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SSC DATA ENTRY & LOWER DIVISION CLERK EXAM 2011: SOLVED QUESTION PAPER



<b>Directions</b> (Q.Nos. 1 to 9) Select the related words/letters/numbers from	8. ACEC ; ZXVT : : HJLM ; ? (a) QOMK (b) SRPO	(d) All have peak except valley. 15. (a) 919-949 (b) 646-686
the given alternatives.	(c) RPNL (d) SQON	(c) 828-848 (d) 434-464
1. Horse': Hoof :: ? (a) Man : Foot (b) Dog : Black (c) Paise : Rupee (d) Pen : Pencil ?		<ul> <li>(a) In all the given sumbers, the middle digit is twice in second group.</li> </ul>
(c) Paise . Rupee (d) Fein Feinch (a) Hoof is related to horse, in the same way, foot is related to man.	ZYXWVUTSROPON	<b>16.</b> (a) NML (b) OPQ (c) XMV (d) HGE
2. LO: PK: ; IR: ? (a) GT (b) SH (c) MN (d) FU	S Q O N 9. Oxygen : Burn : : Carbon dioxide : ?	<ul> <li>(d) All the letters are arranged alphabetically in right or left order; except (d).</li> </ul>
	(a) Isolate (b) Foam (c) Extinguishes (d) Explode	17. (a)E (b) (c) O (d) V
LO: PK: IR : MN	(c) The fire burns due to presence of oxygen	(d) All are vowels except V.
	and the fire extinguishes due to carbon dioxide.	<b>18.</b> (a) 24-47 (b) 38-61 (c) 74-98 (d) 54-77
3. Night : Morning : : ? : Night (a) Noon (b) Forenoon (c) Afternoon (d) Evenifity	<b>Directions</b> (Q.Nos. 10 to 18) Select the one which is different from the other three responses.	<ul> <li>(c) In all the pairs, first numbers are even and second numbers are odd.</li> </ul>
(d) Morning comes after night and night . comes after evening.	10. (a) Pen(b) Marker(c) Paper(d) Pencil	<b>19.</b> Arrange the following words according to English Dictionary.
4. QTU : ILM : : BEF \ ? (a) PSZ (b) CFH (c) WZA (d) UXB	<ul> <li>(c) We can write with pen, marker, pencil on paper. So, paper is different out of them.</li> <li>11. (a) ABDG (b) CDFI (c) EFHK (d) GHJK</li> </ul>	1. Gargle 2. Garden 3. Garbo 4. Garnish 5. Garland (a) 2, 3, 4, 1, 5 (b) 3, 2, 1, 5, 4
QTU:ILM:BEF:WZA	(d) $(d)$	(c) 3, 2, 4, 5, 1 (d) 4, 3, 2, 1, 5 (b) The required order of the given words is
+3 +1 +3 +1 +3 +1 +3 +1 5. 6524 : 6465 : : 9638 : ?	▲ B D G C D F I ↓ ↓ ↓ ↓ ↓ +1 +3 +1 +3	Garbo, Garden, Garge, Carland and Garnish.
(a) 9825 (b) 9736 (c) <b>9697 (d)</b> 9579		Directions (Q.Nos. 20 to 21) Which
(d) 6524-59=6465 9638-59=9579	EFHK GHJK LA LA LA +1 +3 +1 +1	one of the siven responses would be a meaningful order of the following words in some order?
<b>6.</b> 64 : 144 : : 256 : ? (a) 16 (b) 32 (c) 400 (d) 336	Therefore, GHJK is different from the other three.	20. 1. Vegetable 2. Market 3. Cutting 4. Cooking
(c) $8^2 = 64$ and $(8 + 4)^2 = 12^2 = 144$ In the same way,	12. (a) Graph (b) Chart (c) Model (d) Drawing	5. Food 14 (1) (a) 1, 2; 3; 6; 5 (b) 2, 1, 3, 4, 5
$16^2 = 256$ and $(16 + 4)^2 = 20^2 = 400$	(c) Model is different from the other three	(c) 3, 1, 2, 5, 4 (d) 5, 2, 1, 3, 4
7. 08 : 28 : : 15 : ? (a) 63 (b) 65 (c) 126 (d) 124	responses. 13. (a) 73 (b) 53	<ul> <li>(b) The required ascending order of given words is Market Vegetable, Cutting, Cooking and Load</li> </ul>
(b)	(c) 87 (d) 67	and Food.
$08 \times 02 = 16$ and $16 = 2 \times 8 = 28$ ,	<ul> <li>(c) All are prime numbers while 87 is divisible by 3.</li> </ul>	<b>21.</b> 1. Honey <sup>0t&gt;</sup> 2. Flower 3. Honey Bee 4. Wax
1 *	<i>u</i> , <i>u</i> ,	(a) 1, 3, $4, 7$ , (b) 2, 1, 4, 3



