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REASONING

1.	Select	the	related	letters/word/number	from	the	given
alte	ernatives						

BDGH: OQTU:: FHKL:?

(A) JKLM (B) BCDE (C) SUXY (D) WXYZ

2. A rat runs 20' towards East and turns to right runs 10' and turns to right runs 9' and again turns to left runs 5' and then turns to left runs 12' and finally turns to left and runs 6'. Now, which direction is the rat facing?

(A) East

(B) West

(C) North

(D) South

3. Which one set of letters, when sequentially placed at the gaps in the given letter series shall complete it?

mnonopqopqrs _ _ _ _ _

(A) mnopq (B) ogrst (C) pgrst (D) qrstu

4. Select the one which is different from the other three responses.

(A) 4, 12(C) 14, 24

(B) 8, 16(D) 6, 14

5. Select the one which is different from the other three responses.

(A) BEH (C) DGJ

(B) CFI (D) EHL

6. Select the related word from the given alternatives.

Hirakund: Mahanadi:: Tehri Dam:?

(A) Damodar

(B) Bhagirathi

(C) Yamuna

(D) Son

7. Select the related numbers from the given alternatives: 121:12::

25:?

(A) 5

(B)6

(C) 7(D) 8

8. Find out the odd number from the given alternatives.

(A) 4246

(B) 8314

(C) 9546

(D) 5306

9. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

5, 7.5, 12.5, 22.5, ?

(A) 42.5

(B) 42

(C) 44

(D) 43.5

10. If HOUSE is written as FQSUC, then how can CHAIR be written in that code?

(A) DIBJS

(B) SBJID

(C) SHBGD

(D) AJYKP

11. Two statements are given below, followed by four conclusions I, II, III and IV. You have to consider the statements to be true 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. Indicate your answer.

Statements:

All students in my class are bright.

Manish is not bright.

Conclusions:

I. Some students are not bright.

II. Manish must work hard.

III. Non-bright ones are not students.

IV. Manish is not a student of my class.

(A) Only I

(B) II and III

(C) III and IV

(D) Only IV

12. Which one of the following responses would be a meaningful order of the given words?

1. Hut

2. House

3. Palace

4. Bungalow

(A) 4, 3, 1, 2

(B) 2, 1, 4, 3

(C) 1, 4, 3, 2

(D) 1, 2, 4, 3

13. A series is given, with one term/number missing. Choose the correct alternative from the given ones that will complete the series.

0, 2, 6, 12, 20, ?, 42

(A) 34

(B) 30

(C) 32

(D) 28

14. Pointing towards a man a woman said, "his brother's father is the only son of my grandfather" how is the women related to the man?

(A) Aunt

(B) Sister

(C) Daughter

(D) Mother

15. Which interchange of signs will make the following equation

 $30 - 6 \div 4 + 2 \times 3 = 7$

 $(A) + and \times$

(B) – and +

(C) – and \div

(D) + and -

16. Arrange the following words as per order in the dictionary

1. Tortoise, 2. Torrid, 3. Torso, 4. Torque, 5. Tortuous (A) 4, 2, 3, 1, 5(B) 3, 2, 4, 1, 5

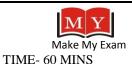
(C) 2, 3, 1, 5, 4

(D) 4, 3, 2, 1, 5

17. In the question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'U' can be represented by 01, 12, etc., and 'L' can be represented by 56, 67, etc. Similarly you have to identify the set for the word 'SPARE'.

M	MATRIX - I									
	0	1	2	3	4					
0	S	U	P	Е	R					
1	R	S	U	P	Е					
2	Е	R	S	U	P					
3	P	Е	R	S	U					
4	U	P	Е	R	S					





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MATRIX - II									
5 6 7 8									
5	G	L	A	N	D				
6	D	G	L	A	N				
7	N	D	G	L	A				
8	A	N	D	G	L				
9	L	A	N	D	G				

(A) 22, 41, 85, 32, 14

(B) 12, 24, 21, 68, 14

(C) 44, 78, 67, 32, 42

(D) 33, 30, 43, 40, 43

18. Which of the following figures correctly represents the relations between: Doctors, Lawyers, Professionals.



19. Select the missing numbers from the given alternatives.

7	56	8
9	45	?
11	99	9

(A) 6

(B)9

(C) 5

(D) 4

20. In a class of 180, where girls are twice the number of boys, Ramu [a boy] ranked 34th from the top. If there are 18 girls ahead of Ramu, how many boys are there after him in rank?

