

NAME :....

ROLL NO. :....

Time Allowed: Two Hours Maximum Marks: 200

TEST BOOKLET

TARA/SSC-HS/T1/03

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UN PRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.

2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A**, **B**, **C** OR **D** AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.

3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **Do NOT** write anything else on the Test Booklet.

4. This Test Booklet contains 200 items (Questions). Each item is printed in English and Hindi. Each item comprises FOUR responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose **ONLY ONE** response for each item.

5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See direction in the answers sheet.

6. All items carry equal marks.

7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.

8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.

9. Sheet for rough work are appended in the Test Booklet at the end.

10. Penalty for Wrong answers

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE

(i). There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-fourth (0.25)** of the marks assigned to that question will be deducted as penalty.

(ii). If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.

(iii). If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

2		www.tara	instit	ute.in	TARA/SSC-HS/T1/03
	PAR	Т-А	Dire	ections : (Q. 10-15)) Select the alternative which is
		AND REASONING	diffe	erent from other thr	ree.
Dir	rections : (0 1-9) <i>Sele</i>	ct the related letters/word/	10.	(a) 18/22	(b) 11/13
nun	nber/figure from the give	en alternatives–		(c) 12/14	(d) 17/19
1.	C3F6 : I9L12 : :	K 11 N 14 : ?	11.	(a) 121	(b) 169
	(a) O 15 R 18	(b) R 18 U 21		(c) 225	(d) 289
	(c) Q 17 T 20	(d) L 12 O 15	12.	(a) ZX	(b) TR
2.	BELL: AFKM : : DOOF	R:?		(c) OM	(d) IF
	(a) CNPQ	(b) ENPS	13.	(a) BEDC	(b) MPON
	(c) EPNS	(d) CPNS		(c) GIHI	(d) UXWV
3.	JLNP: OMKI:: SUWY	V : ?	14	(a) 1011	(b) 11001
	(a) MLKJ	(b) PLHD	14.	(a) 1011	(d) 11101
	(c) XVTR	(d) FGHI		(c) 1101	(d) 11101
4.	((Z *) 0 8 # (Z	·□ ·□ ·□ ·□ ·□ ·□ ·□ ·□ ·□ · · · · · ·	15.		
	s o ↑ ♦ = □ s □		Dire term ones	ections : (Q. 16-20) missing. Choose the s that will complete	A series is given with one/two correct alternative from the given the series.
	(a) (b)	(c) (d)	16.	C^3 , F^6 , I^9 , L^{12} , ??	
				(a) O^{13}	(b) O^{17}
5.	NLO: RPS:: VTW:?			(c) P^{15}	(d) O^{15}
	(a) XVY	(b) VTR	17	1a 4b 9c 16d 25	e 9
6	(c) TRP	(d) VUW	17.	(a) $3/f$	(h) 35f
6.	FLRX : EJOT :: CKTY			(a) $f^{2}6$	(0) 351 (d) 26f
	(a) $BIQV$	(b) DIPQ	10	(c) 150	(d) 501
7		(d) BIQU	10.	M_2, P_3, U_7, A_{13}	(1) (27
1.	(a) ZUTP	(b) ZVSP		(a) C26	(b) $C27$
	(a) $ZUTK$ (c) $ZWTO$	$\begin{array}{c} (0) Z \forall S \\ (d) Z W X \\ \end{array}$	10	(c) C28	(d) C25
			19.	XUROLI??	
8.	$\frac{C}{L}:\frac{24}{27}::\frac{E}{N}:?1$			(a) HG	(b) HE
	L 2/ N			(c) FC	(d) GE
	$(2) \frac{54}{54}$	(b) $\frac{56}{56}$	20.	31, 37, 49, 67, ?	
	(a) $\frac{1}{50}$	(b) $\frac{1}{45}$		(a) 87	(b) 91
	125	56		(c) 89	(d) 97
	(c) $\frac{125}{197}$	(d) $\frac{30}{54}$	21.	If roast is coded a	s PQYUR in a certain language
9	68 · 130 · · ? · 350			then how will be sl	oppy be coded in that language?
۶.	(a) 210	(b) 222		(a) MRNAQN	(b) NRMNQA
	(c) 240	(d) 282		(c) QNMRNA	(d) RANNMQ

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(a) PERT

(c) TENT

- 30. EX (.....) ACLE 22. If X is the brother of son of Y' son, how is X related to Y?
 - (a) Son (b) Brother
 - (c) Cousin (d) Grandson
- 23. Which of the following name will come last in a Telephone Directory ?
 - (a) Mahender (b) Mahendra
 - (c) Mohinder (d) Mohindra
- 24. Six persons A, B, C, D E and F are standing in a circle. B is between D and C. A is between E and C. F is to the right of D. Who is between A and F?
 - (b) C (a) B
 - (c) D (d) E
- 25. A man is facing towards west and turns through 25° clockwise, again 180° clockwise and then turns through 270° anticlockwise. In which direction is he facing now ?
 - (a) West (b) North-west
 - (c) South (d) South-west
- 26. Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son." Whose photograph was it ?
 - (a) His own (b) His son's
 - (c) His father's (d) None of these
- 27. If you are facing north-east and move 10 m forward, turn left and move 7.5 m, then you are-
 - (a) North of your initial position
 - (b) South of your initial position
 - (c) East of your initial position
 - (d) 12.5 m from your initial position
- 28. A man is facing south. He turns 135° in the anticlockwise direction and then 180° in the clockwise direction. Which direction is the facing now ?
 - (a) North-east (b) North-west
 - (c) South-east (d) South-west

Directions : (Q. 29 and 30) Insert the letters that complete the first word and begin the second.

