INSPECTOR OF LEGAL METROLOGY

YEAR OF ADVT:2017

DATE OF EXAM: 11-MAY-2019

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

QUESTION BOOKLET

SERIES I

Subjects: General English, General Studies & Aptitude and Arithmetic

BOOKLET SERIAL NO.

400113

Marks: 300 Time: 3 (three) hours

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This booklet contains **200 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following three parts:

Part-A-General English: 50 questions, Part-B-General Studies & Aptitude: 100 questions,

Part-C-Arithmetic: 50 questions

- 2. All Questions are compulsory.
- You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.
- 4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/ double series marking shall not be evaluated.

Example:

Supposing the following question is asked:-

The Capital of Meghalaya is-

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below:-

(A)

(B)

(D) (D)

In the above illustration, if your chosen response is alternative Ci.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below:-

A

(B)

(1) (1)

WHICH IS THE ONLY CORRECT METHOD OF ANSWERING

- 5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
- 6. There will NOT be any negative marking for wrong answers.
- 7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
- 8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

PART-A-GENERAL ENGLISH

Marks:100

Each question carries 2 marks:

	SECTION-I			of studying abroad
		in their second		
A. Choose the co	rrect option to fill in the	a) option	b) ch	
gaps:		c) possibility	d) alt	remative
1. The laboratory c	onducted an to mea-	11. He	me he was i	right.
	of ore in the composition.		b) pre	
	b) essay		d) co	
c) array	d) assay			
				he never uses.
2. A rudely carved s	stone lion is locally regarded	a) tools	b) de	vices
	st famine and plague.	c) appliances	d) ga	dgets
	b) talisman			
c) totem	d) colophon		air made her fa	
			b) tin	
3. The minister is	tempted to money	c) sting	d) ac	he
from the church.				
	b) forgo		the silk deli	
c) tackle	d) embezzle		b) pa	
Address in	at Salarina et la company	c) handled	d) fir	igered
	cted, a candidate needs only			
a of the vo			her.	
	b) plurality	a) frightened	b) sc	ared
c) morsel	d) modicum	c) terrified	d) ala	irmed
E TT: 15 11 1	11.1.1.1.1.1.11	16 11		369 764
	ll the land still with		were wild with	
her.		a) fright	b) pa	nic
a) rankled		c) fear	d) ter	ror
c) ransacked	d) rambled	17 V design		ć C -
6 The photocraph				to our future.
	awakens memo-	c) vital	b) cri	
ries of happier days	b) poignant	c) vitai	d) ess	sciitiai
		19 Charros	ow. ot	the river also had
	d) pontifical	been treated.		the way she had
	in the kitchen for Nancy.		b) cre	
	b) pallet	c) indignant	d) ma	ıd
c) palate	d) pellet			
			, at the	prospect of trav-
	by lightning.	elling alone.		
a) sired	b) steered	a) scared	b) ala	
c) cored	d) seared	c) paranoid	d) fri	ghtened
9. The tests are de	esigned to the dis-	20. Ravi was	accurate	his calcula-
ease early.		tions.	S. C. P.	and the second s
	b) detect	a) with	b) on	
c) witness	d) observe	c) in	d) at	