(A) 45(C)43 (B) 44 (D) 46

21. A mother is five times older than her daughter. After 5 years, she would be three times older than her daughter. Find the mother's present age.

(A) 20 years

(B) 22 years

(C) 25 years

(D) 29 years

22. Consider the given statement/s to be true and decide which of the given conclusions can definitely be drawn from the given statement.

Statement: To achieve economic development, people should work hard.

Conclusions:

I. Economic development is directly related to people's hard work.

II. Hard work, by all the people, is impossible.

- (A) Only I follows
- (B) Only II follows
- (C) Both I and II follow
- (D) Neither I nor II follow

23. A piece of paper is folded and cut as shown below in the question figure from the given answer figures, indicates how it will appear when opened?

(A) A

(B) B

(C) C

(D) D

24. Which of the following figure is the correct mirror image of the given figure?

Question Figure:-



Answer Figure:-



25. Select the answer figure in which the question figure is hidden/embedded.

Question Figure:-



Answer Figure:-



GENERAL KNOWLEDGE

26. Which among the following is not an inner planet?

(A) Mercury

(B) Saturn

(C) Venus

(D) Earth

27. "Judicial Review" has been taken from:

(A) U.K. Constitution

(B) U.S.A. Constitution

(C) South African Constitution

(D) Australian Constitution

28. Tripitakas are sacred books of _ (A) Sikhs

(B) Jews (D) Muslims

(C) Buddhists

29. The image formed on the retina of the eye is -

(A) Upright and real

(B) Larger than the object.

(C) Real and Inverted

(D) Enlarged and real

30. Ryder Cup is associated with which sport?

(A) Horse Race

(B) Football

(C) Cycling

(D) Golf

31. Which one of the following words is not mentioned in the preamble of the Indian Constitution?

(A) Sovereign

(B) Secular

(C) Federal

(D) Democratic

32. The only operational Naval Base exclusively controlled by the Indian Navy is located at -

(A) Puducherry

(B) Okhla

(C) Karwar

(D) Kakinada

33. The radio isotope used to detect tumors is?

(A) Iodine - 131

(B) Cobalt - 60 (D) Sodium - 24

(C) carbon -14**34**. Which one of the following princely states acceded to the Indian on 15 August, 1947?

(A) Hyderabad

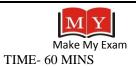
(B) Junagarh

(C) Kashmir

(D) Mysore

35. At which one of the following place East-West Corridor connecting Silchar and Porbandar and North-South Corridor connecting Srinagar and Kanyakumari, intersect each other?





