SSC CGL Examination

Grand Test

Qu	estions: 20	0		Time: 2 h	ours			Max m	arks: 200
	Directions questions,	(Q.1-3): I select the	n each of t	he following etters/ word/		c) VENTU	JR	d) DVEN	TU
	number fro	m the give	en alternativ	ves.		Direction	s (Q.11-1	5): In ea	ach of the
1.	5:36::6	:?				following	questions	, find the	odd word/
	a) 48	b) 49	c) 50	d) 56		number-pa	air from the	e given alter	rnatives.
		,			11.	a) Tsangp	0	b) Hazaril	oagh
2.	Mountain :	Hill : : Tr	ee : ?			c) Kanha		d) Bandip	ur
	a) Ground		b) Leaf			,			
	c) Forest		d) Shrub		12.	a) Brass		b) Bronze	
	,		,			c) Steel		d) German	n silver
3.	EGIK : FII	LO : : FHJ	L:?			,			
	a) GJMP		b) GMJP		13.	a) 12-72		b) 24-48	
	c) JGMP		d) JGPM			c) 60-74		d) 84-96	
						-,		.,	
	Directions	(0.4-5): I	n each of t	he following	14.	a) Polvest	er	b) Cotton	
	auestions.	which on	e set of l	etters when		c) Tervlen	e	d) Nylon	
	sequentiall	v placed a	t the gaps	in the given				<i>,</i> ,	
	letter series	s shall com	nplete it?		15.	2. 5. 10. 5	60, 500, 500)()	
4	bc ca a	aba c c	a			a) 5	b) 10	c) 50	d) 5000
	a) abcbb		b) bbbcc			u) c	0)10	•) • • •	u) 2000
	c) bacha		d) abbcc			Direction	s (0.16-1	9): In ea	ach of the
	c) cuccu		<i>a) acccc</i>			following	questions	select 1	the missing
5	abca bca	ab ca b	obc a			number fr	om the give	en response	s
0.	a) $ccaa$	b) bbaa	c) abac	d) abba	16	3 7 15 9	63 127	en response	5.
	u) eeuu	<i>c) ccuu</i>	<i>c) ucuc</i>	a) abba	10.	a) 30	b) 31	c) 47	d) 52
	Directions	(0.6-10). In ea	ch of the		u) 50	0) 51	•) 17	u) 52
	following	questions	a series is	given with	17	563 647	479 815 7)	
	one term	missing	Choose	the correct	17.	a) 672	h) 386	c) 279	d) 143
	alternative	from the	given on	es that will		u) 072	0) 500	0) 21)	u) 115
	complete th	nom une	given on	es that will	18	<u> </u>			
6	28 33 31	36 2 39			10.				
0.	a) 32	b) 34	c) 38	d) 40		W/3	15		
	a) 52	0) 54	C) 50	u) 40		K	\rightarrow		
7	CAX FOL	116R 9				10	?/		
7.	a) K^{25P}	h) I 25P	c) I 250	d) I 27P		<u>الايم</u>			
	a) K251	0) L231	C) L250	u) L271					
8	VBTG	\cap ?				a) 5	b) 0	c) 11	d) 13
0.	$1, \mathbf{D}, 1, \mathbf{U}, \mathbf{n}$	b) M	c) I	d) K		a) 5	0) 9	C) 11	u) 15
	a) IN	\mathbf{U}	C)L	u) K	10	r			
0	BWA DW	WEOUS			19.	4 5	6		
У.	DIVIA, DIV	W, FUU, ?	a) UDC	a) upt		2 3	7		
	a) UHU	0) 013	C) IIIS	u) HP I					
10		ייזר סמו		υνενιτί τρ			3		
10.		JKE, DVI	LINI UKE,	DVENIUK,		21 98	3 ?		
	(, V E N I U)	1	ה) <i>ערא</i> ידיו	DE		ی <u>ہے۔</u> م) 04	h) 76	~ 72	d) 14
	a) D V EIN I		U) VENIU	JIL	1	aj 74	0) /0	c_{13}	u) 10

20. I am facing South. I turn right and walk 20m. Then I turn right again and walk 10m. Then I turn left and walk 10m and then turning right walk 20m. Then I turn right again and walk 60m. In which direction am I from the starting point?

a) North	b) North-west
c) East	d) North-east

21. If \times means +, + means \div , - means \times and \div means -, then $8 \times 7 - 8 + 40 \div 2 = ?$

a) 1 b)
$$7\frac{2}{5}$$
 c) $8\frac{3}{5}$ d) 44

22. On a shelf are placed six volumes side-byside labelled A, B, C, D, E and F. B, C, E, F have green covers while others have yellow covers. A, D, B are new volumes while the rest are old volumes. A, C, B are law reports while the rest are medical extracts. Which two volumes are old medical extracts and have green covers?

a) B, C b) C, D c) C, E d) E, F

Directions (Q.23-25): In each of the following questions, from the given alternatives select the word which cannot be formed using the letters of the given word.