21. Do you take his	word mine	?	a) (i) and (ii)	b) (i) and (iii)
a) over	b) or		c) (ii) and (iii)	d) (i), (ii) and (iii)
c) for	d) with			
			30. (i) He doesn't	have a cold today.
22. He takes a lot of	trouble his	work.	(ii) He has a cold t	today.
a) in	b) about		(iii) He hasn't a co	ld today.
c) for	d) with		a) (i) and (ii)	b) (i) and (iii)
			c) (ii) and (iii)	d) (i), (ii) and (iii)
23. The public was	cautioned	pick-		
pockets.				
a) about	b) of		SECT	TION-III
c) over	d) against			
			C. Read the follo	owing passage and answer
24 a party	y next Sunday. I hope	e you	the questions giv	en below as instructed:
can come.				
a) we have	b) we're having		Nothing sh	arpens a man's wits like pov-
c) we'll have	d) we'd have		The state of the s	f the greatest men have origi-
25 D				n. Poverty often purifies and
	cide book to	read.		rals. To spirited people, diffi-
a) what	b) whose			ly the most delightful ones. If
c) which	d) whatever			the testimony of history, men
				and magnanimous, not in pro-
				alth, but in proportion to their
OF.	COTTANT			s. And the best are often the
SEX	CTION-II			oposing that they have suffi-
D Chasse the see				temporal wants.
B. Choose the cor	rrect sentences:			as said that God has created
36 (i) The				not created misery. And there
	they missed the train	was		difference between the two.
that the car broke do				erty is honourable, misery is
	missed the train wa	s be-		ich as the latter is for the most
cause the car broke				nisconduct, and often of idle-
	train because the car	broke		ess. Poverty is no disgrace to
down.	1.) (') 1 (''')			with it; but he who finds the
a) (i) and (ii)	b) (i) and (iii)		Professional J. 1988 (1984)	get warm in his hand, never
c) (ii) and (iii)	d) (i), (ii) and (iii)		does any good, but	a great amount of evil.
27 (:) 11- :11	· · · · · · · · · · · · · · · · · · ·			
	er if you write to him.			copriate antonyms of the
	r if you wrote to him.		following:	
	answered if you had w	ritten	24 337	
to him.	to (2) 1 (222)		31. Wit	1) C
a) (i) and (ii)	b) (i) and (iii)		a) Acumen	b) Composure
c) (ii) and (iii)	d) (i), (ii) and (iii)		c) Stupidity	d) Levity
28. (i) He is always	early.		32. Spirited	
(ii) He will always c			a) Intrepid	b) Fiery
(iii) He always come			c) Diffident	
a) (i) and (ii)	b) (i) and (iii)			
c) (ii) and (iii)	d) (i), (ii) and (iii)		33. Temporal	
			a) Mundane	b) Transient
29. (i) You need to c	ut your hair.		c) Ephemeral	d) Spiritual
(ii) Your hair needs o				
(iii) Your hair badly i			34. Poorest	
	1,000 K (K (

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. 61		
a) Insolvent	b) Impecunious	a) toro
c) Opulent	d) Indigent	c) sine
		a decidad
35. Disgrace		45. 0
a) Dishonor	b) Distinguish	promo
c) Discredit	d) Disrepute	a) altri
,	District Control of the Control of t	c) pac
	opriate meaning of the	
	v in the specific context	46. O
of the passage:		a) ana
		c) note
36. Braces		
a) Enervates	b) Debilitates	47. A
c) Reinforces	d) Tightens	to a la
		a) har
37. Testimony		c) sym
a) Evidence	b) Legacy	
c) Will	d) Affidavit	48. De
		a) ben
38. Delightful		c) ben
a) Enchanting	b) Captivating	
c) Pleasing	d) Ecstatic	49. To
		a) asc
39. Rely	The state of the s	c) asc
a) Depend	b) Trust	
c) Lean	d) Bet	50. U
40 34'		a) unii
40. Misery	1) 0 1 1	c) disi
a) Calamity	b) Ordeal	
c) Despondency	d) Grief	
CIT.	CTION IV	
SEC	CTION-IV	
D Choose the se	wood magning for the	
	rrect meaning for the	622
phrases given belo	W :	

- 41. An established principle of practical wisdom means
- a) proverb
- b) tenet
- c) moral
- d) maxim
- 42. That is full of more words than neccessary means
- a) circumlocution
- b) loquacious
- c) verbose
- d) tautological
- 43. A person who always thinks he is ill
- a) octogenarian
- b) valetudinarian
- c) valerian
- d) agrarian
- 44. One who leads others in any field means

- ch-bearer b) pioneer d) entrepreneur ecure
- ne who loves mankind and seeks to ote the good of others means
- uist

b) humanitarian

ifist

d) philanthropist

- ne with an evil reputation means.
- rchist

b) terrorist

orious

d) renegade

- A noisy bombastic speech addressed arge assembly means
- angue
- b) rally
- posium
- d) conference
- oing good means
- eficial
- b) benevolent
- eficent
- d) benediction
- o agree means
- end
- b) assent
- ent
- d) Accent
- nbiased means
- nterested
- b) indifferent
- interested
- d) dispassionate