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(A) Jhansi	(B) Agra	(C) Morarji Desai	(D) Rajendra Prasad			
(C) Jabalpur	(D) Nagpur	50 . To which Indian state does Bhara	t Natayam dance belong?			
36 . What is the IUPAC name of ethy		(A) Kerala	(B) Tamil Nadu			
(A) Ethyne- 1, 2 –diol	(B) Ethane -1, 1 -ol	(C) Uttar Pradesh	(D) Andhra Pradesh			
(C) Ethanal	(D) Ethane - 1, 2 -diol					
37 . Which part of an eye is transplant						
(A) Cornea	(B) Retina	QUANTITATIVI	E APTITUDE			
(C) Iris	(D) Sclera	7 4 0				
38 . Who invented Penicillin?	(D) Lauria Dantana	51. On a certain Principal if the Sim				
(A) William Harvey	(B) Louis Pasteur	2400 and Compound interest for the	two years is Rs. 2544, what is			
(C) Alexander Fleming39. The Universal donor group of blo	(D) Edward Jenner	the rate of Interest?	(D) (
		(A) 12 percent	(B) 6 percent			
(A) O (C) B	(B) A (D) AB	(C) 24 percent	(D) 18 percent			
40. Which of the following is a part of	, ,	52. What is the equation of the line $\sqrt{2}$	which passes through the points			
(A) Arctic Sea	(B) Baltic Sea	(2, 3) and $(-4, 1)$? (A) x- 3y = -7	(B) $x + 3y = 7$			
(C) Red Sea	(D) Bering Sea	(A) $x - 3y = 7$ (C) $x - 3y = 7$	(D) $x + 3y = 7$ (D) $x + 3y = -7$			
41. Questions of disqualification of		53. What is the ratio of 40 paise and $\frac{1}{2}$				
except in case of defection have to be		(A) 1: 8	(B) 1: 16			
(A) The Election Commission in co		(C) 1:15	(D) 1: 10 (D) 1: 5			
the LokSabha		54 . Two pipes 1 and 2 can fill a t	` '			
(B) The Speaker or the Chairman	of the respective House in	respectively. If both pipes are opened				
consultation with the Election Comm		should 1 be closed so that the tank is				
(C) The President according to		(A) 1 hr. 10 min	(B) 1 hr. 15 min			
Commission	•	(C) 1 hr. 20 min	(D) 1 hr. 30 min			
(D) The Supreme Court		55. The height of a room is twice its breadth and breadth is 1/16thof				
42. Question Hour in the Parliament	refers to?	its length. If its volume is 4000 m ³ , th				
(A) The lunch hour after the sitting		(A) 10 m	(B) 12 m			
(B) The last hour of the sitting		(C) 18 m	(D) 20 m			
(C) The first hour of the sitting		56. Four bells commence tolling to	gether and toll at interval of 4			
(D) The second hour of the sitting		sec, 6 sec, 8 sec and 14 sec. If they to	all together at 12 o'clock then at			
43 . The vitamin which is generally ex		what time will they toll together again	n?			
(A) Vitamin A	(B) Vitamin D	(A) At 12:02:48	(B) At 12:03:40			
(C) Vitamin C	(D) Vitamin E	(C) At 12:03:20	(D) At 12:03:44			
44 . Heat resistant variety of glass is -		57 . The L.C.M. of two numbers is 12				
(A) Pyrex glass	(B) Hard glass	the L.C.M. and H.C.F. is 403. If on	e of the number is 93 then the			
(C) Flint glass	(D) None of these	other number is	(T) 120			
45 . Who was the Chairman of the	e Drafting Committee of the	(A) 124	(B) 128			
Constitution?	(D) Daian dua Duaca d	(C) 134	(D) 138			
(A) J. B. Kripalani	(B) Rajendra Prasad	58. Two trains of length 120 m and				
(C) J. L. Nehru	(D) B. R. Ambedkar	opposite directions at a speed of 50 l				
46 . EmmersonMnangagwa is Preside (A) Kenya	(B) Nairobi	In what time will they cross each other (A) 17 and				
(C) Egypt	(D) Zimbabwe	(A) 17 sec	(B) 12 sec			
47. India began a joint Army exercis		(C) 36 sec 59. Gaurav spends 40% on hostel, 2	(D) 22 sec			
in Meghalaya?	c INIDAX with which ration	and 50% of the rest on transport from				
(A) France	(B) USA	After spending on hostel, books and				
(C) Myanmar	(D) Bangladesh	saves Rs. 450 which is half of the r				
· · · · · ·	-	he got from his father?	est amount. How much money			
48 . Who among the following made	e the statement that Swaraj is	(A)Rs. 3,000	(B)Rs. 6,000			
my birth right"?		(C)Rs. 4,500	(D) Cannot be determined			
(A) Swami Vivekanand	(B) Raja Rammohan Roy	60 . The salary of an employee of a				
(C) BalGangadharTilak	(D) Swami Dayanand	month. If the salary in August is R				
49. Who led the Bardoli Satyagraha?		salary in October of the same year?				
(A) Mahatma Gandhi	(B) Vallabhbhai Patel	(A) Rs. 6,552	(B) Rs. 6,967			
		(C) Rs. 6,814	(D) Rs. 6,627			