23. DETERMINATION

a) MINT	b) TEAM
c) TAMED	d) NORTH

24. ADMINISTRATION

a) RATION	b) MINISTER
c) TRADITION	d) STATION

25. ENVIRONMENT

a) EMINENT	b) ENTER
c) MOVEMENT	d) MENTOR

26. If '-' stands for 'division', '+' for 'multiplication,' '÷' for 'subtraction' and '×' for 'addition', which one of the following equations is correct?

a) $6 + 20 - 12 \div 7 - 1 = 38$ b) $6 - 20 \div 12 \times 7 + 1 = 57$

- c) $60 + 20 12 \div 7 \times 1 = 62$
- d) $6 \div 20 \times 12 + 7 1 = 70$

27. If L denotes ÷, M denotes ×, P denotes + and Q denotes –, then which of the following statements is true?

a)11 M 34 L 17 Q 8 L 3 =
$$\frac{38}{3}$$

b) 6 M 18 Q 26 L 13 P 7 = $\frac{173}{13}$
c) 32 P 8 L 16 Q 4 = $-\frac{3}{2}$
d) 9 P 9 L 9 Q 9 M 9 = 71
28. 5 + 6 ÷ 3 - 12 × 2 = 17
a) ÷ and × b) + and ×
c) + and ÷ d) + and -

- 29. If '×' stands for 'addition', '<' for 'subtraction', '+' for 'division', '>' for 'multiplication', '-' for 'equal to', '÷' for 'greater than' and '=' for 'less than', then state which of the following is true?
 a) 3 × 4 > 2 9 + 3 < 3
 b) 5 × 3 < 7 ÷ 8 + 4 × 1
 c) 5 > 2 + 2 = 10 < 4 × 8
 - d) $3 \times 2 < 4 \div 16 > 2 + 4$
- 30. In a code language, TUTORIAL is written as DODNGLCF and DANCE is written as YCJMZ, how can EDUCATION be written in that code?
 - a) ZYMODCLNJb) ZYOMCDLNJc) ZYOMDCLNJd) ZYOTNLCMD
- 31. If the word PORTER can be coded as MBNZQN, how can REPORT be written?
 a) NQMNBZ
 b) NQMBNZ
 c) NBQMNZ
 d) NQBMNZ

Directions (Q.32-33): In each of the following questions, select the missing number from the given responses.



33. Which of the following diagrams indicates the best relation between Football, Player and Field?



34. If 'paper' is called 'wood', 'wood' is called 'straw', 'straw' is called 'grass', 'grass' is called 'rubber' and 'rubber' is called 'cloth', what is the furniture made up of ?

a) Paper	b) Wood
c) Straw	d) Grass

- 35. In a group of cows and hens, the number of legs are 14 more than twice the number of heads. The number of cows is
 - a) 5 b) 7 c) 10 d) 12
- 36. Select the correct combination of mathematical signs to replace * signs and to balance the given equation.
 - $\begin{array}{ll} 4 * 9 * 72 * 2 = 0 \\ a) \div \times & b) \times \div \\ c) \div \times & d) \times \div \end{array}$
- 37. Find the correct set of numbers from the given alternatives.

(3, 1, 2) $(10, 2, 5)$	(101, 5, 26) $(10202, ?, ?)$
a) 9, 65	b) 26, 65
c) 9, 677	d) 26, 677

Directions (Q.38-40): In each of the following questions, one/two statements are given followed by two/three conclusions I, II and III. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follow from the given statements.

38. Statements:

No women teacher can play.

Some women teachers are athletes.

Conclusions:

I. Male athletes can play

- II. Some athletes can play
- a) If only conclusion I follows
- b) If only conclusion II follows

- c) If either conclusion I or II follows
- d) If neither conclusion I nor II follows.

39. Statements:

Some pictures are frames. Some frames are idols.

All idols are curtains.

Conclusions:

- I. Some curtains are pictures
- II. Some curtains are frames
- III. Some idols are frames.
- a) Only I and II follow
- b) Only II and III follow
- c) Only I and III follow

d) All follow

40. Statements:

No box is toy.

All toys are blocks.

Conclusions:

- I. Some blocks are toys
- II. Some blocks are boxes.
- III. No block is box.
- a) Only I follows
- b) Only either II and III follows
- c) Only either II or III, and I follows
- d) None follows
- 41. Insert the missing number from the given responses



42. Choose from amongst the alternatives (a), (b), (c) and (d), the boxes that are similar to the box that can be formed from figure X



43. The mirror image of X given below is



44. The water image of X given below is



45. Mark the correct response which has the fig X embeded



Directions (Q.46-47): In each of the following questions, which answer figure will complete the pattern in the question figure?



Directions (Q.48-50): In each of the following questions, consists of a set of three figures X, Y and Z showing a sequence of folding of a piece of paper. Fig (Z) shows the manner in which the folded paper has been cut. These three figures are followed by four answer figures from which you have to choose a figure which would most closely resemble the unfolded form of fig.(Z).





51. Match List-I with List-II and choose your answer from the codes given below:

Lis	t-I		List	-II	
(A) Indika			(i) Banabhatta		
(B) Ha	rshacha	rita	(ii) Char	(ii) Chand bardai	
(C) Prithviraj Raso			(iii) Meg	gasthenes	
(D) Rajatarangini			(iv) Kall	nana	
Codes	:				
	А	В	C	D	
(a)	(iv)	(iii)	(i)	(ii)	
(b)	(iii)	(i)	(ii)	(iv)	
(c)	(ii)	(iv)	(iii)	(i)	
(d)	(i)	(ii)	(iv)	(iii)	

52. Match List-I with List-II and choose your answer from the codes given below:

L	ist-I		List	-II	
(A) J	unagarh	(i) Harsha	vardhana	
Ir	scription				
(B) In	on pillar	(i	(ii) Pushya gupta		
Ir	scription		-		
(C) B	anskhera	(i	ii) Samu	dragupta-II	
Ir	scription				
(D) Aihole		(iv) Pulkeshin- II			
Ir	scription				
Code	es:				
	А	В	С	D	
(a)	(ii)	(iii)	(i)	(iv)	
(b)	(i)	(ii)	(iv)	(iii)	
(c)	(iii)	(iv)	(ii)	(i)	
(d)	(iv)	(i)	(ii)	(iii)	

Given below are two statements, one labelled as **Assertion** (**A**) and the other labelled as **Reason** (**R**)

53.Assertion (A): Sangam literature is a 'Sanskrit Kavya.'