- 29. TOR (.....) AIR
 - (a) CK (b) CH
 - (b) ESS (d) KS



(b) TANT

(d) ENCE

(a) H and 5 (b) F and 6 (d) 5 and H (c) H and 6

Directions : (Q. 33-34) In the following diagram the triangle represents children, the circle represents rural population, the rectangle school going population and the square boys.



On the basis of above diagram, answer the questions.

- 33. What does number 4 denote ?
 - (a) School going boys
 - (b) Children who are boys
 - (c) Non-rural children
 - (d) Non-rural school going boys
- 34. Which number represents rural school going boys?
 - (b) 3, 5 (a) 3
 - (d) 3, 4, 5, 7 (c) 3, 4



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- 35. If $12 \times 23 \times 34 = 357$ and $32 \times 43 \times 54 = 579$ then what would be the value of $40 \times 52 \times 63$?
 - (a) 468 (b) 369
 - (c) 479 (d) 359
- 36. A stands for addition, B for subtraction, C for division and D for multiplication, then what would be value of:

10A21C3D3B4

(a) 6	(b)	27
-------	-----	----

- (c) 29 (d) 39
- 37. From the given alternatives select the word which can be formed using the letters given in the word–

OPERATION

- (a) CAPTION (b) ROTATION
- (c) OPTION (d) NATION
- 38. Of the six members of a panel sitting in a row E is to the left of B, but on the right of A. F is on the right of B but is on the left of G who is to the left of C. Find the members sitting right in the middle–
 - (a) AE (b) BF
 - (c) G C (d) F G
- 39. Which one set of letters when sequentially placed at the gaps in the given letters series shall complete it ?

ba_b_aab_a_b

- (a) a b a a (b) a b b a
- (c) b a a b (d) b a b b

40. Arrange the following in a logical order-

1. Most2. Petrol3. Cars4. Without5. Will go

(a)	3, 5, 4, 2, 1	(b)	1, 2, 5, 3, 4
(c)	1, 3, 5, 4, 2	(d)	2, 5, 4, 1, 3

- 41. Rearrange the jumbled letters in meaningful words to identify the word which is not a colour.
 - (a) LTEOIV (b) ENGRAO
 - (c) PELRUP (d) REOWLF
- 42. If EXPANSION is written as 248537693 in a certain code, how would PENSION be written in that code ?
 - (a) 8236793 (b) 8237639
 - (c) 8237693 (d) 8233769



43. Which one of the following diagrams represents the relationship between Cows, Animals and Goats ?



Directions : (Q. 44-45) These consist of two statements followed by two conclusions numbered I and II. Take the two given statements to be true even if they seem absurd. Give your answer as –

- (a) If only I follows
- (b) If only II follows
- (c) If neither I nor II follows
- (d) If both I and II follow
- 44. Statements :

Some books are magazines.

Some magazines are novels.

Conclusions :

- I. Some books are novels.
- II. Some novels are books.
- 45. Statements :

All bulbs are birds.

Some birds are butterflies.

Conclusions :

- I. All butterflies are bulbs.
- II. Some birds are butterflies.

Directions : (Q. 46-47) These consist of five figures marked (1), (2), (3), (4) and (5) called the Problem Figures followed by four other Figures marked (A), (B), (C) and (D) called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

46. Problem Figures







4

47. **Problem Figures**



Answer Figures



- 48. Neither A is equal to B nor B is equal to C nor C is equal to D and D = 3A = B + C (all are positive), then which of the following are equal ?
 - (a) B and D (b) A and C
 - (c) A and D (d) B and C
- 49. Out of 60 students of a class, 35 study mathematics and 20 study mathematics and chemistry both. Then how many students study only chemistry ?
 - (a) 40 (b) 35
 - (c) 25 (d) 15
- 50. From the given answer figures, select the one in which the question figure is hidden/embedded-



PART - B

GENERAL AWARENESS

- 51. 'Jhooming' agriculture of North-East India is called 'Ladang' in Malaysia and 'Masole' in the valley of Zaire. Then, which of the following is called Jhooming agriculture ?
 - (a) Shifting Agriculture
 - (b) Mixed Agriculture
 - (c) Transplanting Agriculture
 - (d) Livelihood Agriculture

- 52. Which of the following is the dominant probability of formation of the fog ?
 - (a) Dry cool current blows over warm current
 - (b) Warm air with moisture blows over cool current
 - (c) Dry and cool air blows over cool current
 - (d) Warm current with moisture blows over warm current
- 53. In which region does rainfall occur throughout the year ?
 - (a) Mediterranean (b) Equatorial
 - (c) Tropical (d) Temperate
- 54. Name the food crop which gives highest output in India-
 - (a) Wheat (b) Jowar
 - (c) Maize (d) Rice
- 55. The Zoji-La pass connects-
 - (a) Srinagar and Leh
 - (b) Arunachal Pradesh and Tibet
 - (c) Chamba and Spiti
 - (d) Kalimpong and Lhasa
- 56. In West Bengal, Raniganj is associated with-
 - (a) Coalfields (b) Iron ore
 - (c) Manganese ore (d) Copper
- 57. Match the following-