3

PART - B -GENERAL STUDIES & APTITUDE

Marks: 100

Each question carry	1 mark:	country?			
		a) Japan	b) South Korea		
	The state of the s	c) China	d) Russia		
* 15.0000	b) Spanish				
c) Portuguese	d) Latin	62. Which country i	s known as the Land of		
		Thousand Lakes ?			
52. Gautama Buddha	was born in which coun-	a) Norway	b) Denmark		
try?			division and the second se		
a) India	b) Myanmar	o) residing	d) I IIIdid		
c) Bhutan	d) Nepal	63 The highest Civili	et Civilian Award in India is 2		
53. Ichthyologists are	zoologists studying				
		c) Bilarat Ratila	d) Padilia Silli		
			7 1 1 1 1 1		
a) Japan b) South Ko c) China d) Russia c) Portuguese d) Latin 52. Gautama Buddha was born in which country? a) India b) Myanmar c) Bhutan d) Nepal 53. Ichthyologists are zoologists studying a) Birds b) Fish c) Snakes d) Insects 54. Kimberlite contains what precious item? a) Diamond b) Emerald c) Ruby d) Platinum 55. Translated from Persian to English, what does Koh-i-Noor mean? a) Mountain of Light b) Break of Dawn c) Shining star d) Radiant beauty 56. Who was the first Chief Justice of the Republic of India? a) Japan b) South Ko c) China d) Russia c) China c) Russia c) Rus Aiversia in the state for the maximum period of a) 2 months c) China c) Russia c) Rusker c) Leand d) Russia c) Rusker c) Iceland d) Finland c) Budma Bhushan b) Khel Ratic c) Bharat Ratna d) Padma Bhushan c) Bharat Ratna d) Padma Bhushan c) Bharat Ratna d) Padma Bhushan c) Bharat Ratna d) Padma Sharat c) Bharat	Code was enacted in which				
54 Vimborlita contain	a what procious item ?				
	수 있다. 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그				
		c) 1910	d) 1912		
c) Ruby	a) Platinum				
## TO 1 10 TO			bers of the Rajya Sabha		
	anslated from Persian to English, what does are nominated by the President?		President ?		
		a) 10	b) 12		
		c) 15	d) 18		
c) Shining star	d) Radiant beauty				
		66. President's Rule (Article 356) remains valid			
56. Who was the first	Chief Justice of the Re-				
public of India?			ne state for the maximum period of months b) 4 months		
a) M. Patanjali Sastri					
b) Amal Kumar Sarka	r	cy o monans	d) 12 months		
		67 Who was the fo	under of first European		
			ing :		
57. The Right to Infor	mation Act was enacted		instead and Disco		
			the second of the second		
	b) 2004				
	5일 마양 1 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	d) Captain James Co	ok		
C) 2003	a) 2000				
50 Manalli is an alta					
		a) 1956			
		c) 1958	d) 1959		
c) Earthquake	d) Light				
#0 FT 1 1		69. Who was the first	Indian to get a gold medal		
		in Olympics in shooting	ng event		
		a) K.D. Jadhav			
c) Lead	d) Zinc	b) Major Rajyawardh	nan Rathor		
60. Who is known as	the Father of Genetics?	그는 그들은			
a) Mendel	b) Crick	- January Santa			
c) Watson	d) Darwin	70. When did India si	accessfully launch its first		
61. The Opium Wars	were fought in which		•		
		a) 10 Septemoei, 20			

- b) 22nd October, 2008
- c) 5th October, 2008
- d) 3rd January, 2018
- 71. Who is the current Chief Justice of India?
- a) Dipak Misra b) T.S. Thakur
- c) Jagdish Khehar d) Ranjan Gogoi
- 72. Who is the Chief Election Commissioner of India?
- a) Nasim Zaidi b) H.S.Brahma
- c) Om Prakash Rawat d) Navin Chawla
- 73. In which state is the Buddhist site Tabo Monastery located?
- a) Arunachal Pradesh
- b) Himachal Pradesh
- c) Sikkim
- d) Uttarakhand
- 74. The accumulation of stress along the boundaries of lithospheric plates results in which of the following?
- a) Earthquakes
- b) Magnetic reversals
- c) Hurricanes
- d) Increased deposition of deep-sea sediments
- 75. The theory which advocates that living beings can arise only from other living beings is termed
- a) Bio-genesis
- b) Abiogenesis
- c) Catastrophism
- d) Cosmozoic
- 76. The wonder pigment chlorophyll is present
- a) Mitochondria
- b) Centrosomes
- c) Quantosomes
- d) Lysosomes
- 77. Who receives Dronacharva Award?
- a) Scientists b) Sports Coaches
- c) Movie actors d) Sportsmen
- 78. The Panchayat Raj is a
- a) One-tier System
- b) Two-tier System
- c) Three-tier System
- d) Four-tier System
- 79. Gobar gas contains mainly
- a) Carbon dioxide
- b) Methane
- c) Ethylene