) (c) The required ascending other of given words is Flower, Honey Bee, Honey and Wax. 22. Which one of the set of letters when sequentially placed at the gaps in the given letter series shall complete it? ۲ \_\_bb\_\_c\_bg\_\_b\_\_g (a)cbgbc (b)cgbcb (c)cgbcc (d)gbcbb ● (b)cbbgcbbgcbbg=cgbcb Directions (Q.Nos. 23 to 26) Choose the correct alternative from the given ones that will complete the series. 23. 169, 144, 121, 100, ?<sup>\*\* 1991</sup> (a) 99 (b) 74 (c) 81 **(0** 101 • (c) ) (a) 160 144 121 (13)<sup>2</sup> (12)2 (11)2 (10) \_1 -tor mint want 24. FLU, GMV, HNW, IOX, ? (a) JYP (b) WYP 1.15 (c) WPY (d) JPY 1 (1) U GMV HNW LOX #+1, ±1 1+1 +I P, C, Q, E, R, G, ?, ? 25. A (a) SI (b) HI (c) IS (d) T) • (d) 🛊 (a) a +1 conde Q Ē. 8 G +2 Ì 30 **96.** 5, ?, 23, 47, 95, 191 (a) 13 (b) 10 (c) 17 (đ) 11 23+(23+1)=47 47+(42+1)=95 95+(95+1)=191 27. From the given alternatives, select the word which cannot be formed using the letters of the given word. Educational See. (a) National ALNest. Lion (c) Dean •) The word National and the formed ) (d) The word Nation S. Find the wrong number in the given serve S 20, 40, 200, 400, 2000, 4000, 9000 (a) 200 ' (b) 2000 (c) **S000 (c)** 4000 (1) DOMESTIC . . . . . 2000 4000 XIU 1 10 ¥10 ×10,.... Sa the term 8000 is wranged year' Sis. Which of the following interchanges of signs would make the given given equation correct?  $R_{\rm eff}(x, t)$ 

5+6+3-12×2=17 (a) + and × · · · (b) Fand × (c) + and + (d) + and -(a) Replacing the signs + and ×, 5+6×3-12+2=17 5+18-12 <u>نہ</u> =17 2 23 - 6 = 17= 14 17 =17 ⇒ 30. If SPANK is coded as PSNAK then how will THROW be coded? (a) HTCRW (b) HTWOR (c)HTWRO 111 (d) HTROW In the same way, H ĥ 31. Some equations are solved on the basis of a certain system. On the same 1 basis, find out the correct answer for the unaplved equation. 5+3+7=5736+3+9=693 6+4+8=6849+4+5=? (a) 594 (b) 945 (c) 459 (d) 954 5 In the same way, A. Cak 39. If Anil runs less fast them Sunil and Sunil runs as fast but not faster than Suraj, then Suraj runs (a) as fast as Anil (b) faster than Sunil (c) faster than Anil (d) less fast than Anil (c) Sumil > Anit (Sunil = Sungi) > Anil Therefore, (Surray & Anil) runs filster than Anie d hence, Suraj 33. Select the connect combination of mathematical signs to replace \* signs and to balance the given equation. 16\*4\*3\*47.13 (b)×-+=  $(\mathbf{x}) + \mathbf{X} - =$ (c) + = + x(d) + × + = (d) Using signs -, × + and =, respectively we get the equation 16-4×3+4=13 16-3=13

 $\sim$ 13=13 - (b) -

84. If BANGALORE is written as 987685432, how is ELLORA written in the same code?
(a) 245538 (b) 255438 (c) 245348 (d) 254538
(b) BANGALORE
987685432
In the same way,
∴ ELLORA                     
35. A group of alphabets are given with each being assigned a number. These
each being assigned a number. These have to be unscrambled into a meaningful word and correct order of
letters may be indicated from the given responses.
EOCNA 12345
(a) 34521 (b) 23154
(b) 43125 (d) 13254 (b) Meaningful word
(b) Meaningtul word E O C N A O C E A N
12345
36. Looking at a photograph, a person
said "I have no brother or sister but that man's father is my father's son".
At whose photograph was the person looking at?
kooking at? (a) His son's (b) His nephew's
looking at? (a) His son's (b) His nephew's (c) His father's (d) His own
looking at? (a) His son's (b) His nephew's (c) His father's (d) His own
(a) His son's (b) His nephew's (c) His father's (d) His own (d) We get Son Fether son Son
looking at? (a) His son's (b) His nephew's (c) His father's (d) His own
(a) His son's (b) His nephew's (c) His father's (d) His own (d) Son Father Son By diagram, it is clear that the photo is of his own. Directions (Q.Nos. 37 and 38) Select
(d) His son's (b) His nephew's (c) His father's (d) His own (d) Fether Son Fether Son By diagram, it is clear that the photo is of his own. Directions (Q.Nos, 37 and 38) Select the missing number from the given responses.
<ul> <li>looking at?</li> <li>(a) His son's. (b) His nephew's</li> <li>(c) His father's. (d) His own</li> <li>(d) Son Frather</li> <li>Son Frather</li> <li>Son Frather</li> <li>By diagram, it is clear that the photo is of his own.</li> <li>Directions (Q.Nos, 37 and 38) Seject the missing number from the given responses.</li> <li>87. 5 4 9 6</li> <li>7 5 2 4</li> </ul>
(d) His son's (b) His nephew's (c) His father's (d) His own (d) Father Son Select the missing number from the given responses. S7 5 2 4 1 3 4 5
<ul> <li>looking at?</li> <li>(a) His son's. (b) His nephew's</li> <li>(c) His father's. (d) His own</li> <li>(d) Son Frather</li> <li>Son Frather</li> <li>Son Frather</li> <li>By diagram, it is clear that the photo is of his own.</li> <li>Directions (Q.Nos, 37 and 38) Seject the missing number from the given responses.</li> <li>87. 5 4 9 6</li> <li>7 5 2 4</li> </ul>
<ul> <li>Isolding at? <ul> <li>(a) His son's</li> <li>(b) His nephew's</li> <li>(c) His father's</li> <li>(d) His own</li> </ul> </li> <li>(d) Son Father's (d) His own</li> <li>(d) Son Father's Son Fa</li></ul>
<ul> <li>Isolding at? <ul> <li>(a) His son's</li> <li>(b) His nephew's</li> <li>(c) His father's</li> <li>(d) His own</li> </ul> </li> <li>(d) Son Father's (d) His own</li> <li>(d) Son Father's Son Fa</li></ul>
<ul> <li>looking at? <ul> <li>(a) His son's</li> <li>(b) His nephew's</li> <li>(c) His father's</li> <li>(d) His own</li> </ul> </li> <li>(d) Son Frether Son Fret</li></ul>
<ul> <li>Isolding at? <ul> <li>(a) His son's</li> <li>(b) His nephew's</li> <li>(c) His father's</li> <li>(d) His own</li> </ul> </li> <li>(d) Son Frather's (d) His own</li> <li>(d) Son Frather's (d) His own</li> <li>(e) Frather's (d) His own</li> <li>(f) Frather's (f) His own</li> <li>(g) Frath</li></ul>
<ul> <li>looking at? <ul> <li>(a) His son's</li> <li>(b) His nephew's</li> <li>(c) His father's</li> <li>(d) His own</li> </ul> </li> <li>(d) Son Father's (d) His own</li> <li>(d) Son Father's Son Fat</li></ul>



