SOLVED PAPER SSC COMBINED GRADUATE LEVEL PRELIM EXAM

Held on: 19.06.2011 (First Sitting)

PART-A: GENERAL INTELLIGENCE & REASONING

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

1. CFIL: ORUX:: GDJM:?

(a) HJLN

(b) NQST

(c) PSVY

(d) RTVX

2. BEHK: YVSP:: DGJM:?

(a) JGDA

(b) ROЫ

(c) WTQN

(d) ZWTQ

3. 24:60::120:?

(a) 160

(b) 220

(c) 300

4. 392:28::722

(a) 18 (c) 38

123:36::221

(a) 52

(b) 69

(c) 72

(d) 25

Timid: Ass:: Cunning:?

(a) Ant

(b) Fox

(c) Rabbit

(d) Horse

7. Ecstasy: Gloom::?

(a) Congratulations : Occasion

(b) Diligent : Successful Measure : Scale

(d) Humiliation : Exaltation

8. Architect: Building:: Sculptor:?

(a) Museum

(b) Stone

Chisel

(d) Statue

MKQO:LNPR::?XVTZ

(a) YSUW

(b) SVWY

VTWY

(d) WYTS

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

10.	(a)	PQXZ	(b)	BCQN
1	(c)	ABDF	(d)	MNPR
11.	(a)	ABYZ	(b)	CDWX
14.	(c)	EFUV	(d)	GHTV
12.	(a)	626	(b)	841
	(c)	962	(d)	1090
13.	(a)	5720	(b)	6710
	(c)	2640	(d)	4270
14.	(a)	Swimming	(b)	Sailing
	(c)	Dividing	(d)	Driving
15.	(a)	Perception	(b)	Discernment
	(c)	Penetration	(d)	Insinuation

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

Give Set: (4, 25, 81)

16. (a) (4, 36, 79)

(b) (9, 48, 81)

(c) (16, 64, 100) (d) (9, 49, 143) www.examrace.com

	()		(2) / (0 = 00 =		(2) 10				
	(c)	ACFJOU	(d) ADFHJL	l Î	(c) YU (d) YV				
Directi		In the fellowin	a augotion which and	25.	Mrs. Sushella celebrated her wedding				
Directions: In the following question, which one					anniversary on Tuesday, 30 th September				
of the given response would be a meaningful order of the following?					1997. When will she celebrate her next				
					wedding anniversary on the same day?				
					(a) 30 September 2003				
18.	(1)	Ocean	(2) Rivulet		(b) 30 September 2004				
	(3)	Sea	(4) Glacier	- 4	(c) 30 September 2002				
	(5)	River		- 53	(d) 30 October 2003				
	(a)	5,2,3,1,4	(b) 4,2,5,3,1	26.					
	(c)	5,2,3,4,1	(d) 4,2,1,3,5	10.	will be the angle traversed by the second				
Directi		Arranga tha f	allouring words on nor	1	hand in one minute?				
		-	ollowing words as per	//	(a) 360° (b) 360.5°				
oraer ir	i the c	dictionary.		/	(c) 390° (d) 380°				
40	(4)	Diti		27.	7./				
19.	(1)	Preposition			than F.C is half the age of A but is twice older				
	(2)	Preperatively	4.5		than D. Who is the second oldest?				
	(3)	Preposterous		1	(a) B (b) F				
	(4)	Preponderate	410	1 190	(c) D (d) C				
	(5)	Prepossess	42.454.6	28.	A two member committee comprising of one				
	(a)	2,4,1,5,3	(b) 1,5,2,4,3	W ·	male and one female member is to be				
0.0	(c)	5,4,2,3,1	(d) 4,2,5,1,3	3.8	constituted out of five males and three				
20.			letters when sequentially		females. Amongst the females, Ms. A				
			in the given letter series		refuses to be a member of the committee in				
		I complete it?	16		which Mr. B is taken as the member. In how				
		_cabbaca			many different ways can the committee be				
	(a)	acbcc	(b) aacbc		constituted?				
-46	(c)	babbb	(d) bcbba	İ	(a) 11 (b) 12				
Directi	one	(21-24). In e	ach of the following	İ	(c) 13 (d) 14				
				29.	Find the wrong number in the series.				
questions, a series is given, with one/two term(s)					6, 12, 21, 32, 45, 60				
missing. Choose the correct alternative from the					(a) 6 (b) 12				
given ones that will complete the series.				ļ	(c) 21 (d) 32				
	6		V10.1	30.	Ramesh ranks 13 th in a class of 33 students.				
21.	?_[DREQ, GUHT, J			There are 5 students below Suresh				
	(a)	EFRS	(b) TGSF		rankwise. How many students are there				
(c) JWVI (d) AOBN					between Ramesh and Suresh?				