Reason (**R**): It offers information on the social

Conditions:

In view of the above two statements which of the following is correct?

(a) (A) is true but (R) is false
(b) (A) is false but (R) is true
(c) Both (A) and (R) are false
(d) Both (A) and (R) are true

- 54. The post of Diwan-i-Mustakharaj was created by which of the following Sultans?a) Alauddin Khilji b) Ghiyasuddin Balbanc) Razia d) Ibrahim Lodi
- 55. In 1920 the All India Trade Union Congress was organized by:
 - a) B.P. Wadia b) Mahatma Gandhi
 - c) N.M. Joshi d) Jawaharlal Nehru
- 56. Who stated in 1834 that "The bones of the cotton weavers are bleaching the plains of India"?
 - a) Lord Macaulay
 - b) Lord William Bentinck
 - c) Dadabhai Naoroji
 - d) Raja Ram Mohan Roy
- 57. The Ryotwari settlement was made with the :
 - a) Zamindars b) Cultivators
 - c) Village communities
 - d) Muqaddams
- 58. The value of Special Drawing Right (SDR) at present is determined in the international market by:
 - a) The price of gold
 - b) The value of US \$
 - c) The average value of the basket of a set of convertible currencies
 - d) Euro
- 59. Which of the following is not a full-fledged member of the ASEAN group at present (2006)?
 - a) Indonesia and Myanmar
 - b) Philippines and Thailand
 - c) India and Pakistan
 - d) South Vietnam and Singapore
- 60. Minimum support price in the agricultural sector is undertaken to:
 - a) Prevent fall in the price in case of a glut in any given year
 - b) Protect the interests of the farmers

- c) Provide incentive to farmers
- d) All of the above
- 61. Which one of the following is called the Mother of Parliaments?
 - a) The Indian parliament
 - b) The US congress
 - c) The British Parliament
 - d) The Swiss Federal Assembly
- 62. Who presides over the joint session of the Parliament in India?
 - a) President of India
 - b) Vice- President of India
 - c) Speaker of the Lok Sabha
 - d) Chief Justice of India
- 63. Who of the following was not associated with Swaraj Party?
 - a) Motilal Nehru
 - b) C R Das
 - c) Vallabh Bhai Patel
 - d) Vittal Bhai Patel
- 64. Which Indian state first established the office of the Lokayukta in India?
 - a) Maharashtra b) Rajasthan
 - c) Bihar d) Orissa
- 65. Match List-I with List-II and select the correct answer from the codes given below:

	List-I	Lis	t-II	
(A) Go	a's Libe	eration	(i) 1	975
(B) Imp	position	(ii) 1	974	
Inte	ernal Er	nergency		
(C) Dea	ath of I	ndira	(iii)	1961
Gar	ndhi			
(D) Pol	khran E	(iv)	1984	
Codes:				
	А	В	С	D
a)	(ii)	(iv)	(i)	(iii)
b)	(iii)	(i)	(iv)	(ii)
c)	(i)	(ii)	(iv)	(iii)
d)	(iii)	(ii)	(iv)	(i)

66. Arrange the following Secretary Generals of UNO in order of their appointments:
(i) U Thant
(ii) Kurt Waldheim
(iii) Trygve Lie
(iv) Dag Hammarskjold

Codes:

	Coucs.					
	a)	(ii)	(i)	(iii)	(iv)	
	b)	(i)	(iii)	(iv)	(ii)	
	c)	(iii)	(iv)	(i)	(ii)	
	d)	(iv)	(iii)	(i)	(ii)	
67.	Which o	of the fol	lowing is	s not an i	nstrument	
	of mone	tary poli	cy?			
	a) Defic	it financi	ing			
	b) Statut	ory Liqu	idity Rat	io		
	c) Cash	Reserve	Ratio			
	d) Open	Market	Operation	ns		
68.	Match t	he follo	wing leg	gislations	with the	
	year of t	heir enao	ctment:			
	(A) Industries Development (i) 1969					
and Regulation Act						
	(B) Fore	ign Excl	nange	(i	i) 1951	
	Man	agement	Act			
	(C) Secu	irities Ex	change E	Board (i	ii) 1999	
	of In	idia Act				
	(D) Mor	nopolies	and Rest	rictive (i	v) 1992	
	Trad	e Practic	es Act			
	Codes:					
		А	В	С	D	
	a)	(i)	(iii)	(iv)	(i)	
	b)	(i)	(iv)	(iii)	(ii)	
	c)	(ii)	(iii)	(iv)	(i)	
	d)	(i)	(iii)	(i)	(iv)	

69. "Repo Rate" refers to the rate at which:

- a) The rate at which banks borrow from RBI
- b) Banks keeps the money with RBI
- c) Bills are discounted by RBI
- d) Forex is purchased by RBI

70. 'Retail Banking' means:

- a) Credit facilities extended to retail traders
- b) Providing personal banking services directly to the consumers
- c) Collection of large number of dividend/ interest warrants
- d) Providing services to the employees of large organisations
- 71. Which of the following bacterium is used in the recovery of otherwise unprofitable grades of Uranium and Copper ores?
 - a) Escherichia coli
 - b) Azotobacter