**Question Figure** ) (c) (b)  $\sqrt{64} - \sqrt{36} = 8 - 6 = 2$ Mohan  $\sqrt{81} - \sqrt{25} = 9 - 5 = 4$ DOM 1 km  $\sqrt{144} - \sqrt{16} = 12 - 4 = 8$ 1 km 39. Mitan travelled 12 km southward Answer Figures then turned left and travelled 10 km, then turned left and travelled 12 km. 1 km How far was Mitan from the starting point? North (b) 10 km (a) 8 km (đ) (c) 12 km (d) 14 km South ) (c) ) (b) Ar D North 46. Select the answer figure in which the 43. A solid cube of 4 inches has been painted red, green and black on pair of opposite faces. It has been cut into question figure is hidden/embedded. 12 km 12 km West **Question Figure** one inch cubes. How many cubes have B <sup>i</sup>C only two faces painted? 10 km (a) 8 (b) 16 (c) 24 (d) 32 The required distance is (c)  $n = \frac{4}{2} = 4$  inches AD = BC = 10 km.**Answer Figures** 40. Six friends A, B, C, D, E and F are Hence, number of cubes have only two faces sitting in a row facing East. C is painted between A and E. B is just to the right  $=(n-2)\times 12$ of E but left of D, F is not at the right ≓(4-2)×12 (b) (c) end. Which pair is sitting by the side =24 of D? (b) FA (c) EB (d) FD • (b) (a) CE Three statements are given followed by four conclusions I, II, III and IV. You have to consider the statements A piece of paper is folded and cut as 47. ) (0) shown below in the question figures. From the given answer figures, to be true even if they seem to be at indicate how it will appear opened? when C variance from commonly known facts. You are to decide which of the given **Question Figures** conclusions, if any, follow from the South Indicate your given statements. D answer. Statements The pair EB is setting by the side of D. All dogs are rats. 41. The question below has a statement followed by two assumptions. You have to decide whether the assumption is implied in the All rats are crows. Answer Figure All crows are parrots. Conclusions statement. Indicate your answer. . I. All dogs are parrots. Statement Rich people are more (d) (a) (b) (C) II. Some parrots are dogs. prone to have heart attacks. III. Some crows are dogs. Assumptions ) (a) I. Most of the deaths among rich IV. All rats are dogs. Which of the answer figure is exactly 48. people are due to heart attacks. the mirror image of the given figure, (a) I and II follow when the mirror is held on the line II. Poor people do not have heart (b) I, II and III follow AB? attacks. (c) Either II or IV follows **Ouestion** Figure (a) Only I is implicit (d) Either I or II or III follows (b) Only II is implicit ) (d) (c) Both I and II are implicit (d) Neither I nor II is implicit Answei gure (a) Only I is implicit. Dog 42. Mohan starts from point A and walks 1 km towards South, turns left and walks 1 km. Then, turns left again and walks 1 km. Now, which Cro (b) and walks 1 km. Pantit direction he is facing? ) (d) (a) East  $\parallel \rightarrow$  $\rightarrow \checkmark$ 49, A word is represented by only one set (b) West of numbers as given in any one of the alternatives. The sets of numbers  $|V \rightarrow \times$  $\parallel \rightarrow \checkmark$ (c) North Which answer figure will complete the 45. given in the alternatives are pattern in the question figure? (d) South-West represented by two classes of