- d) Carbon monoxide
- 80. The French supremacy in India came to an end with the
- a) Battle of Wandiwash
- b) Battle of Plassey
- c) Battle of Buxar
- d) Battle of Panipat
- 81. Gondwana hills are located in
- b) Jammu and Kashmir
- c) Madhya Pradesh d) Nagaland
- 82. Which of the following is not a Fundamental Right?
- a) Right to equality
- b) Right to property
- c) Right against exploitation
- d) Right to freedom of speech and expression
- 83. The concept of welfare state is included in the Constitution of India in
- a) Preamble
- b) Fundamental Rights
- c) Fourth Schedule
- d) Directive Principles of State Policy
- 84. Mixed economy means
- a) Coexistence of small and large scale industries
- b) Coexistence of private and public sectors
- c) Promotion of agriculture as well as industries
- d) Coexistence of rich and poor
- 85. Which was the first company formed to manufacture motor cars?
- a) Diamler
- b) Ford
- c) General Motors
- d) None of these
- 86. Tim Berners-Lee is an English scientist known as the inventor of the?
- a) e-mail
- b) world wide web
- c) instant messaging
- d) voice over IP (VOIP)
- 87. Which vitamin helps our body to fight colds
- a) VitA
- b) VitB
- c) Vit B complex d) Vit C
- 88. Linen is made from which plant?
- a) Flax
- b) Cotton
- c) Jute
- d) Hemp

89. How many time		Earth?		ing is primarily composed	
a) 20	b) 22		of calcium carbonate		
c) 24	d) 26		a) Fish scalesc) Oyster Shells	b) Shark teeth d) Whale bones	
90. Table sugar, from	sugar cane or beet, i	s what			
type of sugar?			100. Yeast, used in ma	king bread is a	
a) Fructose	b) Sucrose		a) plant	b) fungus	
c) Glucose	d) Maltose		c) bacteria	d) seed	
91. The branch of me	edical science which	is con-	101. The Statue of Lib	perty is green because of	
cerned with the study	y of disease as it aff	fects a	a) green stone	b) oxidized brass	
community of people	is called		c) steel painted green	d) oxidized copper	
a) epidemiology	b) oncology				
c) paleontogy	d) pathology		102. The word atom meaning	is from a Greek word	
92. The study of hov	y neonle use tools t	o per-	a) small	h) indivisible	
form work and how	* *	A CONTRACTOR OF THE PARTY OF TH	c) unseen		
their working enviror		iate to	c) diistori	d) visioic	
a) engineering	b) ergonomics		103 Pollination by wir	nd is called	
c) agronomy					
c) agronomy	d) physiology				
c) agronomy d) physiology a) autogamy c) anemophily c) anemophily c) anemophily d) ornithophily 93. What famous scientist and inventor participated in the invention of the Aqua-Lung-self contained underwater breathing apparatus? a) Thomas Edison b) Isaac Newton c) Leonardo da Vinci d) Jacques Cousteau c) autogamy c) anemophily c) anemophily a) ornithophily a) a rise in the earth's crust b) sand brought in from the mainland c) collapse of the center of a volcano d) coral reef upbuilding during subsidence			u) orminopiniy		
			104 Atalla are most a	rabably formed by	
		The state of the s			
그 사람들은 그 사람들이 그 그는 사람들이 되었다. 그는 사람들이 가장 사람들이 그 것이 되었다. 그는 사람들이 모르는 그는 사람들이 되었다.					
c) Leonardo da vinci d) Jacques Cousteau		sicau			
04 A type of plactic	that is hindayradah	la has	a) corai reer upounding	g during subsidence	
			105 Th 1: 4:	1 1	
		it that		element most commonly	
pated in the invention of the Aqua-Lung-self contained underwater breathing apparatus? a) Thomas Edison b) Isaac Newton c) Leonardo da Vinci d) Jacques Cousteau c) collapse of the center of a volume of the earth's crust d) coral reef upbuilding during so detected in humans is a) vegetable oil b) petroleum c) cornstarch d) leather c) iodine-131 d) pluto contained in the invention of the Aqua-Lung-self a) a rise in the earth's crust d) and a rise in the earth's crust do not consider the main of the center of a volume of the center of		1) 1 1 (0			
c) cornstaren	d) leather		c) 10dine-131	d) plutonium-238	
Of Ifamatal and ha	d		100 4 :	C. C.	
	arawn into wires reia	atively			
그리 그리 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	1 \ 1 \				
a) malleable	b) ductile			Plant in the Soviet Union	
c) extractive	d) tactile		was the		
06 1 1:1	1 10		a) reactor	st probably formed by th's crust from the mainland center of a volcano ding during subsidence ive element most commonle is b) cobalt-60 d) plutonium-238 t safety feature required a r plants that was not present wer Plant in the Soviet Unio b) cooling water d) containment building following materials is use and limestone to produce iron	
96. In which country rust-resistant iron di			c) control rods	d) containment building	
tury B.C.?			107. Which of the foll	owing materials is used	
a) Sumeria	b) Egypt		along with iron ore and	limestone to produce iron	
c) India	d) Babylon		in a modern blast furna	ace?	
			a) coke	b) cementite	
97. Cystitis is the inf	ection of which of the	he fol-	c) coal	d) bauxite	
lowing?					
a) liver	b) urinary bladde	er	108. What range of fre	equencies are usually re-	
c) pancreas	d) lung		ferred to as audio frequency		
•			a) 0 to 20 Hertz	1	
98. The per capita bi	rth rate of a popular	tion is	b) 20 to 20,000 Hertz		
known as its	The same and the same and the		c) 200 to 200,000 Hert:	z	
a) mortality	b) natality		d) 10,000 to 30,000 He		
c) population density	d) carrying capa	city	.,,	gen distance fill	
, 1 1	,, supu				