Division C/Standard 6

10

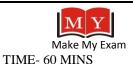
SSC CHSL Memory Based Paper 1



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(1 C-11-4-05 - 105			ı					
61 . Calculate 95 × 105.		(B) 992	15	72 Find the ratio of the everage r	umber of hove and that of sink			
(A) 9075 (C) 9025		(D) 99.		72 . Find the ratio of the average n for standard 6?	difficer of boys and that of girls			
62 . A train 400 meters lo	no is mo	` ′		(A) 1:2	(B) 1:1			
taken to cross a bridge of				(C) 3:2	(D) 2:1			
(A) 5 seconds	100 meter	•	seconds					
(C) 20 seconds		` '	seconds	73. Ten points are to be deducted from this student's average o marks scored because of poor attendance. What will be this				
63 . ABC is a triangle in w	hich DE			student's net average marks scored?				
DE : BC is		Do uno		(A) 62	(B) 61			
(A) 4:5		(B) 9:	5	(C) 72	(D) 71			
(C) 4:9		(D) 5:		74. A student multiplied a number	· /			
64. If $\sin A + \sin^2 A =$	1 then			is the percentage error in the calcula	•			
cos ⁴ A?				(A) 39.67 percent	(B) 28.4 percent			
(A) ½		(B) 1		(C) 14.2 percent	(D) 19.83 percent			
(C) 2		(D) 3		75 . The two numbers are 63 and 77,				
65. A wholesaler sells a v	watch to	a retailer	at gain of 36% and the	(A) 668	(B) 693			
retailer sells it to a custom				(C) 674	(D) 680			
2499, what had it cost the	wholesale	er?						
(A) Rs. 2548		(B) Rs	2450	ENGL	TCH			
(C) Rs. 3123		(D) Rs	. 2352		715741			
66. The ratio of quantities	of an aci	d and wa	ter in a mixture is 1:3.	DIDECTION (O. 57.55) I. (I.	e 11 ·			
If 5 litres of acid is fur				DIRECTION (Q. 76-77):- In the				
becomes 1 : 2. The quantit	ty of initia	al mixture	in litres is?	of the sentence may have errors	-			
(A) 32		(B) 40		sentence has an error and select				
(C) 42		(D) 45		sentence is free from error, select 'No Error'. 76. In case under (A) / any difficulty you (B) / should call me. (C) /				
67 . The value of $\sin^2 11^\circ$	+ sin ² 79				y you (B) / should call me. (C) /			
(A) 1		(B) 0		No Error (D) (A) A	(B) B			
(C)2		(D) -1		(C) C	(D) D			
68 . A pole broke by the				77. Govardhan decided that (A) / h				
angle of 30° and at distan			ne foot of the pole. The	the following day. (C) / No Error (D				
height of the pole before in	t was brol		-	(A) A	(B) B			
(A) $20\sqrt{3}$		(B) 60		(C) C	(D) D			
(C) $\frac{40}{\sqrt{3}}$		(D) $\frac{100}{\sqrt{3}}$		DIRECTION (Q. 78-79):- In the				
69 . If $a^3 + b^3 + c^3 = 3ab$	c. then w			given with blank is to be filled	·			
correct?	•,			Select the correct alternative out				
(A) a + b + c = 0		(B) a =	$b \neq c$	selecting the appropriate option.				
(C) $a = b = c$			ner (A) or (C)	78 . They have started a charitable _	in their city.			
70 . Find the remainder wh	nen 2 ¹⁰⁰ is			(A) Story	(B) Foundation			
(A) Zero		(B) 1		(C) Incentive	(D) Company			
(C) 2		(D) 30		79. Even many setbacks in his ende	avours never made him falter in			
71 . The value of $\frac{1}{1\times 2} + \frac{1}{2\times 3}$	$\frac{1}{3\times4} + \frac{1}{3\times4} + \frac{1}$		$+\frac{1}{19\times20}$ is?	his	(D) C :::			
(A) 1	3/4	(B) 1/2		(A) Wish	(B) Supposition			
(C) 19/20		(D) 1/2	,	(C) Ambitions	(D) Question			
DIRECTION (Q. 72-73	3):- Refe	er the b	elow data table and	80 . Rearrange the parts of the senter	ice in correct order.			
answer the following Que	estion.			I wished him				
Division/Standard	Boys	Girls		P. success for all Q. the years to come				
Division A/Standard 5	20	30		R. great health and				
Division B/Standard 5	15	20		(A) QRP	(B) RPQ			
Division C/Standard 5	30	10		(C) PQR DIRECTION (Q. 81-83):- In the	(D) QPR se questions, four alternatives			
Division A/Standard 6	30	45		are given for the idiom/phrase g	given in bold in the sentence.			
Division B/Standard 6	30	35		Choose the alternative which bes	t expresses the meaning of the			
				idiom/phrase given in bold.				