Column I

- (a) Mahatma Gandhi
- (b) Ram Manohar Lohiya
- (c) Dr. Rajendra Prasad
- (d) Maulana Abul Kalam

Column II

- 1. India divided
- 2. India wins Freedom
- 3. Hind Swaraj
- 4. The Wheels of History
 - (a) (b) (c) (d)
- (a) 1 2 4 3
- (b) 2 3 1 4
- (c) 3 1 2 4
- (d) 3 4 1 2



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58.	Who of the following did not win Gold medal in	67.	Indirect taxes by nature	e are-
	commonwealth boxing Championship in Delhi in		(a) Degressive	(b) Regressive
	March 2010 ?		(c) Progressive	(d) Proportional
	(a) Suranjoy Singh (b) Harpreet Singh	68.	Which one of the follow	ving is an example of optional
50	(c) Jai Bhagwan (d) Amandeep singh		money ?	
59.	Who wrote the 'Communist manifesto'?		(a) Currency note	(b) Coins
	(a) Lenin (b) Karl Marx		(c) Cheque	(d) Bond
(0	(c) Stain (d) None of the above	69.	Which of the following	diseases spreads due to virus?
60.	(a) Warran's Dighta (b) Child Education		(a) Diphtheria	(b) Influenza
	(a) Women's Rights (b) Child Education		(c) Typhoid	(d) Cholera
61	(c) Christian Mission (d) Mission Hospitals	70	Select the macro plant	nutrients-
01.	representatives each in Lok Sabha :	,	I Phosphorus	II Iron
	(a) Manipur. Meghalava		III Carbon	IV Nitrogen
	(b) Himachal Pradesh. Jammu and Kashmir		(a) Land W	
	(c) Arunachal Pradesh, Tripura			(0) 1, 11, 111 (1) (1) (1) (1) (1) (1) (1) (1) (1)
	(d) Mizoram, Nagaland		(c) 1, 111, 1V	(d) All of the above
62.	'Boston Tea Party' is associated with-	71.	A car engine coolant pe	rtorms which of the following
	(a) French Revolution		1 Paisas the bailing	noint of water
	(b) Russian Revolution		2 Lower the free in	
	(c) American Independence		2. Lowers the freezin	ig point of water
	(d) Independence of Egypt		3. Reduces rusting te	endency
63.	Which of the following is a direct tax ?		4. Lubricates the wat	er pump
	(a) Excise (b) Sales Tax		(a) 1, 2 3	(b) 1, 3, 4
	(c) Income tax (d) None of the above		(c) 1 & 3 only	(d) 1, 2, 3, 4
64.	Who expounded "The Theory of Drain" ?	72.	The chief poisonous sna	akes in India are –
	(a) Tilak (b) Dadabhai Nauroji		(a) See snake, pit vipe	er, krait, cobra, rat-snake
	(c) Gokhale (d) Govinda Ranade		(b) Russels viper, pit v	viper, cobra, krait, sea-snake
65.	The last Governor-General of the East India Company		(c) Python, pit viper, r	russel's viper, cobra, krait
	and the first Viceroy under the crown was-		(d) Cobra, krait, wolf-	-snake, python
	(a) Lord Elgin	73.	Which is not an insectiv	vorous plant ?
	(b) Lord Canning		(a) Pitcher plant	(b) Bladderwort
	(c) Lord Warren Hastings		(c) Butterwort	(d) Hornwort
	(d) Lord Dalhousie	74.	Tungska Fireball explos	sion took place in-
66.	A rising Per Capita Income will indicate a better welfare		(a) 1908	(b) 1908
	(a) Unchanged Income distribution overall		(c) 1945	(d) None of these
	(a) Changed Income distribution in favour of rich	75	Directions of the current	nts of which of the following
	(c) Changed Income distribution in favour of poor	, 0.	oceans change twice an	inually ?
	(d) Changed Income distribution in favour of		(a) Pacific ocean	(b) Atlantic ocean
	Industrial Labour		(c) Indian ocean	(d) Arctic ocean
			()	(-)