(a) 12

(c) 15

(b) 14

(d) 16

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23. 0, 4, 8, 24, 64, 176, ___?__ (a) 180 (b) 480

(d) 300

(b) XU

(c) 280

(a) ZV

24. WTPMIFB_

17. In the following question, number of letters | are skipped in between by a particular rule.

rule?

(a) BAFHTU

22. 56, 90, 132, 184, 248, ___?__

(b) 316

(d) 326

(a) 368

(c) 362

Which of the following series observes the

(b) ACEGJL

- 31. Naresh's age is 4 years 4 years less than twice the age of his brother. Which of the following represents the equation to find his age?
 - (a) 2x + 4
- (b) 4x + 2
- (c) x-4
- (d) 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. Rema is Sheetal's daughter-in-law. Rema is Sheetal's daughter-in-law. Rohit is Rani's brother's son. Who is Rohit to Suresh?
 - (a) Brother-in-law (b) Son
 - (c) Brother
- (d) Nephew
- 33. In a survey, 70% of those 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 on a TV?
 - (a) 25%
- (b) 20%
- (c) 10%
- (d) 5%
- 34. If DANCE is coded as GXQZH then how will RIGHT be coded?
 - (a) UFJEW
- (b) SGKFX
- (c) UFJWE
- (d) UFWJE
- 35. If LOSE is coded as 1357 and GAIN is coded as 2468, what do the figures 84615 stand for?
 - (a) NAILS
- (b) SNAIL
- (c) LANES
- (d) SLAIN
- 36. A statement is given followed by four alternative arguments. Select the alternative which is most appropriate.

Statements:

Is it necessary that education should be job oriented?

Arguments:

- Yes, the aim of education is to prepare person for earning.
- II. Yes, educated person should stand on his own feet after completion of education.
- III. No, education should be for sake of knowledge only.

- No, one may take up agriculture where education is not necessary.
- (a) Only I and II arguments are strong
- (b) Only III and IV argument are strong
- (c) Only I argument is strong
- (d) Only I and III arguments are strong
- 37. A man started walking West. He turned right, then right again and finally turned left. Towards which direction was he walking now?
 - (a) North
- (b) South
- (c) West
- (d) East
- 38. Sudha travels 8 km to the South. Then she turns to the right and walks 4 km. Then again the turns to her right and moves 8 km forward. How many km away is she from the starting point?
 - (a) 7

39.

- (b) 6 (d) 8
- (c) 4
- From the given alternative words, select the word which *cannot* be formed using the letters of the given words:

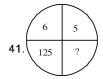
'COMPREHENSION'

- (a) MUTUAL
- (b) LIMITATION
- (c) ONION
- (d) PREACH
- 40. From the given alternative words, select the word which can be formed using the letters of the given word:

'MULTIPLICATION'

- (a) MUTUAL
- (b) LIMITATION
- (c) APPLICATION
- (d) NOTION

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



(a) 127

(c)

217

- (b) 31
- (d) 328
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	2	1	2
	21	22	?
42.	1	2	5
	20	23	43

(a) 40

(b) 48

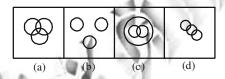
(c) 50

(d) 36

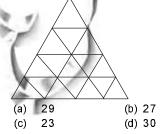
- 43. If '-' stands for division '+' stands for | subtraction, '+' stands for multiplication, 'x' | stands for addition, then which one of the | following equations is correct?
 - (a) $70 2 + 4 \div 5 \times 6 = 44$
 - (b) $70 2 + 4 \div 5 \times 6 = 21$
 - (c) $70 2 + 4 \div 5 \times 6 = 341$
 - (d) $70 2 + 4 \div 5 \times 6 = 36$
- 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% 39.75% 43.25% 47.25% 51.75% ?

- (a) 51.75%
- (b) 56.75%
- (c) 48.00%
- (d) 57.25%
- 45. Which diagram correctly represents the relationship between politicians, poets and women?



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



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 .

