\frac{1}{3}$
- (2) 13
- (3) $17\frac{1}{3}$
- (4) $18\frac{1}{3}$
- of money is 1/9 of the principal and the number of years is equal to rate per cent per annum. The rate per annum is
 - (1) 3%
- (2) $\frac{1}{2}$ %
- $(3) \quad 3\frac{1}{3}\%$
- (4) $\frac{3}{10}$



- 144. The difference between simple interest and compound interest of a certain sum of money at 20% per annum for 2 years is Rs. 48. Then the sum is
 - (1) Rs. 1000
 - (2) Rs. 1200
 - (3) Rs. 1500
 - (4) Rs. 2000
- 145. Shri X goes to his office by scooter at a speed of 30 km/h and reaches 6 minutes earlier. If he goes at a speed of 24 km/h, he reaches 5 minutes late. The distance of his office is
 - (1) 20 km
- (2) 21 km
- (3) 22 km
- (4) 24 km
- 146. A sum of money becomes eight times in 3 years, if the rate is compounded annually. In how much time will the same amount at the same compound rate become sixteen times?
 - (1) 6 years
- (2) 4 years
- (3) 8 years
- (4) 5 years

Directions (147-150): The pie chart given below shows the spending of a family on various heads during a month. Study the graph and answer the questions 147 to 150.



- 147. If the total income of the family is Rs. 25000, then the amount spent on Rent and Food together is
 - (1) Rs. 17250
 - (2) Rs. 14750
 - (3) Rs. 11250
 - (4) Rs. 8500
- 148. What is the ratio of the expenses on education to the expenses on Food?
 - (1) 1:3
- (2) 3:1
- (3) 3:5
- (4) 5:3
- 149. Expenditure on Rent is what percent of expenditure on Fuel
 - (1) 135%
- (2) 156%
- (3) 167%
- (4) 172%
- Which three expenditure together have a central angle of 108°?
 - (1) Fuel, clothing and others
 - (2) Fuel, education and others
 - (3) Clothing, rend and others
 - (4) Education, rent and others

PART-D

ENGLISH COMPREHENSION

Directions (151-155): In each of the following questions, some of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is your answer. If a sentence is free from errors, then your answer is (4) i.e. No error.

151. A senior doctor (1) /
expressed concern (2) / about
physicians recommended the
vaccine. (3) / No error (4)



	the state of the s		(1) spinster
152.	We have discussing (1) / all		(2) bachelor
	the known mechanism (2) / of		(3) unmarried
	physical growth, (3) / No	•	(4) single
	error. (4)	•.	
153.	Children enjoy listening to	160.	Do not stay in the grasslands
•	(1)/ ghosts stories (2)/		after dark, as some animals
	especially on Halloween		become when they see
	night. (3) / No error. (4)		humans.
154.	I(1) / have (2) / many works		(1) provoked
	to do. (3) / No error. (4)		(2) alerted
155.	There are so many filths (1)/		(3) aggressive
	all around (2)/ the place. (3)/		(4) threatened
	No error. (4)		
		Direct	tions (161- 165): In the
Direct	tions (156 - 160) : In the		ring questions, out of the four
	ving questions, sentences are		atives, choose the one which best
	wit blanks to be filled in with an		sses the meaning of the given
	oriate word. Four alternatives are	word.	nes are meaning of the great
	sted for each question. Choose	word.	
	rrect alternative out of the four.	161.	LUCIDITY
156.			(1) Fluidity
	must be down?		(2) Politeness
	(1) pull	•	(3) Glarity
	(2) pulling	•	(4) Fluency
	(3) pulled	162.	INDICT
	(4) pulls		(1) Implicate
157.	There is something wonderful		(2) Elude
157.	him?	٠,	(3) Charge
	(1) of		(4) Manifest
	(2) about	' 163.	APPRAISE
	(3) for		(1) Accuse
	(4) inside		(2) Praise
158.	The song in the play cannot be		(3) Appreciate
150.	deleted as it is to the		(4) Judge
	story?	164.	DELUGE
	(1) intervened	10	(1) Confusion
	(2) innate	,	(2) Deception
	(3) exacting		(3) Flood
	(4) integral		(4) Weapon
159.	She remained a all her	165.	PREPONDERANCE
137.	life?	105.	(1) Pre-eminence
	1110;		(2) Dominance



- (3) Domineering
- (4) Preoccupation

Directions (166- 170) : In the following questions, out of the four alternatives, choose the one opposite in meaning to the word.