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- 109. In the early 17th century, based on his observations with a telescope, Galileo Galilei attacked a belief espoused by the church. That belief was
- a) that the earth was flat
- b) the sky was a large dome with holes through which heaven could be seen
- c) that the earth was at the center of the uni-
- d) there are no other planets.
- 110. You use a hydrometer to check the condition of the electrolyte in your car battery. It is actually measuring what property of the fluid?
- a) charge
- b) density
- c) temperature
- d) surface tension
- 111. When petroleum is refined it is subject to a number of processes including cracking. During the cracking process
- a) lighter hydrocarbons are combined to form heavier ones
- b) heavy hydrocarbons are broken up into lighter
- c) lighter hydrocarbons are separated by distil-
- d) oxygen is used to burn the heavier hydrocarbons
- 112. Which of the following is believed to be responsible for the hole in the ozone layer over Antarctic ?
- a) carbon dioxide
- b) compounds containing sulphur
- c) radioactivity
- d) compounds containing chlorine
- 113. A thermocouple is used to measure
- a) pressure b) current
- c) strain
- d) temperature
- 114. "Fool's gold" is a common name for this mineral
- a) halite
- b) cinnabar
- c) magnetite
- d) pyrite
- 115. Which two gases are used to disinfect water in sewage treatment facilities?
- a) helium and nitrogen
- b) ozone and chlorine
- c) oxygen and hydrogen
- d) nitrogen and chlorine

- 116. Raja Ram Mohan Roy was the founder of
- a) Brahma Samaj
- b) Arya Samaj
- c) Ramakrishna Mission
- d) Hindu Mahasabha
- 117. Who convinced the British in 1829 to outlaw Sati?
- a) Raja Ram Mohan Rov
- b) Swami Dayananda Saraswati
- c) Lokmanya Tilak
- d) Bhagat Singh
- 118. Swami Vivekananda, known in his premonastic life as
- a) Narendra Nath Datta
- b) Vishwanath Datta
- c) Upendranath Datta
- d) Vasava Datta
- 119. Prominent in the Labour and Socialist movements, a member of the Fabian Society and Social Democratic Federation, and took an active part in Trade Union work among unskilled labourers.
- a) Annie Besant b) H.P. Blavatsky
- c) W. T. Stead
- d) H. S. Olcott
- 120. The swadeshi movement in Bengal started
- a) 1902
- b) 1905
- c) 1908
- d) 1909
- 121. The Indian National Congress was founded
- in 28 December 1885 at
- a) Bombay
- b) Calcutta
- c) Madras
- d) Gujarat
- 122. Who appoints the chairman of the Finance Commission
- a) The President
- b) Prime Minister
- c) Council of Ministers
- d) Vice President
- 123. The duration of an ordinance issued by the President of India is
- a) 6 weeks
- b) 1 year
- c) 6 months
- d) 6 weeks from the date of assembly of the Parliament