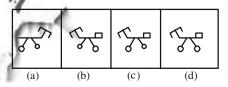
- (a) 33
- (b) 35
- (c) 43
- (d) 34

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

48. Question Figure:



Answer figures:

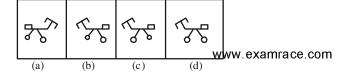


Directions: If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

49. Question Figure:



Answer figures:



PART – B GENERAL AWARENESS

- 51. In the budget for 2011-2012, the fiscal deficit | (% of GDP) for 2011-2012 has been | projected at
 - (a) 5.1
- (b) 5.0
- (c) 4.6
- (d) 3.4
- 52. Which was described by Dr. B.R. Ambedkar as the 'heart and soul' of the Constitution?
 - (a) Right to Equality
 - (b) Right against Exploitation
 - (c) Right to Constitutional Remedies
 - (d) Rights to Freedom of Religion
- 53. Which is not the concern of the local government?
 - (a) Public Health
 - (b) Sanitation
 - (c) Law and order
 - (d) Public Utility Services
- In India, the concept of single citizenship is adopted from
 - (a) England
- (b) U.S.A.
- (c) Canada
- (d) France
- 55. Who had proposed partyless democracy in India?
 - (a) Jaya Prakash Narayan
 - (b) Mahatma Gandhi
 - (c) Vinoba Bhave
 - (d) S.A. Dange
- 56. Disinvestment in Public Sector is called
 - (a) Liberalisation
 - (b) Globalisation
 - (c) Industrialisation
 - (d) Privatisation
- 57. 'Darwin finches' refers to a group of
 - (a) Fishes
- (b) Lizards
- (c) Birds
- (d) Amphibians
- An individual's actual standard of living can be assessed by
 - (a) Gross National Income
 - (b) Net National Income
 - (c) Per Capita Income
 - (d) 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 modernising their stamp and registration administration, Estamping is expected to be rolled out in all the districts of different States in a period of
 - (a) one year
- (b) two year
- (c) three year
- (d) five year
- 60. Which S kh Guru called himself the Sachcha Badshah'?
 - (a) Guru Gobind Singh
 - (b) Guru Hargoving
 - (c) Guru Tegh Bahadur
 - (d) Guru Arjun Dev
- 61. The Civil Disobedience Movement was launched by Mahatma Gandhi in
 - (a) 1928
- (b) 1930
- (c) 1931
- (d) 1922
- 62. What is the maximum strength prescribed for State Legislative Assemblies?
 - (a) 350
- (b) 600
- (c) 500
- (d) 750
- 63. Fa-hien visited India during the region of
 - (a) Chandragupta II
 - (b) Samundragupta
 - (c) Ramagupta
 - (d) Kumaragupta
- 64. At which place in Bengal was the East India Company given permission to trade and build a factory by the Mughals in 1651?
 - (a) Calcutta
 - (b) Cassim Bazar
 - (c) Singur
 - (d) Burdwan
- 65. Diu is an island off
 - (a) Daman
 - (b) Goa
 - (c) Gujarat
 - d) Maharashtra
- 66. Which from the following is a land-locked sea?
 - (a) Red Sea (c) North Sea
- (b) Timor Sea
- d) Aral Sea

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of river in (b) Cinnamon (a) Krishna (b) Godavari (a) Cardamom (c) Cauvery (d) Mahanandi (c) Cloves (d) Saffron 68. Who gave the slogan "Inquilab Zindabad"? 77. The tissue in man where no cell division occurs after birth is (a) Chandrashekhar Azad (b) nerves Subhash Chandra Bose (a) skeletal (c) Bhagat Singh (c) connective (d) germinal 78. DNA fingerprinting is used to identify the (d) Iqbal 69. The position of India Railways network in (a) Parents (b) Rapist (c) Thieves the world is (d) All the above 79. The normal cholesterol level in human blood (a) second (b) third (c) fourth (d) fifth (a) 80 - 120 mg% 70. The oldest international airline is 120 - 140 mg% Dutch. KLM (a) (b) (c) 140 - 180 mg% (b) Air Canada (c) Qantas Airways (d) 180 - 200 mg% Which of the following are warm-blooded (d) Air Sahara 71. Which of the following can be used to absorb animals? Wh ales neutrons to control the chain reaction during nuclear fission? Whale Sharks (c) Alytes (a) Boron (b) Heavy water (d) Plutonium Draco (c) Uranium 72. Hydrogen bomb is based on the principle of 81. Syrinx is the voice box in (a) controlled fission reaction (a) Amphibians (b) Reptiles (b) uncontrolled fission reaction (d) Mammals Birds (c) (c) controlled fusion reaction 82. The largest ecosystem of the Earth is (d) uncontrolled fusion reaction Biome (b) Hydrosphere 73. Troposphere is the hottest part of the (d) Biosphere (c) Lithosphere atmosphere because 83. In a food chain, the solar energy utilized by (a) it is closest to the Sun plants is only (b) there are charged particles in it (a) 10 per cent (c) it is heated by the Earth's surface (b) 1 per cent (d) heat is generated in it (c) 0.1 per cent The outermost layer of the Sun is called (d) 0.01 per cent (a) Chromosphere 84. Supersonic jet causes pollution by thinning (b) Photosphere of (c) Corona (a) O₃ layer (b) O₂ layer Lithosphere (c) SO₂ layer (d) CO2 layer Where was India's computer installed? OTEC stand for Indian Institute of Technology, Delhi Ocean Thermal Energy Conservation Indian Institute of Science, Bangalore Oil and Thermal Energy Conservation (b) (c) Ocean Thermal Energy Conversion
(d) Ocean Thermal Energy Conversion (c) Indian Iron & Steel Co. Ltd., Burnpur (d) Indian Statistical Institute, Calcutta