- c) Clostridium
- d) Thiobacillus ferrooxidans
- 72. A measure of the amount of oxygen consumed in the biological process that break down organic matter is known as:
 - a) Bioconcentration
 - b) Biochemical Oxygen demand
 - c) Bioaccumulation
 - d) Biomagnification
- 73. In colloidal chemical substance, the light undergoes:
 - a) Diffraction b) Polarization
 - c) Scattering d) Total internal reflection

74. Global Warming Potential of the gases increases in order of:
a) CH₄ > CO₂ > NO_X
b) NO_x > CH₄ > CO₂

- c) $CO_2 > CH_4 > NO_X$
- d) $CO_2 > NO_X > CH_4$
- 75. Photovoltaics (solar cells) work on the principle of:
 - a) Raman effect
 - b) Zeeman effect
 - c) Photoelectric effect
 - d) Faraday effect
- 76. Electromagnetic pollution is caused by:
 - a) Vehicular traffic
 - b) Mobile phones
 - c) Aircraft noise
 - d) Lightening and thunder storms
- 77. The greenhouse effect is due to:
 - a) Absorption of ultraviolet radiation by sea water
 - b) Absorption of infrared radiation by carbon dioxide and water vapor in the atmosphere
 - c) Infrared reflection by oceanic surfaces
 - d) Absorption of infrared radiation by plants.
- 78. Match List-I with List-II and select the correct answer from the codes given below

List-1	List-II
(A) Ultraviolet	(i) > 0.8m
(B) Atmospheric window	(ii) < 0.3 m

	(C) Ioni (D) Nea	sed radia	tion l	(iii) 8 (iv) X-	m to 13m -rays and		c) Vitamin C	d) Vitamin D
	Codes:			ga	imma rays	85.	Genetics deals with: a) Mendel's laws	
		А	В	С	D		b) Organic evolution	
	(a)	(iv)	(iii)	(ii)	(i)		c) DNA structure	
	(b)	(iii)	(iv)	(i)	(ii)		d) Heredity and Varia	ations
	(c)	(ii)	(i)	(iii)	(iv)			
	(d)	(ii)	(iii)	(iv)	(i)	86.	Blood is a/an	
							a) Connective tissue	b) Epithelial tissue
79.	Arrange the following layers of atmosphere vertically outward from the earth. Select the						c) Both of the above	d) None of the above
	answer from the codes given below:						Which of the followi	ng is a false fruit?
	(i) Ozor	nosphere	(ii)	Troposp	Troposphere		a) Apple	b) Betel-nut
	(iii) Me	sosphere	(iv) Ionospl	here		c) Mango	d) Cashew (nut)
	a) (i) (ii c) (ii) (i) (iii) (iv) ii) (i) (iv)	b) d)	(ii) (i) (ii (i) (iii) (i	ii) (iv) ii) (iv)	88.	Cure to spinal inju- from?	ry is likely to emerge
							a) Gene therapy	b) Stem cell therapy
80.	Which o	combinati	on of the	e followi	ng tribes is		c) Xenograft	d) Transfusion
	confine	d to a s	ingle st	ate of I	North East			
	India?					89.	Which of the follow	ving is not the part of
	a) Khas	i-Nagas	b)	Garo-Kh	asi		vehicle pollution?	
	c) Naga	-M1ZO	d)	Khası-M	.1ZO		a) H_2 b) CO	c) SO_2 d) N_2O
01	Lakaba	lucon Ial	anda ara	of				
01.	a) Volce	nic origi	and s are b)	01. Coral ori		90.	Which of the follow	ying is not the residual
	a) Volca	une origi	(0 1)	Alluvial	origin		human organs?	
		ine origi	i u).		ongin		a) Necatating screen	1 6 4 4
82	Which of these historic monuments is not						b) Ear drum musc	les of the tympanic
02.	associat	ed with F)elhi?	monum	citts is not		membrane	1.
	a) Gateway of India b) Appu Char				d) Appendix	n		
	c) Outu	bminar	d)	Red fort			u) Appendix	
				2		91.	The most significan	t stimulant in the tea
83.	Match t	he follow	ing				leaves is:	
	List-I I			List-II		a) Brucine	b) Caffeine	
	(A) Am	ylase	(i)	Saliva			c) Phenylalanine	d) Theine
	(B) Ker	atin	(ii)	Semen			•	
	(C) Cho	oline	(iii) Blood		92.	The bile is produced	through:
	(D) Hae	emoglobir	n (iv) Hair			a) Liver	b) Stomach
	Codes:						c) Pancreas	d) Receptor
		A]	В	С	D			-
	(a)	(i) (i)	(ii)	(iii)	(iv)	93.	Artificial silk is also	called:
	(b)	(ii) (iii)	(iv)	(i)	(iii)		a) Rayon	b) Dacron
	(c)	(iv) ((11)	(111)	(i)		c) Fibre glass	d) Nylon
	(d)	(i) ((1V)	(11)	(111)			
0.4		• 7 \	1 • •	• /		94.	Who was the discove	erer of radioactivity?
84.	84. The vitamin(s), which is / are generally				a) Madam Curie	b) Irene Curie		
	excreted in urine, is / are						c) Henri Becquerel	d) Rutherford

b) Vitamin K

a) Vitamin A

- 95. Light year is the unit of:a) Distanceb) Timec) Intensity of lightd) Mass
- 96. The weight of a human body is :
 - a) Same at every places on the earth's surface
 - b) Maximum at the poles
 - c) Maximum at the equator
 - d) More on the mountains than the plains
- 97. The highest Peace time award in India is:a) Ashok Chakrab) Shourya Chakrac) Kirti Chakrad) Vir Chakra
- 98. Who among the following has been appointed the Deputy Governor of RBIa) Urjit Patelb) R. Gandhic) HR Khand) G. Gopala Krishna
- 99. Which Sports Personality has been Awarded the Padma Sri (2014) recentlya) P. Kilemsungla
 - a) P. Kilemsungia
 - b) Mohammad Ali Baig
 - c) Deepika Pallikal
 - d) Vidya Balan
- 100. With the acquisiton of Ranbanxy by Sun pharma. What would be the rank of the combined firm at the global level in Generic drugs production?a) 2 b) 4 c) 6 d) 5
- 101. Two trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is: a) 2 + 2 b) 4 + 2 c) 6 + 7 d) 0 + 16