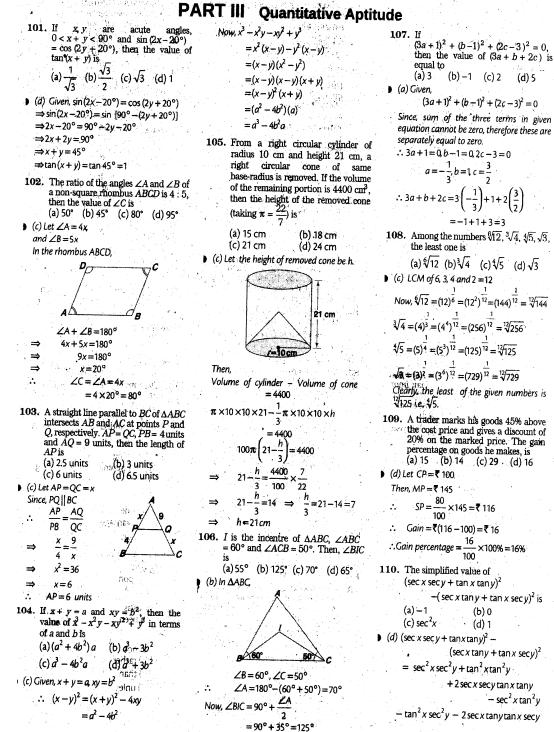


below. The cohumns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its cohumn, e.g., A' can be represented by 55, 67, 86, etc and R' can be represented by 04, 23, 30, etc. Identify she set for the word DOOR. 0  1  2  3  4 1  S  R  F  O  M 3  R  F  O  M  S	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	best depicts the relationship among horses, parrots and birds? (a) (b) (c) (d) (d) (b) (b) (c) (d) (d) Parrots Birds
Directions (Q.Nos. 51 to 55) In these	59. Simon very polite at the	<ul> <li>(a) Tremendous' means very great; extremely</li> </ul>
questions, part of the sentences have errors, and some have none. Find out which part of a	moment, because he wants to make a good impression.	good.
sentence has an error. If there is no error, mark (d) as your answer,	(a) was being (b) has been	Directions (Q.Nos., 66 to 70) In these questions, choose the word opposite in
51. Due to the heavy rains. (a)/ the ship	<ul> <li>(c) is behaving (d) is being</li> <li>(d)</li> </ul>	meaning to the given word.
drowned (b)/in the middle of the ocean. (c) / No error (d)	60. If I don't advantage of this	66. Make (a) Liberate (b) Break
(b) Use sank' in place of 'drowned'	platform, then how dare I be a film maker?	(c) Emancipate (d) Bind
52. Death of (a)/ his only son (h)/made Mohan desolate. (c)/ No error (d)	(a) make (b) take	<ul> <li>(b) 'Make' means to create or prepare.</li> </ul>
(c) Add 'Feel' before 'desolate'.	(c) bring (d) find ▶ (b)	67. Praise (a) Heckle (b) Accuse
53. He fell heavily (a) and this caused	Directions (Q.Nos, 61 to 65) In these	(c) Hate (d) Scold
(b)/ him great pain. (c)/ No error (d) (c) Use 'acute' in place of 'great'.	questions, out of the four alternatives, choose	<ul> <li>(d) 'Praise' means to express your approval or administer.</li> </ul>
54. When I met him (a)/ the couple of	the one which best expresses the meaning of the given word.	68. Terminate
days back (b)/ he was writing a new	61. Meticulous	(a) Hasten (b) Depart
book. (c)/ No error (d) (b) Use 'a' in place of the '.	(a) Correct (b) Clean (c) Methodical (d) Painstaking	(c) Begin (d) Change
55. In his old age, (a)/ a person is likely to	(c) 'Meticulous' means paying careful	(c) Terminate' means to end. 69. Rapidly
get (b)/ more weak day-by-day. (c)/ No error (d)	attention to every detail. 'Methodical'	(a) Lazily (b) Secretly
(c) Use 'weaker' in place of 'more weak'	means done in a careful and logical way. 62. Abundant	(c) Slowly (d) Firmly
Directions (Q.Nos. 56 to 60) In these	(a) Sufficient (b) Plentiful	(c) 'Rapidly' means quickly.     70. Successor
puestions, sentences are given with blanks to e filled in with an appropriate word(s). Four	(c) Significant (d) Vibrant	(a) Failure (b) Loser
iternatives are suggested for each question.	<ul> <li>(b) 'Abundant' means existing in large quantities.</li> </ul>	(c) Predecessor (d) Predator
boose the correct alternative but of the four. 58. Our teacherseveral points before	63. Anticipate	<ul> <li>(c) 'Successor' means a person or thing that comes after somebody/ something else.</li> </ul>
the exams.	(a) Antagonise (b) Expect	'Predecessor' means a person or thing that
(a) cleared off (b) cleared away (c) cleared up (d) cleared out	<ul> <li>(c) Accept (d) Hope</li> <li>(b) 'Anticipate' means to expect something.</li> </ul>	comes before somebody/ something else.
(c) (c) contact of the contact of th	64. Restrict	<b>Directions</b> (Q.Nos. 71 to 75) In these questions, four alternatives are given for the
57. Let me give you	(a) Curtail (b) Prohibit	idiom/phrase underlined in the sentence.
(a) an advise (b) any advice (c) some advice (d) some advises	(c) Retain (d) Retail ▶ (a) Restrict' means to limit size, amount,	Choose the alternative which best expresses the meaning of the idiom/phrase.
(c)	range of something	71. The officer called for an explanation
58. The cart was driven bullocks.	'Curtail' means to limit something.	from the cashier for the shortage of
(a) with (b) off <sup>(1)</sup> (c) to (d) by com	65. Tremendous (a) Awesome (b) Remarkable	cash. (a) asked (b) begged
(c) to (d) by sint	(c) Considerable (d) Excessive	(c) served a notice (d) demanded
WY CLEAR CONTRACTOR CONTRACTOR		(d) Here 'called for' means demanded.