The dried flower buds are used as a spice

Shivasamudram Falls is found in the course

- 86. As per Railway Budget for 2011-2012, the senior citizen concession for men has been I increased from
 - (a) 25 % to 30%
 - (b) 30 % to 40%
 - 40 % to 50% (c)
 - 30 % to 50% (d)
- 87. The monster earthquake-cum-tsunami which his Japan on March, 11, 2011 has moved the country's main island, Honshu, by about
 - (a) two feet
- (b) three feet
- (c) five feet
- (d) eight feet
- 88. What is the commonly used unit for measuring the speed of data transmission?
 - (a) Mega Hertz
 - (b) Character per second
 - (c) Bits per second
 - (d) Nano seconds
- 89. Which type of reaction produces the most harmful radiation?
 - (a) Fusion reaction
 - (b) Fission reaction
 - (c) Chemical reaction
 - (d) Photo-Chemical reaction
- 90. Which type of glass is used for making glass reinforced plastic? yrex glass (b) Flint glass
 (c) Quartz glass (d) Flore
 Which of the

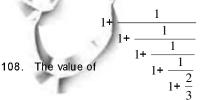
- (d) F bre glass
- 91. Which of the following metals causes Itai-Itai disease?
 - (a) Cadmium
- (b) Chromium
- (c) Cobalt
- (d) Copper
- 92. Glycol is added to aviation gasoline because it
 - (a) reduces evaporation of petrol
 - (b) increases efficiency of petrol
 - (c) prevents freezing of petrol
 - reduces consumption of petrol (d)
- Who invented penicillin?
 - Alexander Fleming
 - Louis Pasteur
 - Dresser
 - Edward Jenner

- 94. 2018 FIFA World Cup would be held in
 - (a) Russia
 - Qatar (b)
 - (c) France
 - (d) Netherlands
- 95. Who of the following was not the recipient of Nobel Prize in Economics 2010?
 - (a) Peter A. Diamond
 - (b) Christopher Pissarides
 - Lui Xiaobo
 - (d) Dale Mortensen
- Which troubled model was recalled recently by the Indian automobile giant Maruti Suzuki for replacement of faulty fuel pump gasket?
 - (a) Maruti 800
 - (b) Maruti A-Star
 - (c) Wagon R
 - (d) Baleno
- 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.
 - (a) Punjab
 - Bihar (b)
 - Rajasthan
 - Uttaranchal
- Who discovered South Pole?
 - (a) Robert Peary
 - (b) Amundsen
 - (c) John Cabot
 - (d) Tasman
- 99. Which of the following folk dances is associated with Rajasthan?
 - (a) Rauf
- (b) Jhora
- Veedhi (c)
- (d) Suisini
- 100. Which of the following books is authored by V.S. Naipalu?
 - (a) The Rediscovery of India
 - (b) A House for Mr. Biswas
 - Witness the Night (c)
 - (d) Tender Hooks