124. Quo warrant	o is		132. Using all th	ne letters of the word	l "PLACE".
a) Writ	b) statute			ds can be formed,	
c) Treaty	d) Act		with P and end		2,30
			a) 6	b) 8	
125. Who said "th	ne Preamble is the ke	ey to the	c) 12	d) 20	
Constitution",					
a) Dr.B.R. Ambed	lkar		133. 56 men ca	in complete a piece	of work in
b) Dr. Rajendra P.	rasad			v many days can 42	
c) Jawaharlal Neh	ıru		plete the same '		
d) C. Rajagopalaci	hari		a) 18 days	b) 32 days	
			c) 98 days	d) 48 days	
Each question ca	rry 1 mark:		134. What is the 60, 120, 210	e next value in the	series 6, 24,
126. Five boys we	ere climbing a hill. J	was fol-	a) 336	b) 340	
	just ahead of G. K		c) 348	d) 360	
	ey were climbing up i		0,510	<i>u)</i> 500	
umn. Who was the			135. In a span	of 24 hours, how	many times
a) H	b) K			ands of a clock poir	
c) G	d) J		opposite direction		it oridotty in
			a) 10		
127. The length of	the side of a square i	is repre-	c) 22	d) 23	
	The length of the sid				
	e is 2x. If the square		136. In a certai	n code 'LIGHT' is	written as
	e have equal perimet			'PLUGH' written i	
the value of x is			a) OMTHG	b) QMTH	
a) 2	b) 3		[1]	d) QKTHO	
c) 4	d) 5		3, 01.111	w) Q113110	•
			137. Three of th	ne following four ar	e alike in a
128. A number wh	ose reciprocal is the	number		so form a group. V	
itself	•			t belong to that gro	
a) 0	b) 1		a) Proton	b) Electron	
c) 2	d) 3		c) Atom	d) Neutron	
129. If point P is on	line segment AB, the	n which	138. Pointing to	wards Paul, Mary s	said. "He is
of the following is				only son of my gra	
a) $AP > PB$	b) PB > AP		How is Paul rela		
c) $AB > AP$	d) $AB > AP +$	PB		b) Cousin	
				d) Insuffici	ent data
130. All men are	vertebrates. Some m	ammals			and Shribes
are vertebrates. W	hich of the following	conclu-	139. The base of	f a right angled trian	ngle is 5 cm
	the above statement			use is 13 cm. The	
rect.			triangle is		
a) All men are mar	mmals			b) 30 cm ²	
b) All mammals ar	e men			d) 120 cm ²	
c) Some vertebrate	es are mammals				
d) All vertebrates a			140. The price of	f an item that cost	Rs.100 was
				What is the new pri	
131. If we are using	ng a binary (two valu	ue) sys-	a) 120	b) 125	ta deg
	nique combinations		c) 130	d) 135	
make with 5 binary				-/-	

8

b) 30 d) 34

a) 28 c) 32

ILM-19

141. Two numbers are respectively 20% and 50% more than a third number. The ratio of the

two numb	ers is		
a) 2:5		b) 3:5	
c) 4:5		d) 6:7	4.8%
142. Pick	the odd one fr	om the series : 6, 9,	15,
21, 24, 28,	, 30		
a) 28		b) 21	
c) 9		d) 30	
143 A clo	ock is started a	at noon. By 10 min	utes
		s turned through	GCOS
a) 145 deg		b) 150 deg	
c) 155 deg		d) 160 deg	
c) 133 de	5	d) 100 deg	
144. If "C	GREEN" is giv	en number code as	49,
		between the nun	nber
	'VIOLET" an		
a) 33		b) 45	
c) 50		d) 53	
145. Which number ?	ch one of the f	collowing is not a pr	rime
a) 7		b) 23	
Strate of the same			
c) 49		d) 17	
146. Toda	y is Monday. A	After 61 days, it wil	l be:
a) Wedne	ssday	b) Saturday	
c) Tuesda	y	d) Thursday	
147. In a	coded message	e, SLOW MOVE, O	GET
		AWAY is written	
VFMD Z		PCTLDCOXU, QF	
CDCI.	_		
a) UCFN		b) UCFIN	
c) UCINI		d) UCHIN	
148. In a	certain code, N	MEN is written as A	ABC
		LSTZ. How can RE	
be written	in this code?		
a) TCSL		b) TBSL	
c) TASL		d) TLSL	
149 If th	e sum two ni	imbers is 31 and t	heir
		the absolute differ	
*	he numbers	the absolute differ	ciicc
a) 1	ne numbers	b) 3	
c) 4			
C) 4		d) 5	
		number is less that	n its
	24. What is the	he integer?	
a) 5		b) 7	
c) 8		d) 9	
		V 0 0 F 18 200 C	

PART - C - ARITHMETIC

Marks:100

Each question carries 2 marks:

151. On dividing 4217 by a certain number, the quotient is 108 and the remainder is 5, the divisor is

- a) 108
- b) 54
- c) 49
- d) 39

152. The number nearest to 2160 and exactly divisible by 52 is

- a) 2184
- b) 2148
- c) 2177
- d) 1232

153. When the numbers 1, 3, 5,, 25 are multiplied together, then the number of zeroes at the right end of the product is

- a) 13
- b) 9

c) 6

d) 0

154. The least number which when divided by 36, 48 and 64 leaves the remainders 25, 37 and 53 respectively is

- a) 556
- b) 565
- c) 655
- d) 656

155. If the LCM of two numbers is 240 and their HCF is 16, then the two numbers are

- a) 24 and 40
- b) 24 and 80
- c) 48 and 80
- d) 48 and 40

156. If 90% of A = 30% of B and B = x % of A, then the value of x is

- a) 900
- b) 800
- c) 400
- d) 300

157. A piece of cotton cloth 20 m long, shrinks by 0.5% after washing. The length of the cloth after washing is

- a) 19.5 m
- b) 19.9 m
- c) 19.95 m
- d) 19.05 m

158. If the average of a, b and c is M, then the average of a, b, c and M is

- a) $\frac{M}{2}$
- b) M
- c) 2M
- d) 4M

159. The average weight of 35 students in a class is 35 kg. If the teacher is also included, the average weight increases to 36 kg. The weight of the teacher is