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- **81**. The rustics **weretaken to the cleaners** when ventured into the
- (A) Lost all their money in business/gambling
- (B) were thoroughly beaten up
- (C) were frightened
- (D) were made to feel diffident
- 82. I do not think the law will interfere with us as we are just trying to turn an honest penny.
- (A) make a legitimate living
- (B) make a good living
- (C) have dealings in white money
- (D) become more honest
- 83. The boy turned a deaf ear to the pleadings of all his wellwishers.
- (A) listened carefully
- (B) was deadly opposed
- (C) posed indifference
- (D) did not pay any attention

DIRECTION (Q. 84-85):- In the following questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

- **84**. Medicine used to calm or pacify
- (A) hypnotic
- (B) antidepressant

(C) tranquillizer

- (D) fusion
- **85**. Murder of a king
- (A) butchery

- (B) regicide
- (C) slaughter
- (D) infanticide
- 86. Hater of learning and knowledge
- (A) misologist

- (B) posologist
- (C) syllogist
- (D) zoologist
- **87**. Select the synonym of **Scourge**
- (A) Dirty

(B) Curse

(C) Baby

- (D) Devil
- **88**. Select the synonym of **Scum**
- (A) Filth

(B) Scam

(C) Detailed

- (D) Scrawny
- 89. Select the antonym of Reverence
- (A) Devotion

(B) Piety

(C) Hatred

- (D) Praise
- 90. Select the antonym of Goading
- (A) Inciting

(B) Provoking

- (C) Mustering
- (D) Blocking

DIRCTION (Q. 91-95):- Read the passages carefully and choose the best answer to each question out of the four alternatives.

Greyhound racing is the sixth most popular spectator sport in the United States. Over the last decade, a growing number of racers have been adopted to spend their retirement as household pets, once their racing careers are over. Many people hesitate to adopt a retired racing greyhound because they think only very old-dogs are available. Actually even champion racers only work until they are about three- and a half years old. Because greyhounds usually live to be 12 to 15 years old, their retirement is much longer and active than other breeds and will need a large space to run. These are false impression. Greyhounds have naturally sweet, mild dispositions, and while they love to run they are sprinters rather than distance runners and are sufficiently exercised with a few daily laps around a fenced -in- backyard. Greyhounds do not make good watchdogs, but they are very good with children get along well with other dogs (and usually cats as well), and are affectionate and loyal. They are intelligent, well- behaved dogs, usually housebroken in only a few days. A retried racing greyhound is wonderful pet for almost anvone.

- **91**. Based on the tone of the passage the author's main purpose is to
- (A) Teach prospective owners how to transform their racing greyhound into a good pet.
- (B) Show how the greyhound's nature makes it equally good as racer and pet.
- (C) Encourage people to adopt retired racing greyhounds.
- (D) Objectively present the pros and cons of adopting a racing greyhound
- 92. According to the passage, adopting a grey hound is a good idea for people who
- (A) Do not have children
- (B) Live in apartments
- (C) Do not usually like dogs.
- (D) Already have another dog or a cat.
- 93. Which of the following is implied by the passage?
- (A) The public is more aware of greyhounds than they used to be.
- (B) Greyhounds are more competitive than the other dogs.
- (C) Greyhound racing should not be allowed.
- (D) People who own pet rabbits should not adopt greyhounds.
- 94. One drawback of adopting a greyhound is that
- (A) Greyhounds are not good with children
- (B) Greyhounds are old when they retire from racing.
- (C) The greyhound's sensitivity makes it temperamental.
- (D) Greyhounds are not good watch dogs.
- 95. This passage is most like an advertisement because it
- (A) Uses statistics to prove its point.
- (B) Does not present information to substantiate its claims
- (C) Says nothing negative about greyhounds.
- (D) Encourages people to do something.

DIRECTION (Q. 96-97):- Improve the bracketed part of the

- 96. Tina said she (has went) to the temple before.
- (A) have gone

- (B) had gone
- (C) has been gone
- (D) Have been going
- 97. Yasmin wanted to have her own say in the (home-related) affairs.
- (A) Housing

(B) Homemaking

(C) Domestic

(D) Homey

- (A) Anihilate
- **98**. Select the word with the correct spelling. (B) Quisst
- (C) Burdennsome
- (D) Intricate
- 99. In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active

Chetan tackled the situation carefully and covertly.

- (A) Carefully and covertly Chetan tackles the situation.
- (B) The situation is tackled carefully and covertly.
- (C) The situation was tackled carefully and covertly by Chetan.
- (D) Chetan carefully and covertly tackled the situation.