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PART – C NUMERICAL APTITUDE

- 101. If p = 124, $\sqrt[3]{p(p^2 + 3p + 3) + 1}$ = ?
 - (a) 5
- (b) 7
- (c) 123
- (d) 125
- 102. If $\sqrt{1-\frac{x^3}{100}} = \frac{3}{5}$, then x equals
 - (a)
- (b) 4
- (c) 16
- (d) $(136)^{1/3}$
- 103. I multiplied a natural number by 18 and another by 21 and added the products. Which one of the following could be the sum?
 - (a) 2007
- (b) 2008
- (c) 2006
- (d) 2002
- 104. The product of two numbers is 45 and their difference is 4. The sum of squares of the two numbers is
 - (a) 135
- (b) 240
- (c) 73
- (d) 106
- 105. $\sqrt{8+\sqrt{57+\sqrt{38+\sqrt{108+\sqrt{169}}}}} = ?$
 - (a)
- (b) 6
- (c) 8
- (d) 10
- 106. The square root of 14 + $6\sqrt{5}$ is
 - (a) $2 + \sqrt{5}$
- (b) $3 + \sqrt{5}$
- (c) $5+\sqrt{3}$
- (d) $3 + 2\sqrt{5}$
- 107. When 2³¹ is divided by 5 the remainder is
 - (a) 4
- (b) 3
- (c) 2
- (d) 1



- (a) $\frac{21}{12}$
- (b) $\frac{17}{3}$
- (c) $\frac{34}{21}$
- (d) -
- 109. The unit digit in the product (122)¹⁷³ is
 - (a) 2
- (b) 4
- (c) 6
- (d) 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
 - (a) $16 + \sqrt{3}$
- (b) $4 \sqrt{3}$
- (c) $2-\sqrt{3}$
- (d) $2 + \sqrt{3}$
- 111. If a * b = 2a + 3b ab, then the value of (3 * 5 + 5 * 3) is
 - (a) 10
- (b) 6
- (c) 4
- (d) 2
- 112. Simplify:
 - $0.0347 \times 0.0347 \times 0.0347 + (0.9653)^3$ $(0.0347)^2 - (0.347) + (0.09653)^2$
 - (a) 0.9306
- (b) 1.0009
- (c) 1.0050
- (d) 1.000 (d) 15
- 113. A copper wire is bent in the form of an equilateral triangle, and has are $121\sqrt{3}~\text{cm}^2$. If the same wire is bent into the form of a circle, the area (in cm²) enclosed by the wire

in (Take
$$\pi = \frac{22}{7}$$
)

- (a) 364.5
- (b) 693.5
- (c) 346.5
- (d) 639.5
- 114. A child reshapes a cone made up of clay of height 24 and radius 6cm into a sphere. The radius (in cm) of eh sphere is
 - (a) 6
- (b) 12
- (c) 24
- (d) 48
- 115. Water flows into a tank which is 200m long and 150m wide, through a pipe of cross-section 0.3m × 0.2m at 20 km/hour. TWWW.examrace.com

the t	ime (in	hour) for the water level in the	,
tank	to reac	n 8cm is	
(a)	50	(b) 120	
(c)	150	(d) 200	
The	produc	of two numbers is 2028 and	l
thair	HCE	s 13. The number of such pairs	