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76.	Which of the following of polluted by industrial w	diseases is caused by the fishes vastage mixed with mercury ?	84.	In v as "	which year the "Hou Lok Sabha"?	ise of	the People" was named
	(a) Bronchitis	(b) Bright disease		(a)	1954	(b)	1964
	(c) Minimeta disease	(d) Hashimota disease		(c)	1974	(d)	1984
77.	Which of the following mangrove forests ?	statements is incorrect about	85.	A b	ody absorbs heat m	ost if	it is-
	(a) Wood of sundari tro	ees is used as fuel and to make		(a) (c)	White and rough	(b) (d)	White and smooth
	(b) During high tides,be submerged in sa	roots of sundari trees should alty water	86.	Wh the	ich one of the follow purview of the Pres	ring aj ident	ppointments is not within of India?
	(c) Sundari trees grow	in lower littoral area		(a)	Chief Justice of In	dia	
	(d) Wood of sundari tr	ees is ideal for pulp making		(b)	Chairman, Finance	e Con	nmission
78.	Who among the following	ng biologists used the statement		(c)	Chief of Army Sta	ff	
	'Survival of the fittest'	for the first time in his book,		(d)	Speaker of Lok Sa	bha	
	'Principles of Biology' ?)	87.	Wh	ich of the following	reliev	ves pain ?
	(a) Charles Darwin	(b) Jagdish Chandra Bose		(a)	Antibiotics	(b)	Analgesic
	(c) Herbert Spencer	(d) Richard Licke		(c)	Antipyretic	(d)	Disinfectant
79.	What age-limit has been National Children-right	n fixed for child-artists by the s Protection Commission ?	88.	Jiva	ika, mentioned in the	early	Buddhist literature was-
	(a) 14 years	(b) 10 years		(a)	Manahant	(U) (d)	Dhusisian
	(c) 18 years	(d) 12 years	20	(C) V	Merchant	(a)	
80.	The Parliament and the C	Constitution are the instruments	89.	Kat	E S Artnasnastra	is a g	great treatise on-
	of–			(a)	Economic Policies	(b)	Statecraft
	(a) Legal Justice	(b) Political Justice		(c)	Interstate Relations	s (d)	Ethics
	(c) Economic Justice	(d) Social Justice	90.	Hea	ivy water project, T	alcher	r and Paradeep fertilizer
81.	The Council of Minister	s is collectively responsible to			Origan	(h)	Ji — Tamil Nadu
	(a) President	(b) Prime Minister		(a)	Andhan Dandach	(U)	Tallill Inauu Kanala
	(a) Tresident (c) Lok Sabha	(d) Raiva Sabha	01	(c)	Andnra Pradesn	(a)	Keraia
82	Under single transferabl	le vote system each voter can	91.	w n bou	ndary with Banglad	ig do esh ?	es not nave a common
02.	(a) Indicate only two	nreferences		(a)	Meghalaya	0.511 .	
	(b) Indicate only one i	preference		(u) (h)	Mizoram		
	(c) Indicate one prefer	ence less than the seats to be		(\mathbf{c})	Arunachal Pradesh		
	filled up			(d)	Tripura	L	
	(d) Indicate as many candidates to be el	y preferences as there are ected	92.	Nar Poli	ne of the author of t itics. Economics and	he bo d Gov	ok "The future of India : vernment"–
83.	'Zero Hour' in the wor	king of he Indian Parliament		(a)	Bimal Jalan	(h)	Deepak Chopra
	means-			(c)	Anurag Mathur	(d)	Amitay Ghosh
	(a) Hour before the Qu	uestion Hour	93	Shi	vaii's war strateou u	ed a	painst the Mughale was_
	(b) The first Hour of t	he Session	<i>JJ</i> .	(a)	alert army	(h)	nolitical supremacy
	(c) Interval between Q	uestion Hour and next Agenda		(a)	large army	(U) (A)	guarilla warfara
	(d) When Privilege Me	otion is accepted		(\mathbf{c})	large army	(u)	guernia warlare



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94.	Pack animal of Peru is -	_	100 11 01 3 12	<u>1</u> .
	(a) Camel	(b) Yak	103. Value of $1\frac{1}{5}$ $1\frac{1}{7}$	$1\frac{1}{4}$ is:
	(c) Lama	(d) Ibex	18	1
95.	Who built Panama Cana	1?	(a) $5\frac{10}{70}$	(b) $6\frac{1}{7}$
	(a) Fredinend Megallar	n(b) Ferdinend-de-lacepse	2	10
	(c) Lee Korbusear	(d) Edward Lutins	(c) $3\frac{2}{9}$	(d) $4\frac{19}{140}$
96.	Who among the following	ing is associated with Indiar	ı	
	civilization?		104. Value of $\sqrt{\sqrt{3969}}$	$\sqrt{3364}$ is:
	(a) Sir Besant Smith		(a) 169	(b) 121
	(b) D. D. Goswami		(c) $1/1$	(d) 11
	(c) Sir Alexandar Wing	sham	(0) 141	
	(d) Martemer Camphel	1	105. What will come in j	place of question mark?
97.	Who was known as 'Lit	tle Corporal'?	$\sqrt{729}$ 32 45 ×	? = 10502.4
	(a) Adolf Hitler	(b) Napoleon Bonaparte		
	(c) William Gladstone	(d) Sunil Gavaskar	(a) 383	(b) 476
98.	Arrange in proper chror	nological order-	(c) 547	(d) 651
	1. Harshavardhan		106. The area of a squa	re is 196 sq. cms. whose side is
	2. Samudragupta		half the radius of a	circle. The circumference of the
	3. Chandragupta Mau	rya	of the rectangle is 7	712 cm What is the length of the
	4. Rajendra Chola		rectangle ?	12 oni. What is the length of the
	(a) 3, 1, 2, 4	(b) 3, 2, 1, 4	(a) 196 cm	(b) 186 cm
	(c) 2, 3, 4, 1	(d) 2, 3, 1, 4	(c) 180 cm	(d) 190 cm
99.	Which country was th	ie runner up in World Cup March 2010 2	107. What will come in t	place of question mark?
	Hockey at New Deini in	(h) Company		
	(a) Notherlanda	(d) England	35^2 , $(38)^2$? 5	
100	(c) Neurerianus	(u) England	(a) 503	(b) 543 6
100.	following rivers ?	I the Dank of which of the	(c) 567.8	(d) 533.8
	(a) Ganga	(b) Ravi	(0) 507.0	(d) 555.0
	(c) Yamuna	(d) Indus	108. Value of $18.92^{2} - 100$	√121 is:
			(a) 386.9466	(b) 346.9664
		1-0	(c) 366.9646	(d) 333.6964
	NUMERICAL	<u>APTITUDE</u>	109. Value of 1000^{12} 1	0 ³⁰ is:
101.	Value of $\frac{5.4}{10} = \frac{3}{10}$	$\frac{2}{1}$ is:	(a) 1000^2	(b) 10
	18 5 6 3	,	(c) 100^2	(d) 100
	(a) 2	(b) 4	(1)	
	(c) 6	(d) 8	110. If $\sin \theta - \cos \theta = \frac{1}{12}$	$\frac{1}{2}$ and $0 < \theta < 90^{\circ}$, then the value
102.	The simple interest ac	crued on a sum of certain	1	3
	principal is ₹ 1,200 in	tour years at the rate of 8		
	p.c.p.a. What would be on thrice of that princip	e the simple interest accrued	$\frac{1}{2}$ (a) $\frac{17}{2}$	(b) $\frac{13}{1}$
	vears ?	ai at the rate of 0 p.e.p.a III 3	(1) 13	17
	(a) ₹ 2.025	(b) ₹ 3.025	1	1
	(c) ₹ 2,250	(d) ₹ 2,150	(c) $\frac{1}{13}$	(d) $\frac{17}{17}$