72. The actress took cue from her brother and became successful.	80. Kalidase is <u>the Shakespeare</u> of India. (a) Shakespeare	Directions (Q.Nos. 91 to 100) In the following passage, some of the words
(a) some help (b) a hint	(b) a Shakespeare	have been left out. First read the passage over and try to understand
(c) some money (d) learnt acting	(c) like Shakespeare	what it is about. Then, fill in the
(d). Took cue from ' means to copy or follow.	(d) No improvement	hanks with the help of the alternatives given.
73. We wanted the gift to be a surprise for my mother, but my sister gave the	<ul> <li>(d) No improvement is required.</li> </ul>	Twenty million years ago, our
dame away.	Directions (Q.Nos. 81 to 85) In these	immediate ancestors probably still
(a) lost the game	questions, out of the four alternatives, choose the one which can be	lived in the trees. After we came 91 from the trees, we evolved an upright
(b) gave out the secret (c) gave away the gift	substituted for the given	92: our hands were more useful, being
(d) withdrew from the plan	words/sentence.	23. We possessed agility and an excellent binocular 24. We had, in
(b) 'Gave the game away' means gave out	81. Book giving information about every branch of knowledge,	course of time, <u>95</u> many of the
the secret.	(a) Directory (b) Dictionary	preconditions required for 96 tools.
74. Let us have a heart to heart talk to	(c) Encyclopaedia (d) Dissertation	Moreover, there was now a real 97 in possessing a large brain and 98
solve this problem.	• (c)	communicating complex thoughts.
(a) good talk (b) emotional talk-	82. Member of a tribe that wanders from	Anyway, other things 99 equal, it is better to be smart 100 to be stupid.
(c) frank talk	place to place with no fixed home. (a) Vagabond (b) Nomad	
(d) loving talk	(c) Wanderer (d) Iruant	91. (a) across (b) under
(c) 'Heart to heart talk means frank talk.	<b>b</b> (b)	(c) into
75. His speech <u>fell short</u> on the audience.	83. Fit to be chosen,	(d) down
(a) had no effect	(a) Eligible (b) Capable	) (d)
(b) moved the audience (c) impressed the audience	(c) Suitable, (d) Valuable	92. (a) posture (b) position
(d) was quite short	▶ (a)	(c) pose (d) posterior
(a) To fall short' means to fail to reach the	84. An animal or plant living in or upon another.	(a)
standard or effect that you expected or need-	(a) Master ' (b) Dependant	98. (a) free (b) tight
Directions (Q.Nos. 76 to 80) In these	(c) insect (d) Parasite	(c) loose (d) lazy
questions, a part of the sentence is underlined. Below are given	<b>▶</b> (d)	• (a)
alternatives to the underlined part at	85. Sum of money to be paid for freeing a	94. (a) vision (b) skill
(a), (b) and (c) which may improve	person from captivity.	(c) tools (d) ability
the sentence. Choose the conrect alternative. In case no improvement is	(b) Compensation	<b>)</b> (a)
needed, your answer is (d).	(c) Tribute	95. (a) lost (b) acquired
76. He said that he saw him last year, to	(d) Penalty	(c) demanded (d) forgotten
discuss the documents. (a) met	• (a)	
(b) had seen	Directions (Q.Nos. 86 to 90) In these questions, groups of four words are	96. (a) making (b) doing
(c) seen	given. In each group, one word is	(c) sharpening (d) breaking
(d) No improvement	correctly spelt. Find the correctly spelt word.	▶ (a)
<ul> <li>(a) It should be 'met'.</li> </ul>	and the second	97. (a) use
77. Them shoes are mine.	86. (a) Skaleton (b) Sekeleton (c) Skelaton (d) Skeleton	(b) pride (c) advantage
(a) Those (b) That	▶ (d)	(d) right
(c) Their	87. (a) Mischeivous (b) Mischevous	
(d) No improvement	(c) Mischievous (d) Mischivous	
) (a) It should be Those .		98. (a) in (b) about (c) upon (d) on
78. Unity in diversity is the most	88. (a) Defenitly (b) Definately	<ul> <li>▶ (a)</li> </ul>
noticeable quality of India: (a) popular	(c) Definitely (d) Defenitely	<b>99.</b> (a) was (b) being
(a) popular (b) remarkable	• (c)	(c) been, (d) are
(c) famous	89. (a) Exhilirate (b) Exhilarate	▶ (6)
(d) No improvement	(c) Exhilirer (d) Exhilerate	100. (a) not
(b) it should be 'remarkable'.		(b) rather
79. He is addicted to alcohol and exerts a	90. (a) Maintenance (b) Maintanance	(c) than
bad influence for his family. (a) on (b) in (c) about	(c) Maintenence	(d) unless
(d) No improvement	(d) Maintanence	• (c) X <sup>4</sup> -
(a) it should be 'on '.	▶ (a)	