(a) 1 (b) 2 (c) (d) 4 117. Two equal vessels are filled with the mixture

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 15:12 (b) 53:59 (a)

```
(c)
            20:9
                            (d) 59:53
118. I am three times as old as my son. 15 years
      hence, I will by twice as old as my son. The
      sum of our ages is
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(a) 48 years (b) 60 years (c) 64 years (d) 72 years

119. Three bells ring simultaneously at 11 a.m. They ring at regular intervals of 20 minutes, 30 minutes, 40 minutes respectively. The time when all the three ring together next is

(a) 2 p.m.

(b) 1 p.m.

(d) 1.30 p.m. (c) 1.15 p.m.

120. A and B together can do a works 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

(a) 60

116.

is

(b) 30

(c) 15 (d) 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 time work in 20 days. The time taken by A, B and C to do the same work is

> (a) 5 days

(b) 10 days

15 days

(d) 20 days

122. A is 50% as efficient as B. C does half of the work done by A and B together. If C alone does the work in 20 days, then A, B and C together can do the work in

(a) $5\frac{2}{3}$ days (b) $6\frac{2}{3}$ days

(c) 6 days

(d) 7 days

123. The ratio of the volumes of water and glycerine 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 volume of water and glycerine becomes 2:3 is

(a)

(b) 60

(c) 62.5

(d) 64

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

(a) 21 years (c) 30 years

(b) 24 years

(d) 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

(a) Rs. 4,500

(b) Rs. 10,000

Rs. 4,000

(d) Rs. 5,000

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

(a) 7:8

(b) 7:5

(c) 8:7

(d) 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 78kg instead of 87 kg. The correct average weiaht is

(a) 88.95 kg

(b) 89.25 kg

(c) 89.55 kg

(d) 86.85 Kg

128. The diameter of a wheel is 98 cm. The number of revolutions in which it will have to cover a distance of 1540 m is

(a) 500

(b) 600

(c) 700

(d) 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

- (a) $3\sqrt{7}$
- (b) $7\sqrt{3}$
- $\frac{10\sqrt{7}}{3} \qquad \qquad \text{(d)} \quad \frac{7\sqrt{10}}{3}$
- 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
 - (a) Rs. 1,000
 - (b) Rs. 1,100
 - Rs. 1,200 (c)
 - (d) Rs. 1,300
- 131. A man bought an article listed at Rs. 500 with a discount of 20% offered on the list price. What additional discount must be offered to man to bring the net price to Rs. 1,104?
 - (a) 8%
- (b) 10%
- (c) 12%
- (d) 15%

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

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

- (a) 2
- (c) 4
- 133. The floor of a room is of size 4m × 3m and its height is 3m. The walls and ceiling of the room require painting. The area to be painted
 - 66 m² (a)
- (b) 54 m²
- (c) 43 m²
- (d) 33 m²
- When the price of an article was reduced by 20% its sale increased by 80%. What was the net effect on the sale?
 - (a) 44% increase
 - (b) 44% decrease

 - (c) 66% increase (d) 66% decrease

- 135. The price of sugar goes up by 20%. If a housewife wants the expenses on sugar to remain the same, she should reduce the consumption by
 - (a) $15\frac{1}{5}\%$
- (c) 20%
- (d) 25%
- In a factory 60% of the workers are above 30 136. 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
 - (a) 3000
- (b) 2000
- 1800 (c)
- (d) 1500
- Walking at $\frac{3}{4}$ of his usual speed, a main is
 - hours late. His usual time to cover to

same distance, in hours, is

- (d) 5
- 138. The selling price of 10 oranges is the cost price of 13 oranges. Then the profit percentage is
 - (a) 30%
- (b) 10%
- (c) 13%
- (d) 3%
- 139. The marked price of a ratio is Rs. 480. The shopkeeper allows a discount at 10% and gains 8%. If no discount is allowed, his gain percent would be
 - (a) 18%
- (b) 18.5%
- (c) 20.5%
- (d) 20%
- 140. A man sold 20 apples for Rs. 1000 and gained 20%. How many apples did he buy for Rs. 100?
 - (a) 20
- (b) 22
- (c) 24
- (d) 25

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- 141. A rectangular sheet of metal is 40 cm by 15 cm. Equal squares of side 4 cm are cut off at the corners and the remainder is folded up to form an open rectangular box. The volume of the box is
 - (a) 896 cm³
- (b) 986 cm³
- (c) 600 cm³
- (d) 916 cm³
- 142. If 78 is divided into three parts which are in