a) 2:3 b) 4:3 c) 6:7 d) 9:16

102. A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot @ 4 km/hr and partly on bicycle @ 9 km/hr. The distance travelled on foot is:

a) 14 km	b) 15 km
c)16 km	d)17 km

103. X can do a piece of work in 40 days. He works at it for 8 days and then Y finished it in 16 days. How long will they together

take to complete the work?

- a) $13\frac{1}{3}$ days b) 15 days c) 20 days d) 26 days
- 104. The average of 20 numbers is zero. Of them, how many may be greater than zero?a) 0b) 1c) 10d) 19
- 105. A certain amount earns simple interest of Rs. 1750 after 7 years. Had the interest been 2% more, how much more interest would it have earned?
 a) Rs. 35 b) Rs. 245
 c) Rs. 350 d) Cannot be determined
- 106. A flag staff of 5 mtrs high stands on a building of 25 mtrs high. At an observer at a height of 30 mtrs the flag staff and the building subtend equal angles. The distance of the observer from the top of the flag staff is

a)
$$\frac{5\sqrt{3}}{2}$$

b) $5\sqrt{\frac{3}{2}}$
c) $5\sqrt{\frac{2}{3}}$
(d) None of these

107. From the top of a light house 60 metres high with its base at the sea level, the angle of depression of a boat is 150. The distance of the boat from the foot of the light house is

a)
$$\frac{\sqrt{3}-1}{\sqrt{3}+1}$$
.60 mtrs b) $\frac{\sqrt{3}+1}{\sqrt{3}-1}$.60 mtrs
c) $\frac{\sqrt{3}+1}{\sqrt{3}-1}$ mtrs d) None of these

108. In a journey of 54 km, the speed of a bus will be 54 kmph excluding stoppages and the average speed is 45 kmph including stoppages. For how many minutes does the bus stop in its journey?

a) 9 b) 10 c) 12 d) 20

109. Gaurav spends 30% of his monthly income on food articles, 40% of the remaining on conveyance and clothes and saves 50% of the remaining. If his monthly salary is Rs. 18,400, how much money does he save every month?

a) Rs. 3624	b) Rs. 3864
c) Rs. 4264	d) Rs. 5888

110. A dairyman pays Rs. 6.40 per litre of milk. He adds water and sells the mixture at Rs.8 per litre, thereby making 37.5% profit. The proportion of water to milk received by the customers is:

a) 1:10 b) 1:12 c) 1:15 d) 1:20

- 111. Tarun got 30% concession on the labelled price of an article and sold it for Rs. 8750 with 25% profit on the price he bought. What was the labelled price?
 a) Rs. 10,000 b) Rs. 12,000
 c) Rs. 16,000 d) Data inadequate
- 112. Zinc and Copper are melted together in the ratio 9:11. What is the weight of melted mixture, if 28.8 kg of Zinc has been consumed in it?a) 58kg b) 60kg c) 64kg d) 70kg
- 113. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?

a) 2.4 km	b) 2.5 km
c) 3 km	d) 3.6 km

- 114. The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum?
 - a) 8 b) 10
 - c) 12 d) Cannot be determined

115. If
$$2^{x} = 3^{y} = 6^{-z}$$
 then $\left(\frac{1}{x} + \frac{1}{y} + \frac{1}{z}\right)$ is equal to:

a) 0 b) 1 c)
$$\frac{3}{2}$$
 d) $-\frac{1}{2}$

- 116. Let a, b, c be the lenghts of the sides of a triangle ABC. Let α, β, γ be positive integers and p = βa + γb + αc, q = γa + αb + βc and r = αa + βb + γc. The p, q, r are lengths of the sides of a triangle
 a) Only if α, β, γ are all distinct
 b) Only if α + β > γ, β + γ > α, γ + α > β
 c) For all values of α, β, γ
 d) Only if α > a, β > b, γ > c
- 117. If 1216451*0408832000 is equal to 19!, where * denotes a digit, then the missing digit * can be
 a) 0
 b) 4
 c) 2
 d) 5
- 118. A lattice point in a plane is one both of whose coordinates are integers. Let O be $(\sqrt{2},1)$ and P any given lattice point. Then the number of lattice points Q, distinct from P, such that OP = OQ is a) 0 b) 1
 - c) Not necessarily 0, not necessarily 1,but either 0 or 1

d) Indefinitely many

- 119. \overline{AB} and \overline{CD} are chords of a circle such that \overline{BA} and \overline{DC} intersect in a point E outside the circle. F is a point on the minor are BD such that $\angle FAB = 22^{\circ}$, $\angle FCD = 18^{\circ}$. Then $\angle AEC + \angle AFC = ?$ a) 400 b) 500 c) 600 d) 800
- 120. The length of a rectangle is halved, while its breadth is tripled. What is the percentage change in area?a) 25% increaseb) 50% increasec) 50% decreased) 75% decrease
- 121. If the perimeters of a square and a rectangle are the same, then the area A and B enclosed by them would satisfy the condition:

a) A < B	b) $A \leq B$
c) $A > B$	d) $A \ge B$

122. Three circles of radius 3.5 cm are placed in such a way that each circle touches the other two. The area of the portion enclosed

by the circles is:	
a) 1.967 cm ²	
c) 19.67 cm ²	

123. A tank 4 m long, 2.5 m wide and 1.5 m deep is dug in a field 31 m long and 10m wide. If the earth dug out is evenly spread out over the field, the rise in level of the field is:

b) 1.975 cm²
d) 19.75 cm²

a) 3.1 cm	b) 4.8 cm
c) 5 cm	d) 6.2 cm

124. A cylindrical tube open at both ends is made of metal. The internal diameter of the tube is 11.2 cm and its length is 21 cm. The metal everywhere is 0.4 cm thick. The volume of the metal is:

a) 280.52cm ³	b) 306.24 cm ³
c) 310 cm ³	d) 316 cm ³

- 125. The total surface area of a solid hemisphere of diameter 14 cm, is:
 - a) 308 cm^2 b) 462 cm^2 c) 1232 cm^2 d) 1848 cm^2
- 126. Which of the following numbers always divides the difference between the squares of two consecutive odd integers?
 - a) 7 b) 3 c) 8 d) 6
- 127. An officer was appointed on maximum daily wages on a contract money of Rs. 4956. But on being absent for some days, he was paid Rs. 3894. For how many days was he absent?
 - a) 1 b) 2 c) 3 d) 4
- 128. P, Q and R hire a shed for Rs. 2920. P puts 10 cows for 20 days. Q puts 30 cows for 8 days and R puts 16 cows for 9 days. Find the rent paid by R.

a) Rs. 735	b) Rs. 820
c) Rs. 575	d) Rs.720

129. A is thrice as good a workman as B and therefore is able to finish a job in 30 days less than B. How many days will they take to finish the job working together?

a)
$$10\frac{1}{4}$$
 b) $11\frac{3}{4}$
c) $11\frac{1}{4}$ d) $11\frac{1}{3}$

130. A and B can complete a work in 12 days and 18 days, respectively. A begins to do the work and they work alternately one at a time for one day each. The whole work will be completed in how many days?



131. X can do 20% of a work in a day. Y can do 35% of the same work in a day and X,Y and Z together can do 50% of the same work in a day. How much percent of work can be done by Z in a day?

a) 5% b) 10% c) 15% d) 20%

- 132. If x, y are rational numbers and $(x-1)\sqrt{2}+2 = y\sqrt{2}+x$, then the value of x + y is a) 1 b) 2 c) 3 d) 4
- 133. If $\sec \theta = x + \frac{1}{4x}$ then $\sec \theta + \tan \theta =$

a) 2x b) $\frac{1}{2x}$

- c) $2x \text{ or } \frac{1}{2x}$ d) None of these
- 134. If A, B and C are internal angles of $\triangle ABC$ then $\frac{B+C}{2}$ is equal to a) $\cot A$ b) $\cot \frac{A}{2}$ c) $\tan A$ d) $\tan \frac{A}{2}$
- 135. If $\cos A + \cos^2 A = 1$, then $\sin^2 A + \sin^4 A$ is equal to

a) 1 b)
$$\frac{1}{2}$$
 c) 0 d) -1

136. If
$$\sec\theta + \tan\theta = p$$
, then $\frac{p^2 - 1}{p^2 + 1} =$
a) $\sin\theta$ b) $\cos\theta$ c) $\sec\theta$ d) $\csce\theta$

137. $\triangle ABC$ is such that AB = 3 cm, BC = 2 cm and AC = 2.5 cm . $\triangle DEF$ is similar to \triangle ABC. If EF= 4 cm, then the perimeter of $\triangle DEF$ is a) 5 cm b) 7.5 cm

- 138. In $\triangle ABC$, $\angle BAC = 90^{\circ}$ and $AB = \frac{1}{2}BC$. Then the measure of $\angle ACB$ is a) 60° b) 30° c) 45° d) 15°
- 139. ABCD is a quadrilateral inscribed in a circle with centre O. If $\angle \text{COD} = 120^{\circ}$ and $\angle BAC = 30^{\circ}$, then $\angle BCD$ is a) 75° b) 90° c) 120° d) 60°
- 140. If DE = 4 cm, CD = 2 cm, AC = 1.5 cm, then BC is equal to



b) 6cm c) 4 cm d) 3 cm

141. ABCD is a parallelogram in which E is the mid point of BC. DE and AB are produced. If they intersect at F, which one of the following statements is correct?

a)
$$AF^2 = 2AB^2$$
 (b) $AF = \frac{3}{2}AB$
c) $AF = 2AB$ (d) $AF = 3AB$

142. What is the equation of the straight line, whose intercept by the axes is bisected at the point (3, -2)?

a)
$$3x + 2y = 12$$

b) $4x - 3y = 6$
c) $5x - 2y = 10$
d) $2x - 3y = 12$

143. If
$$\frac{a}{x-y} = \frac{b}{y-z} = \frac{c}{z-x}$$
, then $a + b + c$ is
equal to
a) 5 b) 6
c) 1 d) 0

- 144. If a circle is drawn to touch another circle and the centres of both circles and the point of contact are in a straight line, how many solutions of it are possible?
 - a) Two b) No one c) One d) More than two

DIRECTIONS (Q 145-150): Study the following line graph which gives the number of students who joined and left the school in the beginning of year for six years, from 1996 to 2001

Initial Strength of school in 1995 = 3000.