T 11

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111.	If $\tan 15^\circ = 2 - \sqrt{3}$, the	value of	119.	An aeroplan and 500 km	ne travels dis	tanco f 50	e of 2500 km, 1200 km 0 km/hour, 400 km/hour
	$\tan 15^\circ \cot 75^\circ + \tan 7$	5° cot 15° is		and 250 km	hour respecti	vely	Find the average speed.
	(a) 14	(b) 12		(a) 420 kr	n/hour	(b)	450 km/hour
	(c) 10	(d) 8		(c) 480 kr	n/hour	(d)	400 km/hour
112.	If θ be acute angle and	$\cos \theta = \frac{15}{17}$, then the value of	120.	A number, exceeds the	the sum of v ar third part b	vhos oy 28	e fourth and fifth parts 3 is–
	$\cot (90^\circ - \theta)$ is			(a) 120		(b)	240
	с Г			(c) 220		(d)	160
	(a) $\frac{2\sqrt{8}}{15}$	(b) $\frac{8}{15}$	121.	Area of a ro its sides are	ectangular plo e in the ratio of	ot it of 3	2400 square metres and : 2. Its perimeter is-
	./2	8.12		(a) 60 m		(b)	40 m
	(c) $\frac{\sqrt{2}}{17}$	(d) $\frac{8\sqrt{2}}{17}$		(c) 100 m	Ļ	(d)	200 m
113.	If θ be acute and $\tan \theta + \tan^5 \theta + \cot^{10} \theta$ is (a) 1 (c) 3	 + cot θ = 2, then the value of (b) 2 (d) 4 	122.	A and B co and 15 days and B for 4 portion of v three take t	ompletes sepa s, respectively 5 days alone. vork alone in together to co	ratel y. A The 8 day omple	y a piece of work in 10 worked for 4 days alone en C completed the rest ys. How long will all the ete that work ?
114.	If $\tan (2\theta + 45^\circ) = \cot$	3θ where $(2\theta + 45^\circ)$ and 3θ		(a) 4 days		(b)	5 days
	are acute angles, then the	he value of θ is		(c) 6 days		(d)	None of these
	(a) 5°	(b) 9°	123.	Ratio of the	e present age (of A :	and that of B is $4:5$ and
	(c) 12°	(d) 15°		after 5 year	s it will be 5	: 6.]	Then what is present age
115.	A man is four times as	old as his son. Twenty years		of A?			
	later he will be just twic	e as old as his son. Find their		(a) 10 yrs		(b)	20 yrs
	(a) 40 10 years	(b) 20 10 years		(c) 25 yrs		(d)	40 yrs
	(a) $40-10$ years	(d) $30-10$ years	124.	The factors	of $8x^2 - 18x$	(+9) _
116	(c) $30-20$ years In a video library $1/4$ vi	(d) $30-20$ years decs are of movies $2/3$ of the		(a) $(4x-3)^{-3}$	3)(2x+3)	(b)	(8x-1)(x-9)
110.	remaining are of songs religious. How many of	and the remaining 200 are them are video songs?		(c) $(8x-3)$	(x-3)	(d)	(2x-3)(4x-3)
	(a) 400	(b) 600	125.	A contracto	or employs a	labo	ourer at ₹ 75 per day as
	(c) 800	(d) 1200		remuneration	on, alongwith	1 the	e condition that if he is
117.	A class of 60 has 25% g	girls. If 20% of boys and 20%		absent, he v	vill be fined ration of abs	: 15 ent c	per day and will not get day/days After 20 days
	of girls attended a picr class attended the picni	nic, what % children of that c?		the contract many days h	tor paid ₹ 11 nad been the la	40 to bour	o the labourer, for how rer absent from his work?
	(a) 20	(b) 22.5		(a) 3		(b)	5
	(c) 25	(d) 40		(c) 4		(d)	2
118.	Two cars travel in the s	ame direction at 40 km/hour	126.	At 3 : 00 a	im the temper	ature	e was 13 degrees below
	and 50 km/hour respect these are alongside, will	ively. How many hours after l they be 18 km apart ?		zero. By no the average	oon it has rise hourly increa	en to se in	o 32 degrees. What was temperature, in degrees?
	(a) 0.25 hour	(b) 2.5 hour		(a) (19/9)		(b)	5