the ratio 1: $\frac{1}{3}$: $\frac{1}{6}$, the middle part is

- (c) $17\frac{1}{3}$ (d) $18\frac{1}{3}$
- 143. The simple interest on a sum of money is

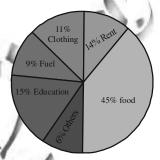
 $\frac{1}{Q}$ of the principle and the number of years is equal to rate per cent annum. The rate per annum is

- 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
 - (a) Rs. 1,000
- (b) Rs. 1,200
- (c) Rs. 1,500
- (d) Rs. 2,000
- 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
 - (a) 20 km
- (b) 21 km
- 22 km
- (d) 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?

- (a) 6 years
- (b) 4 years
- 8 years
- (d) 5 years

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



- If the total income of the family is Rs. 25,000, then the amount spent on Rent and Food together is
 - Rs. 17,250
- (b) Rs. 14,750
- Rs. 11,250
- (d) Rs. 8,500
- What is the ratio of the expenses of Education to the expenses on Food?
 - (a) 1:3
 - (b) 3:1
 - 3:5 (c)
 - (d) 5:3
- Expenditure on Rent is what percent of expenditure of Fuel?
 - (a) 135%
 - (b) 156%
 - 167%
 - (d) 172%
- Which three expenditures together have a central angle of 108°?
 - Fuel, Clothing and Others
 - (b) Fuel, Education and Others
 - Clothing, Rend and Others
 - Education, Rent and Others

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PART – D ENGLISH COMPREHENSION

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

- 151. A senior doctor (1) / expressed concern (2) / about physicians recommended the vaccine. (3) / No error. (4)
- 152. We have discussing (1) / all the known mechanisms (2) / of physical growth, (3) / No error. (4)
- 153. Children enjoy listening to (1) / ghosts | stories (2) / especially on Halloween night. | (3) / No error. (4)
- 154. I (1) / have (2) / many works to do. (3) / No error. (4)
- 155. There are so many filths (1) / all around (2) / the place. (3) / No error. (4)

Directions (156–160): In the following questions, sentences are given with blanks to be filled in with an appropriate word. Four alternatives are suggested for each question. Choose the correct alternative out of the four.

	100 100	The second secon							
156.	The building is not safe and must be								
6	down.								
- 6	(a) pull	(b) pulling							
1	(c) pulled	(d) pulls							
157.	There is something	wonderful him.							
	(a) of	(b) about							
	(c) for	(d) inside							
158.	The song in the pla	ry cannot be deleted it is							
	to the story.								
	(a) intervened	(b) innate							
	(c) exacting	(d) integral							
159.	She remained a	all her life.							

(a) spinster (b) bachelor (c) unmarried (d) single

160. Do not stay in the grasslands after dark, as some animals become ____ when they see humans.

(a) provoked (b) alerted (c) aggressive (d) threatened

Directions (161-165): In the following, questions out of the four alternatives, choose one which best expresses the meaning of the given word.

		4 4	1. 100	
161.	LUCI	DITY	>	6
1	(a)	Fluidity	(b)	Politeness
1	(c)	Clarity	(d)	Fluency
162.	INDI	II ***		
B.	(a)	Implicate	(b)	Elude
	(c)	Appreciate	(d)	Judge
163.	DELL	JGE		
	(a)	Confusion	(b)	Deception
	(c)	Flood	(d)	Weapon
164.	PRE	PONDERANCE		
	(A)	Pre-eminence		
100	(B)	Dominance		
	(C)	Domineering		
(×	(D)	Preoccupation		
-				

Directions (166-170): In the following question no. 166 to 170, out of the four alternatives, choose the word opposite in meaning to the given word.

166.	INVI	NCIBLE			
	(a)	Small			
	(b)	Invisible			
	(c)	Vulnerable	(d)	Reachable	
167.	INOF	FENSIVE			
	(a)	Sensitive	(b)	Organic	
	(c)	Sensible	(d)	Rude	
168.	DIVL	JLGE			
	(a)	Conceal	(b)	Disguise	
	(c)	Oppress	(d)	Reveal	
169.	DISC	CORD			
	(a)	Harmony	(b)	Serenity	
	(c)	Acceptance	(d)	Placidity	WW'

- 170. MAMMOTH
 - (a) Quiet
- (b) Significant
- (c) Huge
- (d) 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
 - (a) to be encouraged
 - (b) to grieve over
 - (c) to like
 - (d) to hate
- 172. Yeoman's service
 - (a) medical help
 - (b) excellent work
 - (c) social work
 - (d) hard work
- 173. To face the music
 - (a) to enjoy a musical recital
 - (b) to bear the consequences
 - (c) to live in a pleasant atmospher
 - (d) to have a difficult time
- 174. To put up with
 - (a) to accommodate
 - (b) to adjust
 - (c) to understand
 - (d) to tolerate
- 175. To call it a day
 - (a) to conclude proceedings