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100. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.

Neeraj said to Meera, "Tell me that yourself"

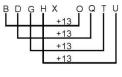
- (A) Neeraj said to Meera that she tell him that himself.
- (B) Neeraj said to Meera that she should tell him that herself
- (C) Neeraj told Meera to tell him that herself
- (D) Neeraj said to Meera to tell him herself

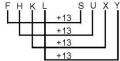


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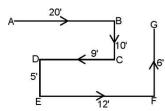
SSC CHSL MEMORY BASED PAPER -1 SOLUTION

1.(C)





2. (C)



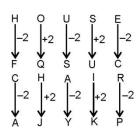
- 3. (C) mno/nopq/opqrs/pqrst
- 4. (C) 4+8=12 8+8=16 14+10=24 6+8=14

5. (D)

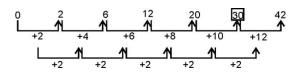


- 6. (B)
- 7. (B) $11^2 = 121$ and 11 + 1 = 12 $5^2 = 25$ and 5 + 1 = 6
- 8. (B) $4246 \Rightarrow 4 \times 6 = 24$ $8314 \Rightarrow 84 = 32 \neq 31$ $9546 \Rightarrow 9 \times 6 = 54$ $5306 \Rightarrow 5 \times 6 = 30$
- 9. (A) 5+2.5=7.5 7.5+5=12.5 12.5+10=22.522.5+20=42.5

10. (D)



- 11. (D)
- 12. (D)



- 13. (B)
- 14. (B)
- **15. (C)** $30 \div 6 4 + 2 \times 3 = 7$ 5 4 + 6 = 7
- 16. (A) Torque
 Torrid
 Torso
 Tortoise
 Tortuous
- 17. (A)



- 18. (C)
- 19. (C) $56 = 7 \times 8$ $99 = 11 \times 9$ $45 = 9 \times \boxed{5}$
- 20. (B) Total no of students = 180
 Girls are twice the no of Boys
 No. of Girls in class = 120
 No. of boys in class = 60

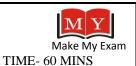
Ramu's Rank top 34 and 18 girls are ahead of Rammu \therefore No of Boys up to 34^{th} rank from top = 34 - 18 = 16 No of boys after the rank of Ramu

21. (C) Daughter = x Mother = 5x x + 5 = 5x + 5 3(x + 5) = 5x + 5 2x = 10 x = 5 $5x = 5 \times 5$

= 25

- 22. (A)
- 23. (B)
- 24. (B)
- 25. (C)





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51. (A)
$$CI = P\left(1 + \frac{r}{100 \times n}\right)^{nt} - P$$

 $SI = \frac{P \times r \times 2}{100} = 2400$
 $Pr = 120000$
 $C.I = P\left(1 + \frac{r}{100}\right)^2 - P = 2544$
 $P\left(1 + \frac{r^2}{10000} + \frac{2r}{100}\right) - P = 2544$
 $(Pr) \times \frac{r}{10000} + \frac{Pr}{100} = 2544$

$$\frac{120000r}{10000} + 2400 = 2544$$

52. (A)
$$(x_1, y_1)$$
 and (x_2, y_2) is

$$(y-y_1) = \frac{y_2 - y_1}{x_2 - x_1} \times (x - x_1)$$

Equation of the line which passes through the Points (2,

3) and (-4,1) is
$$(y-3) = \frac{1-3}{-4-2} \times (x-2)$$

= -6y + 18 = -2x + 4
= x - 3y = -7

53. (C) To take out ratio Both the quantities should be of the same unit so, Rs. 6 = 600 Paise 40 Paise : 600 Paise = 1:15

54. (B)
Pipe
A

Part filled by pipe 2 in 2 hours = 10 units

Time taken by A to fill rest = $\frac{10}{8}$ = $1\frac{1}{4}$ hr

55. (A) Volume of a room = Length × Breadth × Height Height of a room is twice its breath and $\frac{1}{8\text{th}}$ of its

length

Breadth =
$$\frac{1}{2}$$
 × height and Length

=
$$\frac{1}{2}$$
 × Height × 8 × Height × Height = 4000
= Height³ = 1000

56. (A) L.C.M of 4, 6, 8 and 14 sec = 168 sec = 2 min 48 sec

57. (A) ATQ

$$x + 12x = 403$$

 $x = 31$
LCM = $12 \times 31 = 372$
 $93 \times \text{ second no} = 31 \times 372$
 $\text{second no} = \frac{31 \times 372}{93}$