- a) 71 kg
- b) 70 kg
- c) 55 kg
- d) 36 kg

160. If the mean of 6, 4, 7, *a* and 10 is 8, then the value of *a* ia

a) 9

- b) 11
- c) 13
- d) 15

161. The ratio between two numbers is 12:13. If each number is reduced by 20, the ratio becomes 2:3. Find the smaller number.

- a) 24
- b) 26
- c) 12
- d) 18

162. The fraction which bears the same ratio to

- $\frac{3}{7}$ that $\frac{1}{5}$ does to $\frac{7}{15}$ is
- a) $\frac{9}{49}$
- b) $\frac{2}{49}$
- c) $\frac{3}{35}$
- d) $\frac{7}{75}$

163. A bag contains one rupee, fifty paise, twenty five paise and ten paise coins in the proportion 1:3:5:7. If the total amount is Rs. 22.25, find the number of 25 paise coins.

- a) 40
- b) 35
- c) 30
- d) 25

164. A man mixes 6 kg of tea worth Rs.6 per kg and 4 kg of tea worth Rs.7 per kg and the mixture is sold at 10% profit. Find the selling price per kg of the mixture.

- a) Rs.7.04
- b) Rs.7.40
- c) Rs.6.05
- d) Rs.6.50

165. One thousand men in a fortress have provisions for 12 days. How long will the provision last if 200 more men join them?

- a) 14 days
- b) 12 days
- c) 10 days
- d) 8 days

166. Working with a project, David and Sam

together complete a piece of work in 6 days. If David works alone for 2 days and complete

 $\frac{1}{4}$ th of the work, in how many days Sam alone

complete the rest of the work?

- a) 24 days
- b) 18 days
- c) 12 days
- d) 6 days

167. Two friends take a piece of work for Rs.960. One alone could do it in 12 days, the other in 16 days. With the assistance of an expert they finish it in 4 days. How much remuneration the expert should get?

- a) Rs.240
- b) Rs.320
- c) Rs.400
- d) Rs.500

168. A pipe can fill a cistern in 12 minutes and another pipe in 15 minutes, but a third pipe can empty it in 6 minutes. The three pipes are kept open together. Find the time the cistern is emptied / filled?

- a) empty in 60 minutes
- b) empty in 27 minutes
- c) filled in 60 minutes
- d) filled in 27 minutes

169. A shopkeeper bought locks at the rate of 8 locks for Rs.34 and sold them at the rate of 12 locks for Rs.57. His gain or loss is

- a) Rs. 1 loss
- b) Rs. 1 gain
- c) Rs. 0.5 loss
- d) Rs. 0.5 gain

170. By selling cloth at Rs. 9 per metre, the shopkeeper loses 10%. At what price should, it be sold so as to gain 15%.

- a) Rs.10 per metre
- b)Rs.10.50 per metre
- c) Rs.11 per metre
- d) Rs.11.50 per metre

171. A shopkeeper allows 10% discount on his article. What price must be mark on an article, which cost him Rs. 750, to make a profit of 20%?

- a) Rs.800
- b) Rs.1000
- c) Rs.1200
- d) Rs.1400

172. The simple interest on a certain sum for 4 years at 7.5% per annum is Rs.95 less than the simple interest on the same sum for 3.5 years at 10% per annum. Find the sum.

- a) Rs.1800
- b) Rs. 1900
- c) Rs.2000
- d) Rs.2100

173. Find out the capital required to earn a monthly interest of Rs.600 at 6% simple interest.

- a) Rs.1 lakhs
- b) Rs.1.1 lakhs
- c) Rs.1.2 lakhs
- d) Rs.1.3 lakhs

174. How much will Rs.25000 amount to in 3 years, compounded yearly, if the rates for successive years are 6%, 8% and 10% respectively?

- a) Rs.34182
- b) Rs.321482
- c) Rs.31428
- d) Rs.31482

175. In how many years will Rs.2000 amount to Rs.2662 at 10% compound interest?

- a) 4 years
- b) 3 years
- c) 2 years
- d) 1 year

176. The present population of a town is 75000. The population increases by 10% in the first year and decreases by 10% in the second year. Find the population after 2 years.