 $\therefore 3a+1=0, b-1=0, 2c-3=0$ b = 1c = - $\therefore$  3a+b+2c=3 =-1+1+3=3**108.** Among the numbers  $\sqrt[6]{12}$ ,  $\sqrt[3]{4}$ ,  $\sqrt[4]{5}$ ,  $\sqrt{3}$ , the least one is (a)  $\sqrt[6]{12}$  (b)  $\sqrt[3]{4}$  (c)  $\sqrt[4]{5}$  (d)  $\sqrt{3}$ ▶ (c) LCM of 6, 3, 4 and 2 = 12 Now,  $\sqrt[6]{12} = (12)^6 = (12^2)^{12} = (144)^{12} = \sqrt[12]{144}$  $\sqrt[3]{4} = (4)^3 = (4^4)^{12} = (256)^{12} = \sqrt[12]{256}$  $\sqrt[4]{5} = (5)^4 = (5^3)^{12} = (125)^{12} = \sqrt[12]{125}$  $\sqrt{3} = (3)^2 = (3^6)^{\frac{12}{12}} = (729)^{\frac{12}{12}} = \sqrt[3]{729}$ Clearly, the least of the given numbers is \$125 ie, \$5. 109. A trader marks his goods 45% above the cost price and gives a discount of 20% on the marked price. The gain percentage on goods he makes, is (a) 15 (b) 14 (c) 29 (d) 16 (d) Let CP =₹ 100. Then, MP =₹ 145  $SP = \frac{80}{2}$ -×145 =₹ 116 100 Gain =₹(116-100) =₹ 16 : Gain percentage =  $\frac{16}{100} \times 100\% = 16\%$ 110. The simplified value of  $(\sec x \sec y + \tan x \tan y)^2$  $-(\sec x \tan y + \tan x \sec y)^2$  is (a) – 1 (b) 0 (c)  $\sec^2 x$ • (d) 1 (d)  $(\sec x \sec y + \tan x \tan y)^2 (\sec x \tan y + \tan x \sec y)^2$  $= \sec^2 x \sec^2 y + \tan^2 x \tan^2 y$ +2 sec x secy tan x tany  $- \sec^2 x \tan^2 y$ 

(b) –1 (c) 2

(d) 5

 $-\tan^2 x \sec^2 y - 2 \sec x \tan y \tan x \sec y$ 



 $(n-2) \times 180^{\circ} = 120n$ ⇒ 114. Two vessels A and B contain acid and  $= \sec^2 x \sec^2 y + \tan^2 x \tan^2 y$ water mixed in the ratio 2: 3 and 4: 3.  $(n-2)\times 3=2n$ ⇒  $-\sec^2 x \tan^2 y - \tan^2 x \sec^2 y$ In what ratio must these mixtures be 3n - 6 = 2n⇒ mixed to form a new mixture containing half acid and half water?  $= \sec^2 x (\sec^2 y - \tan^2 y)$ n=6 = Hence, number of sides in the polygon is 6. (a) 5:7 (b) 1:2 (c) 2:1 (d) 7:5  $+ \tan^2 x (\tan^2 y - \sec^2 y)$ 118. The perimeter of a rhombus is 40 cm  $= \sec^2 x - \tan^2 x$ (a) Water in vessel A = and the measure of an angle is 60°, then the area of it, is (a)  $100\sqrt{3}$  cm<sup>2</sup> (b) ±1 111. Speed of a boat is 5 km/h in still water Water in vessel B (b) 50 v3 cm<sup>2</sup> and the speed of the stream is 3 km/h. If the boat takes 3 h to go to a place (c)  $160\sqrt{3}$  cm<sup>2</sup> (d) 100 cm<sup>2</sup> And, water in mixture =  $-\frac{1}{2}$ (b) Perimeter of rhombus and come back, the distance of the place is Then, according to the rule of alligation, (a) 3.75 km (b) 4 km (d) 4.25 km (c) 4.8 km (c) Speed of boat, u = 5 km/h Speed of stream, v = 3 km/hIf distance of the place be d, then d d 4a = 40=3 1 a =10 5+3 5-3 ... Required ratio = 14 10 Now, In AADE, d =10:14=5:7 DE = sin 60° 115. The base of a right pyramid is a square of side 40 cm long. If the volume of the pyramid is 8000 cm<sup>2</sup> AD DE 8 2 10 then its height is 3×8 DE =5√3 (b) 10 cm (a) 5 cm -(d) 20 cm (c) 15 cm 
 112. The single discount equivalent to the discount series of 20%, 10%, 5% is