(d) 1.8 hour (c) 0.4 hour

(c) (19/6) (d) 7.5



10)		www.tara	institute	.in		TARA	4/SSC-HS/I	Г1/03
127.	A person went to	the market	and purchased a pen for	135. Wł so t	at minimum hat the sum c	amount an be di	should b stributed	e added to ₹ 1 equally among	49250 g 4744
	₹ 15. If he is still	left with	$\frac{2}{5}$ th of his total money,	pec	ple ? ₹ 2448		(h) ₹2	1 5 5	2
	find the total amon	unt of mone	ey he had initially-	(a)	x 2440 ₹ 2568		$(0) \times 2$	no of those	
	(a) ₹40	(b)	₹ 37.50	(C)	X 2300	20 and	(u) NO	heen stand in	a fart
	(c) ₹55	(d)	None of these	Foc Foc	dgrains for 2	be con	isumed in	n 16 weeks, i	f each
128.	Find the distance min. at a speed of	covered by 3.5 km/h-	y a man walking for 12	sole wil	dier is given l last for 24 v	45 gm j weeks if	per day. T each sol	The same food dier is given 3	lgrains 3 gms
	(a) 0.7 km	(b)	7 km	per	day and sor	ne soldi	ers are r	emoved. How	many
	(c) 1.7 km	(d)	7.7 km	SOI	diers should	be remo	ved ?	2	
129.	Find the greatest r divisible by 463–	number of a	5 digits which is exactly	(a) (c)	44 20		(b) 160 (d) 52)	
	(a) 99082	(b)	99545	105 1		1		. 1	1 0
	(c) 99568	(d)	99999	137. A 1	nan spends	-rd of	his incor	ne on food, $-\frac{4}{4}$	-th of
130.	What percentage	s equivaler	nt to $\frac{3}{5}$?	the	rest on house	e rent ar	$\frac{1}{5}$ th o	of the rest on c	lothes.
	() 150(0.50(Не	still has ₹ 1,	760 left	with hin	n. Find his inc	ome.
	(a) 15%	(b)	85%	(a)	₹ 8800		(b) ₹6	5160	
	(c) 65%	(d)	60%	(c)	₹ 4400		(d) ₹2	640	
131.	During one year th	ne populatio	on of a locality increased	138 Fin	d the value o	f –	(-)		
	by 5% but during	the next ye	ar it decreased by 5%. If	852	2019 ± 106	78 - 59	9 1 5 7		
	7 980 find the por	n at the end	the beginning of the first	(2)	899 8749	.70 02	(b) 890	9 8429	
	vear_	pulation at	the beginning of the first	(a)	800 2840		(d) 809	8 8740	
	(a) 7890	(b)	8900	(C) D:-	099.2049	0 1 4 2)	(u) 898	1.0249	. 4abla
	(a) 7890	(J)	8000	DII	to answer t	9-143) ho auos	: Sluay l tions tha	ine joiiowing t follow	ladie
100	(c) 9800	(a)		Nu	mber of Sol	diore (ii	n thousa	nds) retired (luring
132.	What quantity of litres of 50% acid	water shou	30% acidic liquid ?	six	different ye	ears (in	n thousa	nusj retireu e	iui ing
	(a) 4.5 litres	(b)	3 litres			ACAI	DEMICS		
	(c) 6 litres	(d)	7.5 litres	Years	Air force	Army	Navy C	Coast-Guard	BSF
133.	Find the value of	the missin	g figure in the question	2004	2.5	5.2	1.6	0.6	4.2
	given below –			2005	3.7	6.1	1.9	1.8	5.1
	6:?::5:35			2006	2.9	6.9	2.4	1.2	3.7
	(a) 30	(b)	36	2007	5.4	7.2	2.8	2.7	5.2
	(c) 42	(d)	48	2008	4.2	6.4	1.5	5.4	4.4
134.	What should come	e in place o	of the question marks (?)	2009	5.6	8.4	3.5	3.6	6.3
	in the following e	xpression ?	•	139. Wł	at is the diff	ference	between	the total num	ber of
	$\frac{28}{?} = \frac{?}{112}$			Sol and Ari	diers retired 2008 and t ny in the yea	from Ai he num r 2009	rforce in ber of S ?	the year 2006 oldiers retired	, 2007 l from
	(a) 70	(b)	56	(a)	4.700		(b) 41	00	
	(c) 48	(d)	64	(c)	3,600		(d) 36,	,000	



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140. Total number of Soldiers retired from BSF in the years

2005 and 2006 together was **approximately** what percent of the total number of Soldiers retired from Navy over all the years together ?