- a) 74250
- b) 74500
- c) 77250
- d) 75000

177. How much money will be required to buy 275, Rs.60 shares at a discount of Rs.10?

- a) Rs. 19250
- b) Rs.16500
- c) Rs.13750
- d) Rs.2750

178. A motorcyclist travels for 10 hours, the first half at 21 km/hr and the other half at 24 km/hr. The total distance travelled is

- a) 350 km
- b) 324 km
- c) 224 km
- d) 225 km

179. Rajdhani Express train travelling at a uniform speed clears a platform 200 metres long in 10 seconds and passes a telegraph post in 6 seconds. The speed of the train is

- a) 150 km/hr
- b) 165 km/hr
- c) 180 km/hr
- d) 200 km/hr

180. A boat goes 12 km upstream in 48 minutes. The speed of the stream is 2 km/hr. The speed of the boat in still water is

- a) 15 km/hr
- b) 17 km/hr
- c) 24 km/hr
- d) 48 km/hr

181. A man walked 20 metres to cross a rectangular field diagonally. If the length of the field is 16 metres. What is the breadth of the field?

- a) 12 metres
- b) 18 metres
- c) 36 metres
- d) 6 metres

182. When circle whose				
then the dia	meter is n	umerically	equal to	
a) πr^2		b) 2		
c) 2πr		d) 4		

183. The diameter of the base and the height of a right circular cone are 14 m and 24 m respectively. Find the total surface area of the cone

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

a) 1408 m²

b) 1232 m²

c) 616 m²

d) 704 m²

184. The radius of a sphere is 9 cm. It is melted and drawn into a wire of diameter 2 mm. Find the length of the wire.

a) 92700 cm

b) 97200 cm

c) 79200 cm

d) 72900 cm

185. How many 3-digit number of distinct digits can be formed from the digits 2, 3, 7, 8, 9?

a) 25

b) 40

c) 60

d) 72

186. How many lines can be drawn through 5 points on a circle?

a) 10

b) 8

c) 5

d) 12

187. In a single throw of two dice, find the probability of obtaining 'a total of 8'.

a) 1

b) $\frac{5}{36}$

c) $\frac{1}{8}$

d) 0

188. From a well-shuffled deck of 52 cards, a card is drawn at random. Find the probability that the card drawn in 'either red or a king'.

a) $\frac{1}{4}$

b) $\frac{1}{52}$

c) $\frac{5}{13}$

d) $\frac{7}{13}$

189. An urn has 9 red balls, 7 white balls and 4 black balls. A ball is drawn from it. Find the probability that the ball drawn is 'not red'.

a)
$$\frac{11}{20}$$

b) $\frac{7}{20}$

c)
$$\frac{9}{20}$$

d) $\frac{4}{5}$

190. The value of log₂₇ 9 is

a) 2

b) 3

c)
$$\frac{2}{3}$$

d) $\frac{3}{2}$

191. The value of $\frac{\log_{10} 36}{\log_{10} 6}$ is

a) 6

b) log₁₀6

c) 2

d) log₁₀2

192. Which term of the arithmetic progression 64, 60, 56, is 0?

a) 64th

b) 31st

c) 17th

d) 1st

193. Find the sum of 24 terms of the arithmetic progression 1, 3, 5, 7,

a) 576

b) 567

c) 675

d) 756

194. How many two-digit numbers are divisible by 7?

a) 7

b) 13

c) 19

d) 21

195. The inclination of a line whose slope is

 $\frac{1}{\sqrt{3}}$ is

a) 0°

b) 60°

c) 45°

 $d) 30^{\circ}$

196. If $\sin A + \csc A = 2$, then the value of $\sin^2 A + \csc^2 A$ is

a) 4

b) 2

c) 1

d) -1

197. The value of sec 70° sin 20° + cosec 50° cos 40° is

a) -1

b) 0

c) 1

d) 2

198. A boy 1.6 m tall is 20 m away from a tower and observes the angle of elevation of the top of the tower to be 45°. Find the height of the tower.

- a) 21.6 m
- b) 26.1 m
- c) 12.6 m
- d) 16.2 m

199. The median of 22, 24, 25, 26, 26, 27, 27, 28, 29, 29, 31, 32, 32, 33, 35, 35, 36, 36 is

- a) 27
- b) 28
- c) 29
- d) 30

200. Find the mode from the following frequency distribution:

Number	8	9	10	11	12	13	14	15	16
Frequency	3	8	12	15	14	17	12	8	6

- a) 13
- b) 15
- c) 17
- d) 16