 - (b) to initiate proceedings
 - (c) to work through the day
 - (d) None of the above

Directions (176-180): In the following questions, a sentence or bold part thereof is given which may need improvement. Alternative are given at (A), (B) and (C) below, which may be a better option. In case, no improvement is needed, your answer is (D).

176. The man whom I thought was thoroughly honest proved to be a swindler.

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

nt

- (c) When we have come out of the restaurant www.examrace.com
- (d) N i

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 precedence
 - Statesmanship (a)
 - (b) Diplomacy
 - (c) Hierarchy
- (d) Protocol
- 182. To renounce a high position of authority or control
 - (a) Abduct
- (b) Abandon
- (c) Abort
- (d) Abdicate
- Not to be moved by entreaty
 - (a) Rigorous
- (b) Negligent
- In exo rable (c)
- (d) Despotic
- 184. An object or portion serving as a sample
 - (a) Specification
- (b) Spectre
- Spectacle (c)
- (d) Specimen
- 185. The practice of submitting a proposal to popular vote
 - Election (a)
- (b) Reference
- Popularity (c)
- (d) 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. (a) mandatary (b) circulatory temporary (c) regulatory (d) convinience (a) initative (b) (c) concessional (d) exaggerate
- 188. diologu e (a)
- (b) giraffe
- scissors
- (d) humourous
- assid u o u s 189.
- (b) nefarious
- macabre
- (d) loquacious
- 190. cortege
- (b) damage
- milege
- (d) 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 the blanks with the help of the alternative given.

PASSAGE

Science means knowledge, but not all knowledge is science. I know from my own eyesight that our dog Chippy lies papaya; I know from a book that Akbar was the (191) of Babar, and (192) in 1605; and I know (193) the ratio that India did not do well in the (194) Test matches. We can call these (<u>195</u>) 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 stars with observation.

- 191. grandson
 - grandfather
 - (c) grand nephew

disappeared

- (d) son
- 192. (a) aone
- (b) died (d) absented
- (c) 193 (a) on
- (b) in

- (c) since
- (d) from
- 194. (a) old
- (b) ordinary
- latest (c)
- (d) outdated
- 195. pieces (a)
- peace (b)
- (c) whole 196. (a) lies
- (d) block
- (c) facts
- charges
- 197. starts
- (d) blame
- (a) passes
- (b) stops
- (c)
- (d) drives
- 198. (a) no
- (c) nor
- (b) neither
- (d) nothing
- 199. by that way (a)
- (b) in any way
- (c) from the side 200. (a) to lie
- (d) in addition to (b) to speak
- to sleep (c)
- (d) to do

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ANSWERS											
1. (c)	2. (c)	3. (c)	4. (c)	5. (d)	6. (b)	7. (d)	8. (d)	9. (a)	10. (b)		
11. (d)	12. (b)	13. (d)	14. (d)	15. (d)	16. (c)	17. (c)	18. (b)	19. (a)	20. (b)		
21. (d)	22. (d)	23. (d)	24. (c)	25. (a)	26. (b)	27. (a)	28. (d)	29. (a)	30. (b)		
31. (d)	32. (d)	33. (c)	34. (a)	35. (a)	36. (a)	37. (a)	38. (c)	39. (d)	40. (c)		
41. (c)	42. (a)	43. (b)	44. (b)	45 (d)	46. (b)	47. (c)	48. (d)	49. (b)	50. (c)		
51. (c)	52. (c)	53. (c)	54. (a)	55. (a)	56. (d)	57. (c)	58. (d)	59. (c)	60. (b)		
61. (b)	62. (c)	62. (a)	64. (b)	65. (c)	66. (d)	67. (c)	68. (c)	69. (c)	70. (a)		
71. (d)	72 (d)	73. (c)	74. (c)	75 (d)	76. (c)	77. (b)	78. (d)	79. (d)	80. (a)		
81. (c)	82. (a)	83. (c)	84. (a)	85 (d)	86. (b)	87. (d)	88. (c)	89. (b)	90. (d)		
91. (a)	92. (c)	93. (a)	94. (a)	95. (c)	96. (b)	97. (d)	98. (b)	99. (d)	100. (b)		
101. (d)	102. (b)	103. (a)	104. (d)	105. (a)	106. (b)	107. (b)	108. (c)	109. (b)	110. (a)		
111. (a)	112. (d)	113. (c)	114. (a)	115 (d)	116. (b)	117. (d)	118. (b)	119. (b)	120. (c)		
121. (b)	122. (b)	123. (b)	124. (c)	125. (a)	126. (c)	127. (d)	128. (a)	129. (c)	130. (a)		
131. (a)	132. (d)	133. (b)	134. (a)	135 (b)	136. (a)	137. (a)	138. (a)	139. (d)	140. (c)		
141. (a)	142. (c)	143. (c)	144. (b)	145. (c)	146. (b)	147. (b)	148. (a)	149. (b)	150. (b)		
151. (c)	152 (a)	153. (c)	154. (c)	155 (a)	156. (c)	157. (b)	158. (d)	159. (a)	160. (c)		
161. (c)	162. (c)	163. (d)	164. (c)	165 (b)	166. (c)	167. (d)	168. (a)	169. (a)	170. (d)		
171. (b)	172. (a)	173. (b)	174. (d)	175. (d)	176. (d)	177. (a)	178. (b)	179. (c)	180. (d)		
181. (d)	182. (d)	183. (d)	184. (d)	185. (d)	186. (c)	187. (d)	188. (c)	189. (b)	190. (a)		
191. (a)	192. (b)	193. (a)	194. (c)	195. (a)	196. (c)	197. (a)	198. (d)	199. (b)	200. (d)		