58. (B) Train are running in opposite Direction Relative speed =

$$(50 + 40) \text{ km/h} = 90 \times \frac{5}{8} \text{ m/sec}$$

$$= 25 \text{m/s}$$
Required Distance = 120 + 180
$$= 300 \text{ m}$$

Required time =
$$\frac{300}{25}$$

59. (C) Total Expenses of hostel and Books = 40% + 20% = 60% Half of rest = 40% and 120% Expense on transport

20% of
$$\frac{1}{2}$$
 = 450
20% = 900
100% = 4500

60. (C) Salary fo september = $6300 \times \frac{104}{100} = 6552$

Salary fo october =
$$6552 \times \frac{104}{100} = 6814$$
 (approx)

61. (D) =
$$95 \times 105 = (100 - 5) \times (100 + 5)$$

= $95 \times 105 = 100^2 - 5^2 (a^2 - b^2) = (a + b) (a - b)$
= $95 \times 105 = 10000 - 25$
= $95 \times 105 = 9975$

62. (D) Length of train = 400 m

Speed of train = 20 m/s

Total Distance to be covered = 400 + 100

$$Time = \frac{Dis tan ce}{speed}$$

$$T = \frac{500}{20}$$

63. (D)





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$$\frac{AE}{AC} = \frac{AD}{AB} = \frac{DE}{BC}$$

$$= \frac{AD}{DB} = \frac{5}{4}$$

$$= \frac{AD}{AB} = \frac{DE}{BC} = \frac{5}{9}$$

64. (B) Sin A + Sin² A = 1

$$Sin A = 1 - Sin^2 A = Cos^2 A (i)$$

$$(\because \sin^2\theta + \cos^2\theta = 1)$$

Squaring on Both sides

$$Sin^2A = cos^4 A \dots$$
 (ii)

Substitute (i) and (ii)

$$Cos^2 A + cos^4 A = Sin A + Sin^2 A = 1$$

$$\therefore \cos^2 A + \cos^4 A - 1$$

65. (B) CP of watch be x for wholesaler

SP for wholesaler =
$$\frac{136}{100}$$
 x

CP for retailer = SP for wholesaler

SP for retailer =
$$\frac{75}{100} \times \frac{136}{100} x = \frac{75}{100} \times \frac{136}{100} x = 2499$$

$$x = Rs 2450$$

66. (B) Ratio fo acid & water = $\frac{x+5}{3x} = \frac{1}{2}$

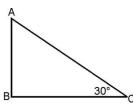
$$x = 10$$

Initial quantity = $40 \times 10 = 40$

67. (A)
$$\sin^2 11^\circ + \sin^2 79^\circ = \sin^2 11^\circ$$

$$+ Sin^{2} (90 - 11^{\circ}) = Sin^{2} 11^{\circ} + cos^{2} 11^{\circ} = 1$$

68. (A)



Let the height of Pole before breakage be AB + AC.

So, AB = BC tan
$$30^{\circ}$$
 and AC = BC / $\cos 30^{\circ}$

$$\therefore AB = \frac{20}{\sqrt{3}} \text{ and } AC = \frac{40}{\sqrt{3}}$$

So, AB + AC =
$$20\sqrt{3}$$

69. (D)
$$a^3 + b^3 + c^3 = 3$$
 abc only if either $a + b + c = 0$ or $a = b = c$

70. (B)
$$\frac{2^{100}}{31} = \frac{\left(2^5\right)^{20}}{31} = \frac{\left(32\right)^{20}}{31} = 1^{20}$$

= 1

71. (C)
$$\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{19 \times 20}$$
$$= \left[1 - \frac{1}{2}\right] + \left[\frac{1}{2} - \frac{1}{3}\right] + \left[\frac{1}{3} - \frac{1}{4}\right] + \dots + \left[\frac{1}{19} - \frac{1}{20}\right]$$
$$= 1 - \frac{1}{20} = \frac{19}{20}$$

(72-73)