- (a) 70 (b) 54
- (c) 64 (d) 75
- 141. What was the average number of Soldiers retired together in the year 2007 ?
 - (a) 4,660 (b) 46,600
 - (c) 23,300 (d) 2,330
- 142. In which force the number of the soldiers retired continuously increased from the year 2004 to 2009 ?
 - (a) Air force (b) Army & BSF only
 - (c) Coast Guard (d) None of these
- 143. What was the respective ratio between the number of soldiers retired from Army in the year 2004 and number of soldiers retired from Coast guard in the year 2006 ?
 - (a) 13:4 (b) 13:6
 - (c) 3:26 (d) 13:3
- 144. From four corners of a square sheet of side 4 cm, four pieces, each in the shape of arc of a circle with radius 2 cm, are cut out. The area of the remaining portion is :
 - (a) (8π) sq. cm (b) $(16 4\pi)$ sq. cm
 - (c) $(16 8\pi)$ sq. cm (d) $(4 2\pi)$ sq. cm
- 145. ABCD is a cyclic parallelogram. The angle $\angle B$ is equal to :

(a) 30°	(b)	60°
(c) 45°	(d)	90°

- 146. A straight line parallel to the base BC of the triangle ABC intersects AB and AC at the points D and E respectively. If the area of the \triangle ABE be 36 sq. cm, then the area of the \triangle ACD is
 - (a) 18 sq. cm (b) 36 sq. cm
 - (c) 18 cm (d) 36 cm
- 147. The point D and E ae taken on the sides AB and AC of

 $\triangle ABC$ such that $AD = \frac{1}{3}AB$, $AE = \frac{1}{3}AC$. If the length

of BC is 15 cm, then the length of DE is

- (a) 10 cm (b) 8 cm
- (c) 6 cm (d) 5 cm
- 148. A car covers a distance of 540 km in 9 hours. Speed of a train is **double** the speed of the car. Two-third the speed of the train is equal to the speed of a bike. How much distance will the bike cover in 5 hours ?
 - (a) 450 km (b) 360 km
 - (c) 400 km (d) 500 km
- 149. The ratio between the angles of a quadrilateral is3 : 4 : 6 : 5. Two-third the largest angle of the quadrilateral is equal to the smaller angle of a parallelogram. What is the value of adjacent angle of the parallelogram ?
 - (a) 120° (b) 110°
 - (c) 100° (d) 130°
- 150. What profit/loss percent did Ravi earn if he purchased an item of ₹ 5,600/- and sold it at three-fourth of its cost price ?
 - (a) Loss of 20 percent
 - (b) Gain of 25 percent
 - (c) Neither gain nor loss
 - (d) Loss of 15 percent

PART - D ENLGLISH COMPREHENSION

- **Directions:** In questions no. 151 to 155, some of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the rectangle corresponding to the appropriate letter (A, B, C). If a sentence is free from errors, blacken the rectangle corresponding to (d) in the Answer Sheet.
- 151. (a) Neeraj said
 - (b) that he would rather fail than copying
 - (c) in the examination
 - (d) No error.

- 152. (a) You will come
 - (b) to my party tomorrow,
 - (c) isn't it?
 - (d) No error.
- 153. (a) As much as I admire him for his sterling qualities.
 - (b) I cannot excuse him for
 - (c) being unfair to his friends.
 - (d) No error.



11

12		www.tara	institute.in	TARA/SSC-HS/T1/03
154. (a) All the	furnitures have been		162. EFFICACY	
(b) sent to	the new house		(a) delicacy	(b) ruthlessness
(c) located	l in a village.		(c) efficiency	(d) solemnity
(d) No err	or.		163. MAGNATE	
155. (a) Thoug	h senior in age,		(a) tycoon	(b) senior executive
(b) his fat	her is junior than		(c) non-magnetic	(d) symbolic
(c) my fat	her in service.		164. FACET	
(d) No err	or.		(a) sweet	(b) tap
Directions: In a	questions no. 156 to 1	60. sentences are	(c) deceit	(d) aspect
given with	blanks to the filled in w	ith an appropriate	165. PERNICIOUS	(1)
word. Four	alternatives are sugge	sted for each	(a) deadly	(b) curious
question. C	Choose the correct alte	rnative out of the	(c) gorgeous	(d) expensive
four and in	idicate it by blackenin	g the appropriate	alternatives choose	the word opposite in meaning to
rectangle in	n the Answer Sheet.	1 1 0 1 4	the given word and n	nark it in the Answer Sheet.
156. The most of was his	bvious reason for his	lack of popularity	166. INGENUOUS	
(a) relucts	to find fault with of	nonition	(a) cunning	(b) stupid
(c) superio	ority (d) pron	ensity	(c) naive	(d) young
157 Although I	he never learnt to read	d his exceptional	167. EGREGIOUS	-
memory an	d enquiring mind even	tually made him a	(a) notorious	(b) splendid
very r	nan.	5	(c) abortive	(d) maturity
(a) benevo	olent (b) dedic	cated	168. DISSIPATE	
(c) pragm	atic (d)	charismatic	(a) waste	(b) conserve
158. The final el	ectoral rolls have been	intensively revised	(c) organise	(d) unite
through ho	use-to-house		169. STURDY	
(a) docum	entation (b) categ	gorisation	(a) important	(b) rich
(c) enume	ration (d) inves	stigation	(C) WEAK	(u) vigorous
159. The Chairr	nan will come here at	5 p.m. to a	(a) irreligious	(b) unethical
lecture.	(h) mag	le .	(a) irreverent	(d) open
(a) attain	(d) deliv	K.	Directions: In questions r	(a) open no 171 to 175 four alternatives
160 Mountained	(u) deliver	voung climbers the	are given for the med	ning of the given Idiom/phrase.
technical kr	10 lowledge which has beer	n accumulated over	Choose the alternativ	e which best expresses the mean-
the years.	C		ing of the Indian/Pl	hrase and mark in the Answer
(a) impart	(b) indic	ate	Sheet.	
(c) apply	(d) help		1/1. In the blues	
Directions: In g	questions no. 161 to 16	55, out of the four	(a) Being colouriui	low spirited
alternative.	s, choose the one which	best expresses the	(c) Behave like a lor	rd
meaning of Sheet	ine given word and ma	rk it in the Answer	(d) Cheerful and ha	nnv
161. GERMINA	ГЕ		172 See eve to eve	44 7
(a) decay	(b) breed	đ	(a) State at each oth	ner