- 145. The number of students studying in the school during 1999 was? a) 2950 b) 3000 c) 3100 d) 3150
- 146. For which year, the percentage rise/fall in the number of students who left the school compared to the previous vear is maximum? a) 1997 b) 1998 c) 1999 d) 2000
- 147. The strength of school incresed/decreased from 1997 to 1998 by approximately what percent? a) 1.2% b) 1.7% c) 2.1% d) 2.4%

148. The number of students studying in the school in 1998 was what percent of the number of students studying in the school in 2001?

a) 92.13%	b) 93.75%
c) 96.88%	d) 97.25%

- 149. The ratio of the least number of students who joined the school to the maximum number of students who left the school in any of the years during the given period is?a) 7:9 b) 4:5 c) 3:4 d) 2:3
- 150. During which of the following pairs of years, the strength of the school was same?a) 1999 and 2001 b) 1998 and 2000c) 1997 and 1998 d) 1996 and 2000

Directions (151-160): Based on the following passage five questions are given. Read the passages carefully and choose the best answer to each question out of the four alternatives.

PASSAGE-I

The black-and-white dog made off as I went through the fence. But the red dog whimpered and hesitated, and moved on hot bricks as he was fat and in good condition. He waited while I went up to him, wagging his tail and whimpering, and ducking his head and dancing. He din't rub his nose with his paws any more; it hurt too much. I patted his head and looked at his nose, and he whimpered loudly. He must have had thirty quills, or more, sticking out of his nose; the white, ugly ends of the quills protruding from his already swollen, bloodpuffed muzzle.

- 151. The black-and-white dog ran away because:
 - a) He was being chased
 - b) He had been hit with stones
 - c) The red dog chased him
 - d) He heard his master's whistle
- 152. The red dog moved gingerly and restlessly because:
 - a) The sun was hot
 - b) He was in great pain

- c) He was frightened
- d) He was fat
- 153. The dog whimpered loudly when:a) The author examined his nose
 - b) He ducked his head
 - c) The author touched him
 - d) He moved on hot bricks
- 154. Wagging his tail the dog pleaded with the author to:
 - a) Remove the quills
 - b) Take him to the vet
 - c) Give him food
 - d) Take him back to his master
- 155. The word 'ugly' means:
 - a) Sharp b) Cruel
 - c) Black d) Repulsive

PASSAGE-II

To sum up the whole, we should say that the aim of the Platonic philosophy was to exalt man into a God. The aim of the Baconian philosophy was to provide man with what he requires while he continues to be a man. The aim of Platonic philosophy was to raise us far above the vulgar wants. The aim of Baconian philosophy was to supply our vulgar wants. The former aim was noble; but the latter was attainable. Plato drew a good bow; he aimed at the stars; and therefore, though there was no want of strength or skill, the shot was thrown away. His arrow was indeed followed by a track of dazzling radiance; but it struck nothing. Bacon fixed his eye on a mark which was placed on earth and hit it in the white. The philosophy of Plato began with words and ended in words, noble words indeed, words such as were to be expected from the finest of human intellects exercising boundless dominion over the finest of languages.

- 156. The above passage presents Platonic philosophy as:
 - a) Giving rise to vulgar wants
 - b) Too idealistic in terms of a realistic assessment of a man
 - c) No more than more words

- d) Being pragmatic
- 157. The author in the above passage:
 - a) Praises Platonic philosophy
 - b) Explains the drawbacks of Baconian philosophy
 - c) Balances opposite views in order to arrive at a just definition of each
 - d) Compares and contrasts two systems towards which he is impartial
- 158. Which one of the following best reflects the underlying tone of the passage?
 - a) All ideas regarding man are couched in noble words
 - b) Man when exalted into a god comes to nothing
 - c) It is better for man to continue to be a man
 - d) It is the image of man conceived differently that makes the basic distinction between different systems
- 159. Which of the following words in the passage confirm the exalted notions of man according to Plato?
 - a) 'Exercising boundless dominion'
 - b) 'He aimed at the stars'
 - c) 'Fixed his eye on the mark and hit in the white'
 - d) 'There was no want of strength or skill, the shot was thrown away'
- 160. The reference to a bow and an arrow in the passage:
 - a) Serves as an example of Plato's strength
 - b) Teaches us to stay focused on target
 - c) Shows us a track of dazzling brilliance in man's history
 - d) Shows us the comparative strengths and weaknesses of Platonic and Baconian systems.

Directions (161-165): In the following questions, sentences are given with blanks to be filled in with appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

161. The little girl was knocked down by a speeding car and she lost her ____

immediately.

a) Conscience	b) Conscientious
c) Conscious	d) Consciousness

- d) Consciousness
- 162. They have had to put _____ the football match because of snow b) off a) of c) up d) on
- 163. Ten miles _____a long way to walk. b) is a) are c) are being d) are not
- 164. Mounting his horse, the bandit rode_ c) about d) off a) on b) by
- 165. Having come _____ age, his son entered into partnership with him. a) off b) by c) to d) of

Directions (166-170): In the following questions, out of the four alternatives, choose

the one which best expresses the meaning of the given word.

166. BARGE

a) interpret	b) shout
c) restrain	d) push

167. SCINTILLATING

- b) touching a) warming c) glittering d) smouldering
- 168. SURFEIT

a) excess	b) passing
c) confiscation	d) delegation

169. DOGMA

a) possibility	b) feeling
c) tenet	d) doubt

170. PETTIFOGGING b) unimportant a) lenient d) strong c) stable

Directions (171-175): In the following questions, choose the word opposite in meaning to the given word.