72. (B) Average no. of the boys of standard 6

$$=\frac{30+30+30}{3}=30$$

Average no. of the girls of standard 6

$$=\frac{45+35+10}{3}=30$$

Required Ratio = 30:30

73. (A) Average fo Five Subjects = Total marks of the subjects / No of subjects

$$(65+55+80+75+85)$$

Student net Average marks = 72 – 10

74. (B) Let the number be x

wrong number =
$$\frac{11x}{13}$$

Actual number =
$$\frac{13x}{11}$$

Error =
$$\frac{13x}{11} - \frac{11x}{13}$$

$$=\frac{48x}{143}$$

Percentage Error =
$$\frac{\frac{48x}{143}}{\frac{13x}{11}} \times 100$$

75. (B) LCM \times HCF = 63 \times 77

$$LCM = 63 \times \frac{77}{7}$$

= 693



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76(A): Error lies in the **A** part of the sentence, "In case under" should be replaced with "In case of".

77(D): There is no error in the given sentence. So, **Option D** is correct answer.

78(B): Option **B** is appropriate word to be filled up in the given sentence.

79(C): Option C is appropriate word to be filled up in the given sentence.

80(B): The correct sequence is – **RPQ.** So, **Option B** is correct answer.

81(A): Option A expresses the correct meaning of the given phrase. So, Option A is correct answer.

Were taken to the cleaners - to be soundly defeated or bested; to lose by a wide margin.

82(C):Option C expresses the correct meaning of the given phrase. So, **Option C** is correct answer.

Turn an honest penny - to earn money in an honorable and legitimate way.

83(D): Option D expresses the correct meaning of the given phrase. So, **Option D** is correct answer.

turn a deaf ear - refuse to consider it and do not pay any attention to it.

84(C): Tranquillizer - a medicinal drug taken to reduce tension or anxiety.

So, **Option C** can best substitute the given phrase.

85(B): Regicide - a person who kills or takes part in killing a king. So, **Option B** can best substitute the given phrase.

86(A): Misologist - distrust or hatred of reasoning, argument, or knowledge.

So, Option A can best substitute the given phrase.

87(B): Option B is the correct synonym for the given sentence. **Scourge** - an affliction, bane or a curse.

88(A): Scum - dirt or filth.

So, **Option A** is correct antonym for the given word.

89(C):Reverence - devotion.

So, **Option C** is correct antonym for the given word.

90(D): Goading - inciting or provoking someone to so something. So, **Option D** is correct antonym for the given word.

91(C):According to the passage, **Option C** is correct choice.

92(D): According to the passage, **Option D** is correct choice.

93(A): According to the passage, **Option A** is correct choice.

94(D): According to the passage, **Option D** is correct choice.

95(D): According to the passage, **Option D** is correct choice.

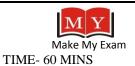
96(B): Option B is correct answer. **'Had gone'** should be used in place of **'has went'** because the tense to be used here must be in past perfect.

97(C): Option C is correct answer.

98(D): Option D is correctly spelt word. **Intricate** -very detailed or complex.

99(C): Option C is correct answer. 100(C):Option C is correct answer.





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SSC CHSL Memory Based Paper 1(ANSWER KEY)

1(C)	2(C)	3(C)	4(C)	5(D)	6(B)	7(B)	8(B)	9(A)	10(D)
11(D)	12(D)	13(B)	14(B)	15(C)	16(A)	17(A)	18(C)	19(C)	20(B)
21(C)	22(A)	23(B)	24(B)	25(C)	26(B)	27(B)	28(C)	29(C)	30(D)
31(C)	32(C)	33(A)	34(D)	35(A)	36(D)	37(A)	38(C)	39(A)	40(B)
41(C)	42(C)	43(C)	44(A)	45(D)	46(D)	47(C)	48(C)	49(B)	50(B)
51(A)	52(A)	53(C)	54(B)	55(A)	56(A)	57(A)	58(B)	59(C)	60(C)
61(D)	62(D)	63(D)	64(B)	65(B)	66(B)	67(A)	68(A)	69(D)	70(B)
71(C)	72(B)	73(A)	74(B)	75(B)	76(A)	77(D)	78(B)	79(C)	80(B)
81(A)	82(C)	83(D)	84(C)	85(B)	86(A)	87(B)	88(A)	89(C)	90(D)
91(C)	92(D)	93(A)	94(D)	95(D)	96(B)	97(C)	98(D)	99(C)	100(C)