- 166. **INVINCIBLE**
 - (1) Small
 - (2) Invisible
 - (3) Vulnerable
 - (4) Reachable
- INOFFENSIVE 167.
 - (1) Sensitive
 - (2) Organic
 - (3) Sensible
 - (4) Rude
- 168. DIVULGE
 - (1) Conceal
 - (2) Disguise
 - (3) Oppress
 - (4) Reveal
- 169. DISCORD
- - (1) Harmony
 - (2) Serenity
 - (3) Acceptance
 - (4) Placidity
- 170. MAMMOTH
 - (1) Qufet
 - (2) Significant
 - (3) Huge
 - (4) Small

Directions (171 - 175) : In the following four alternatives are given for the meaning of the given Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

171. To take to heart

- (1) to be encouraged
- (2) to grieve over
- (3) to like
- (4) to hate
- 172. Yeoman's service
 - (1) medical help
 - (2) excellent work
 - (3) social work
 - (4) hard work
- 173. To face the music
 - (1) to enjoy a musical rectical
 - (2) to bear the consequences
 - (3) to live in a pleasant atmosphere
 - (4) to have a difficult time
- 174. To put up with
 - (1) to accommodate
 - (2) to adjust
 - (3) to understand
 - (4) to tolerate
- 175. To call it a day
 - (1) To conclude proceedings
 - (2) to initiate proceedings
 - (3) to work through the day
 - (4) None of the above

Directions (176- 180) : In the following. a sentence or bold part thereof is given which may need improvement. Alternatives are given at (1), (2) and (3) below, which may be a better option. In case no improvement is needed, your answer is (4)

- 176. The man whom I thought was thoroughly honest proved to be a swindler
 - (1) The man whom I thought was thoroughly honest proved a swindler.
 - (2) The man who I thought was thoroughly honest proved to be a swindler.



- (3) The man to whom I thought was thoroughly honest proved to be a swindler.
- (4) No improvement.
- 177. No sooner had the dividend been declared, the notices were sent out.
 - (1) The company had hardly declared the dividend till the notices were sent for mailing.
 - (2) They had no sooner declared the dividend then the notices were sent out.
 - (3) Hardly had the dividend been declared than the notices were sent out.
 - (4) No improvement.
- 178. Riding upon his horse, the tiger jumped at him.
 - (1) Riding upon the tiger, the horse jumped at him.
 - (2) The tiger jumped at him while he was riding upon his horse.
 - (3) The tiger rode at him while he was jumping upon his horse.
 - (4) No improvement.
- 176. I in black and white must have your terms down
 - (1) I must have in black and white your terms down.
 - (2) I must have your terms in black and white down.
 - (3) I must have your terms down in black and white.
 - (4) No improvement.
- 180. When we came out of the restaurant it was half past eleven.

- (1) When we had come out of the restaurant
- (2) After we came out of the restaurant
- (3) When we have come out of the restaurant
- (4) No improvement

Directions (181 - 185): In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

- 181. Code of diplomatic etiquette and precedence
 - (1) Statesmanship
 - (2) Diplomacy
 - (3) Hierarchy
 - (4) Protocol
- 182. To renounce a high position of authority and control
 - (1) Abduct
 - (2) Abandon
 - (3) Abort
 - (4) Abdicate
- 183. Not to be moved by entreaty
 - (1) Rigorous
 - (2) Negligent
 - (3) Inexorable
 - (4) Despotic
- 184. An object or portion serving as a sample
 - (1) Specification
 - (2) Spectre
 - (3) Spectacle
 - (4) Specimen
- 185. The practice of submitting a proposal to popular vote
 - (1) Election
 - (2) Reference



- (3) Popularity
- (4) Referendum

Directions (186 - 190): In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

- 186. (1) Mandatary
 - (2) Circulatory
 - (3) Temporary
 - (4) Regulatary
- 187. (1) Convinience
 - (2) Initiative
 - (3) Concesional
 - (4) Exaggerate
- 188. (1) Diologue
 - (2) Giraff
 - (3) Scissors
 - (4) Humourous
- 189. (1) Asiduous
 - (2) Nefarious
 - (3) Macaber
 - (4) Logacious
- 190. (1) Cortege
 - (2) Damege
 - (3) Milege
 - (4) Plumege

Directions (191 - 200): In the following passage some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given.