 (a) 11.66%
 (b) 31.6%

 (c) 31.66%
 (d) 32%
 Now, area of rhombus = base × height (a) Volume of Pyramid = Area of base ×  $=AB \times DE$ height =10×5√3  $8000 = 40 \times 40 \times h$ ⇒  $=50\sqrt{3}$  cm<sup>2</sup> ..... h=5cm (b) Discount equivalent to 20% and 10% is =>  $\frac{1}{6}$ , value of x +119. The ratio of the areas of the incircle 116. If  $\frac{x}{2x^2 + 5x + 2}$ X  $(-20 - 10 + \frac{20 \times 10}{20})\%$ and the circumcircle of a square is 100 1. 85 (a) 1:2 (b) 2:3 (c) 3:4 (d) 4:5 is =(-30 + 2)% = -28% (a) Let side of square = a  $(c) - \frac{1}{2}$ (b) -(d) -2 (a) 2 Now, discount equivalent to 28% and 5% ) (b) 28×5 AN (N  $2x^{2} + 5x + 2$ % 100  $2x^{2} + 5x + 2 = 6x$ = =(-33+1.4)% $2x^{2}+2=x$ ÷ =-31.6%  $2(x^2+1)=x$ For circumcircle, radius is given by Hence, required single discount is diagonal av2 a 31.6% 2 2 113. If xy(x + y) = 1, then the value of  $\frac{1}{x^3y^3} - x^3 - y^3$  is For incircle, radius is given by <del>ن</del> 📥  $s = \sqrt{OA^2 - AB^2}$ (a) 0 (b) 1 (c) 3 (d) -2 117. Each internal angle of regular polygon (c) Given, xy(x + y) = 1is two times its external angle. Then, the number of sides of the polygon is ⇒\_\_\_ = x + v(b) 6 (c) 5 (d)7 (a) 8 XV (b) in a regular polygon, Now,  $\frac{1}{x^3y^3}$ Internal angle + External angle =180° 4 -2  $-x^3 - y^3 = (x + y)^3 - (x^3 + y^3)$  $\Rightarrow$  2x + x = 180° (x = external angle) Ratio of the areas of incircle and circumcircle  $=(x+y)^{3}-(x+y)(x^{2}+y^{2}-xy)$  $\frac{180}{-}=60^{\circ}$ = ratio of squares of the radii of incircle and  $=(x+y)[(x+y)^2-(x^2+y^2-xy)]$ circumcircle 3  $2x = 120^{\circ}$  (x = internal angle)  $=(x+y)[x^{2}+y^{2}+2xy-x^{2}-y^{2}+xy]$ =1:2 If there be n sides in the polygon, then =(x + y)(3xy)=3 $(2n-4)90^\circ = 120n$ 



120. The ratio of the sum to the LCM of two natural numbers is 7: 12. If their HCF is 4, then the smaller number is (a) 20 (b) 16 (c) 12 (d) 8 (c) Let the numbers be x and y. Then,  $\frac{x+y}{x+y} = \frac{7}{x+y}$ L 12 Let x + y = 7u, L = 12uAlso, we have H = 4Again, consider x = 3u and y = 4uNow,  $L \times H = x \times y$  $12u \times 4 = 3u \times 4u$ u=4Hence, smaller number  $=3u=3 \times 4 = 12$ **121.**  $\sin^2 5^\circ + \sin^2 6^\circ + ... + \sin^2 84^\circ$  $+ \sin^2 85^\circ =$ (a) 39 (b) 40 (c) 40 (d) 39 **(c)**  $\sin^2 5 + \sin^2 6 + \frac{3}{2} + \sin^2 84 + \sin^2 85$  $=\cos^2 85 + \cos^2 84 + \dots + \sin^2 84 + \sin^2 85$  $=(\cos^2 85 + \sin^2 85)$  $+(\cos^2 84 + \sin^2 84) + \dots 40$  times =1+1+1+ ..... 40 times = 40 122. ABCD is a cyclic trapezium such that  $AD||BC, \text{ if } \angle ABC = 70^\circ$ , then the value of  $\angle BCD$  is 10 (a) 60° (b) 70° (c) 40° (d) 80° ) (b) Draw perpendicular AE L BC. (70 Since, ZABE = 70° ZAEB = 90° ....  $\angle BAE = 20^{\circ}$ Also, ZEAD = 90° Therefore,  $\angle BAD = \angle BAE + \angle EAD$ 12 =20°+90°=110° Now, ABCD is a cyclic quadrilateral. . ∠BAD+∠BCD=180°  $\Rightarrow \angle BCD = 180^{\circ} - 110^{\circ} = 70^{\circ}$ 123. A man sells 320 mangoes at the cost price of 400 mangoes. His gain per cent is (a) 15 (b) 20 (c) 25 (d) 10 ● (c) Let CP of 1 mango = € 110 9 := CP of 400 mangoes = \$4002