171. FECUND

a) barren	b) solid
c) unploughed	d) hard

172. GOBLIN

a) angelc) traveller

173. AMBIGUOUS

a) obscure

c) explicit

- .
- b) secular d) equivocate

b) hermit

d) pilot

- 174. STRIDENT
 - a) stableb) pleasantc) musicald) melodious

175. DREARY

a) plenty	b) monotonous			
c) unhappy	d) cheerful			

Directions (176-180): In the following questions, some idioms, phrases and sayings have been given in bold at the question places. Each of them is followed by four options of its meaning or sense. Choose the one from the four as the right meaning or sense of each idiom or phrase or saying.

176. To tread on someone's toes

- a) to be in power
- b) to commence to fight
- c) to sacrifice one's life
- d) to give offence to someone

177. To be well-off

- a) to dispute about a thing
- b) to bring one to the positon of disadvantage
- c) to be in comfortable condition
- d) to be scolded severely

178. To bother one's head about

- a) to learn something merely by memory
- b) to give attention to something
- c) to apply harsh treatment to someone
- d) to be deprived of something
- 179. To serve the turn
 - a) to suit one's purpose
 - b) to make something look foolish
 - c) to select from among the worst
 - d) to confess one's guilt
- 180. To die in one's shoesa) to be in miserable condition

b) to speak without permission

- c) to bring a person into ridicule
- d) to die by hanging

Directions (181-190): In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is the answer. If there is no error. your answer is (d). i.e., No error.

- 181. The interviewer asked the candidates (a)/to what district (b)/he came from.(c)/No error (d)
- 182. The ruling party stood(a)/ for implementation of the bill (b)/and was ready to stake their political existence.(c)/No error (d)
- Wherever they go (a)/Indians easily adapt to (b)/local circumstances.(c)/No error (d)
- 184. He is (a)/taller (b)/then me.(c)/No error (d)
- 185. My friends insisted (a)/that I should see the movies (b)/from beginning to the end. (c)/No error (d)
- 186. We all (a)/must respect (b)/a honest person.(c)/No error (d)
- 187. One of the most (a)/widely spread bad habit(b)/is the use of tabacco.(c)/No error (d)
- 188. He says that (a)/he has a car(b)/beside a scooter.(c)/No error (d)
- 189. I found it difficult (a)/to remove the chewing gum that (b)/stuck with my cap. (c)/No error (d)
- 190. My answer (a)/is different (b)/than yours. (c)/No error (d)

Directions (191-195): In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

191. a) emulsify
c) empresb) emelsion
d) encompas

192. a)	horify		b) horendo	ous	46. A	47. D	48. C	49. D	50. D
c) haroscope			d) horrend	ous	51. B	52. A	53. B	54. B	55. C
103 a) liquor			h) linityne		56. B	57. B	58. C	59. C	60. D
1)5. a)	lineement		d) lingusti	с	61. C	62. C	63. C	64. D	65. B
			, 0		66. C	67. A	68. C	69. A	70. B
194. a) sinusitis b		b) siox		71. D	72. B	73. C	74. B	75. C	
c)	sistertly		d) sisyphe	n	76. B	77. B	78. D	79. B	80. B
195. a)	talkattive		b) tumultu	ous	81. B	82. A	83. D	84. C	85. C
c) tution			d) tenacios	5	86. C	87. B	88. B	89. A	90. C
					91. B	92. A	93. A	94. C	95. A
Directions (196-200): In the following			96. B	97. A	98. B	99. C	100. D		
the	questions, out of the four alternatives, choose the one which can be substituted for the			101. B	102. C	103. A	104. D	105. D	
give	en words/ s	sentence			106. B	107. B	108. C	109. B	110. A
196. Th	ne worship	of idols	or images		111. A	112. C	113. A	114. A	115. A
a)	Atheism		b) Theism		116. C	117. A	118. C	119. A	120. B
6)	luolatry			asiii	121. C	122. A	123. C	124. B	125. B
197. So	mething th	nat is po	isonous or	unhealthy	126. C	127. C	128. D	129. C	130. B
a) Trivial b) Toxic					131. A	132. C	133. C	134. B	135. A
c) Torpid			d) Tragic		136. A	137. C	138. B	139. B	140. A
198. A	remedy fo	r all dise	eases		141. C	142. D	143. D	144. A	145. D
a) Amnesia b) Panacea				146. A	147. B	148. B	149. D	150. D	
c)	Intelligent	sia	d) Parasol		151. A	152. B	153. C	154. A	155. D
100 A	hotor of m	onkind			156. B	157. D	158. D	159. B	160. D
a) Misanthrope b) Misogynist			161. D	162. B	163. B	164. D	165. D		
c)	Philanthro	pist	d) Misoga	mist	166. D	167. A	168. A	169. C	170. B
200. Irresistible craving for alcoholic drinks			171. A	172. A	173. C	174. B	175. D		
			176. D	177. C	178. B	179. A	180. D		
a) Megalomania b) Dipsomania c) Kleptomania d) Pyromania		181. B	182. C	183. B	184. C	185. C			
,	I		, ,		186. C	187. B	188. C	189. C	190. C
					191. A	192. D	193. A	194. A	195. B
		Key	7		196. C	197. B	198. B	199. A	200. B
1. B	2. D	3. A	4. A	5. C					
6. B	7. C	8. C	9. D	10. C					
11. A	12. C	13. C	14. B	15. D					
16. B	17. D	18. B	19. A	20. D					
21. B	22. D	23. D	24. B	25. C				Pre	pared by
26. D	27. D	28. A	29. C	30. B			Class	smate A	cademy,
31. B	32. C	33. C	34. C	35. B				Ну	derabad
36. D	37. D	38. D	39. B	40. C					
41. B	42. C	43. D	44. C	45. B					