- (c) produce (d) sprout
- (b) Agree

5

- (c) Depend on
- (d) Make an effort
- 173. Talk shop
 - (a) Talk about one's profession
 - (b) Talk about shopping
 - (c) Ridicule
 - (d) Treat lightly
- 174. Bad blood
 - (a) Infected blood (b) Ill-feeling
 - (c) Unfaithful (d) Suspicion
- 175. Wear one's heart on one's sleeve
 - (a) Lure passionately
 - (b) Do the right thing
 - (c) Show one's feelings
 - (d) Be intimate
- Directions: In questions no. 176 to 180, a sentence or underlined part thereof is given which may need improvement. Alternatives are given at (a), (b) and (c) below, which may be a better option. In case no improvement is needed, your answer is (d). Darken the appropriate rectangle in the Answer Sheet.
- 176. Other countries <u>have eradicated</u> this disease ten years ago.
 - (a) eradicated (b) had eradicated
 - (c) did eradicated (d) No improvement
- 177. Why the dinosaurs died out is not known.
 - (a) it is not known
 - (b) the reason is not known
 - (c) that is not known
 - (d) No improvement
- 178. His father won't be able to leave for Varnasi <u>until they</u> <u>have arrived.</u>
 - (a) until they arrive
 - (b) until they will have arrived
 - (c) until they will arrive
 - (d) No improvement
- 179. I will not go to school, if it shall rain tomorrow.
 - (a) it would rain tomorrow
 - (b) it will rain tomorrow
 - (c) it rains tomorrow
 - (d) No improvement

- 180. He has not and can never be in the good books of his
 - employer because he lacks honesty.
 - (a) has not and cannot be
 - (b) has not and can never been
 - (c) has not been and can never be
 - (d) No improvement
 - **Directions:** In questions no. 181 to 185, out of four alternatives, choose the one which can be substituted, for the given words/sentence and indicate it by blackening the appropriate rectangle in the Answer Sheet.
 - 181. The right to vote
 - (a) ballot (b) electorate
 - (c) franchise (d) graffiti
 - 182. A person who believes he is always ill
 - (a) maverick (b) metaphysics
 - (c) neophyte (d) hypochondriac
 - 183. One who assails traditional beliefs
 - (a) critic (b) atheist
 - (c) anthropologist (d) iconoclast
 - 184. A person who chooses to live in a foreign country
 - (a) traveller (b) explorer
 - (c) immigrant (d) refugee
 - 185. An official inquiry into the cause of an unnatural death
 - (a) inquest (b) investigation
 - (c) post-mortem (d) instigation
 - **Directions:** In question no. 186 to 190, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.
 - 186. (a) Asspersion (b) Voluptuous
 - (c) Voguei (d) Equestrain
 - 187. (a) Hindrance (b) Hinderrance
 - (c) Hindrence (d) Hinderence
 - 188. (a) Parallelled (b) Parralleled
 - (d) Paraleled
 - 189. (a) Lckadaisicle
 - (c) Lackadisical (d) Lackadaisical
 - 190. (a) Inoculation

(c) Inocculation

(c) Paralleled

(b) Innoculation(d) Inocullation

(b) Lackdaisical

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14 ww	w.tarainstitute.in	ТА	RA/SSC-HS/T1/03
Directions: In the following passage (question no.	191 to 193. (a) a	(b)	an
200), some of the words have been left out	<i>First</i> (c) the	ie (d)	which
read the passage over and try to understand	what is 194. (a) ha	ate (b)	anticipate
about. Then fill in the blanks with the help alternatives given Mark your approximited	of the (c) red	ecommend	
Sheet	(d) lik	ke	
PASSAGE(O, Nos.191-200)	195. (a) pu	urchases (b)	prizes
In the large shops(191) for Diwali are	begun (c) pr	resents (d)	presentation
(192) or six weeks before(193) actu	al day. 196. (a) ma	any (b)	more
Shop owners(194) Diwali because l	ots of (c) fe	ew (d)	less
\dots (195) are given, which means \dots (196)	goods 197. (a) at	(b)	in
vear The main shops (199) decorated	(c) on (c) on	n (d)	for
weeks before(200) to tempt people to buy	things. 198. (a) an	ny (b)	a
191. (a) preparations (b) shopping	(c) the	ie (d)	this
(c) purchases (d) preparing	199. (a) we	rere (b)	are
192. (a) two (b) five	(c) ha	ave been (d)	will be
(c) few (d) couple	200. (a) oc	ccasion (b)	festival
	(c) fes	estivities (d)	Diwali