PASSAGE

Science means Knowledge, but not all knowledge is science. I know from my own eyesight that our dog Chippy likes papaya. I know from a book that Akbar was the (191) of Babar, and (192) in 1605; and I know (193) the radio that India did not do well in the (194) Test matches. We can call these (195) of knowledge (196) but they are not science.

Science (197) with facts, but not with facts which have (198) to do with each other, like the facts about our dog, cricket and the Mughal ruler; those facts are not related (199), and so have nothing (200) with science. Science starts with observation.

- 191. (1) Grandson
 - (2) grandfather
 - (3) Grand nephew
 - (4) son
- 192. (1) Gone
 - (2) died
 - (3) disappeared
 - (4) absented
- · 193. (1) on
- (2) in
- (3) since 194. (1) old
- (4) from (2) ordinary
- (3) latest
- (4) outdated
- 195. (1) pieces
- (2) peace (4) block
- (3) whole 196. (1) lies
 - (2) charges
 - (3) Grand nephew
 - (4) son
- 197. (1) starts
 - (2) stops
 - (3) passes
 - (4) drives
- 198. (1) no
 - (2) 110
 - (2) neither
 - (3) nor
 - (4) nothing
- 199. (1) by that way
 - (2) in any way



152. (1)

156. (3)

160. (3)

164. (3)

168. (1)

172. (2)

176. (4)

180. (4) 184. (4)

188. (3)

192. (2) 196. (3)

200. (4)

	(3) from t	he side		149. (2)	150. (2)	151. (3)
	(4) in add	ition to		153. (3)	154. (3)	155. (1)
200.	(1) to lie			157. (2)	158. (4)	159. (1)
	(2) to spe	ak		161. (3)	162. (3)	163. (4)
	(3) to slee			165. (2)	166. (3)	167. (4)
	(4) to do			169. (1)	170. (4)	171. (2)
	(.) 10 00			173. (2)	174. (4)	175. (4)
	ABIC	WEDG		177. (1)	178. (2)	179. (3)
		WERS		181. (4)	182. (4)	183. (4)
l. (a)	2. (3)	3. (3)	4. (3)	185. (4)	186. (3)	187. (4)
5. (4)	6. (2)	7. (4)	8. (4)	189. (2)	190. (1)	191. (1)
9. (1)	10. (2)	11. (4)	. 12. (2)	193. (1)	194. (3)	195. (1)
43. (4)	14. (4)	15. (4)	16. (3)	197. (1)	198. (4)	199. (2)
17. (3)	18. (2)	19. (1)	20. (2)			
21. (4)	22. (4)	23. (4)	24. (3)			
25. (1)	26. (2)	27. (1)	28. (4)			
29. (1)	30. (2)	31. (4)	32. (4)			
33. (3)	34. (1)	35. (1)	36. (1)			
37. (1)	38. (3)	39. (4)	40. (3)			
41. (3)	42. (1)	43. (2)	44. (2)			
,45. (4)	46. (2)	47. (3)	48. (4)			
49. (2)	50. (3)	51. (3)	52. (3)			
53. (3)	54. (1)	55. (1)	56. (4)			
57. (3)	58. (4)	59. (3)	60. (2)			
61 (2)	62. (3)	63. (1)	64. (2)			
65. (3)	66. (4)	67. (3)	68. (3)			
69. (3)	70. (1)	71.(1)	72. (4)			
73. (3)	74. (3)	75. (4)	76. (3)			
77. (2)	78. (4)	79. (4)	. 80. (1)			
81. (3) 85. (4)	82. (1) 86. (2)	83. (3)	84. (1)			
89. (2)	, 1 ,	87. (4)	88. (3)			
93. (1)	90. (4) 94. (1)	91. (1) 95. (3)	92. (3)			
97. (4)	98. (2)	99. (4)	96. (2) 100. (2)			
101. (4)	102. (2)	103. (1)	104.(4)			
105. (1)	106. (2)	107. (2)	108. (3)			
109. (2)	110. (1)	111. (1)	112. (4)			
113. (3)	114. (1)	115. (4)	116. (2)			
117. (4)	118. (2)	119. (2)	120. (3)			
121. (2)	122, (2)	123. (2)	124. (3)			
125. (1)	126. (3)	127. (4)	128. (1)			
129. (3)	130. (1)	131. (1)	132. (4)			
133. (2)	134. (1)	135. (2)	136. (1)			
137. (1)	138. (1)	139. (4)	140. (3)			
141. (1)	142. (3)	143. (3)	144. (2)			
145. (3)	146. (2)	147. (2)	148. (1)			
	, ,	4-7				