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∴ SP of 320 mangoes =₹400<sup>131</sup>
                      400
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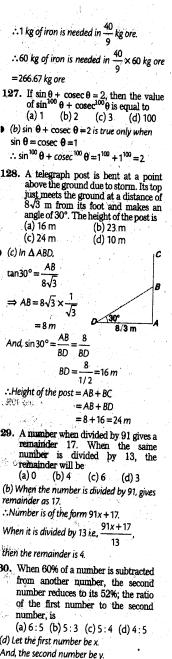
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: SP of 1 mango =
                  320
```

and the second	
en en en son Signa en	
: Gain % = $\frac{-1}{4} \times 100\%$	
-5-4 1000 000	- 4,-
$=\frac{5-4}{4} \times 100\% = 25\%$	
124. The value of the expression	
$(a-b)^2$ $(b-c)^2$	
124. The value of the expression $\frac{(a-b)^2}{(b-c)(c-a)} + \frac{(b-c)^2}{(a-b)(c-q)}$	
(c - a) <sup>2</sup>	1
$+ \frac{(c-a)}{c}$ is	
$+\frac{(c-a)^2}{(a-b)(b-c)}$	
(a) 0 (b) 3 (c) 1/3 (d) 2	
	- 1
(b) $(a-b)^{*}$ $(b-c)^{2}$	
(b) $\frac{(a-b)^2}{(b-c)(c-a)} + \frac{(b-c)^2}{(a-b)(c-a)}$	
$+\frac{(c-a)^2}{(a-b)(b-c)}$	
$+\frac{1}{\sqrt{2}}$	17
(a-b)(b-c)	
$(a-b)^{3} + (b-c)^{3} + (c-c)^{3}$	
$=\frac{(a-b)^3+(b-c)^3+(c-a)^3}{(a-b)(b-c)(c-a)}$	
(a-b)(b-c)(c-a)	
Let $a-b=x, b-c=y, c-a=z$	Ż
Let $a-b=x, b-c=y, c-a=z$	
$\therefore  x+y+z=0$	
$x^{3} + y^{3} + z^{3} = 3xyz$	· .
·· ^ + y + 2 = 5 xyz ·	
$\Rightarrow \frac{x^3 + y^3 + z^3}{xyz} = 3$	1.14
ХуZ	
$\Rightarrow  \frac{(a-b)^3 + (b-c)^3 + (c-a)^3}{(a-b)(b-c)(c-a)} = 3$	
$\Rightarrow \frac{1}{2} + $	
(a-b)(b-c)(c-a)	
125. A can do a certain job in 12 days Rice	
125. A can do a certain job in 12 days. B is 60% more efficient than A. To do the	
some job Balana mould talan	
same job, B alone would take	1.4
(a) 7 days (b) 8 days	12
2	
(c) 10 days (d) 7 days	- 1.
(a) A's one day 's work $=\frac{1}{12}$	
12 +	
· Propage danta in a second c 1 2	
:.B's one day's work = 160% of $\frac{1}{12} = \frac{2}{15}$	
$\therefore$ B alone can complete the work in $\frac{15}{2}$	
2	
1	
$=7\frac{1}{2}$ days	- 0
<b></b>	13
126. An ore contains 25% of an alloy, that	
has 90% iron. Other than this, in the	
remaining 75% of the ore, there is no	
iron. To obtain 60 kg of pure iron, the	$1 = \zeta$
quantity of the ore needed, in	•
kilograms, is approximately	1
	<b>.</b>
	, A
(c) 275.23 (d) 300	- 1

(b) Part of iron in the ore = 90% of

$$=\frac{90}{100}\times\frac{1}{4}=\frac{9}{40}$$

kg of iron is needed in 1 kg ore.



- And, the second number be y. Then, according to the condition, y - 60% x = 52% of yy - 52% of y = 60% of x  $48\% \, of y = 60 \, of x$ 
  - $\frac{x}{-} = \frac{48}{-} = \frac{4}{-}$ y 60 5

Hence, required ratio is 4:5.



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131. If the sum of the two numbers is 120
        and their quotient is 5, then the
difference of the two numbers, is
        (a) 115 (b) 100 (c) 80 (d) 72
(c) Let the two numbers be x and y. Then,
   x + y = 120
                      \frac{x}{-}=5=>x=5y
   and
                    .у.
   Solving these equations, we get
                      x = 100, y = 20
   Then, required difference
                     =100-20=80
1331 The fields of height and the diameter
of a significance is 3:2 and its
volume is 1078 cm<sup>3</sup>, then (taking
\pi = \frac{22}{7}) its height, is
                                 (b) 14 cm
         (a) 7 cm
         (c) 21 cm
                                 (d) 28 cm
(c) Let height of cone = 3x
   and diameter of cone = 2x
   Now, volume =1078
                          \pi r^2 h = 1078
                         x \times x \times 3x = 1078
                    1078 × 7
    ⇒
              x^3 = 343
    -
              x=7
    ⇒
    Hence, height = 3x = 3 \times 7 = 21 cm
 133. A person sold an article at 20% profit
          on the selling price. Afterwards, when
the cost price reduced by 10%, then
he also reduced the selling price by
          10%. His percentage of profit on cost price will be
          (a) 30 (b) 25 (c) 22.5 (d) 12.5
(b) Let SP1=₹100
     Then, profit =₹ 20
                                                 E .,073
     Then, CP_1 =(100 − 20) = ₹ 80
     In the second condition,
             CP_2 = \frac{90}{100} \times 80 = ₹72
               SP_2 = \frac{90}{100} \times 100 = ₹90
     :. Profit percentage = \frac{90-72}{72} \times 100\%
                              =\frac{18}{72} \times 100\% = 25\%
                          \frac{1}{2}, then value of \frac{3x-y}{3x+y} is
                                  (c) \frac{4}{5}
                   4x - 2y = x + 2y
                        3x = 4y
     - L
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-

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:.12 men + 24 women
  Now, \frac{3x-y}{3x+y} = \frac{4y-y}{4y+y} = \frac{3y}{5y} = \frac{3}{5}
                                                                         women + 24 women
135. A girl was asked to multiply a number
       by \frac{7}{8}, instead she divided the number
                                                                          women
                                                           Now.
       by \frac{\cdot}{8}
             and got the result 15 more than
                                                           17 women paint the house in 33 days.
       the correct result. The sum of the
                                                           :.1 women paints the house in 33 × 17 days.
       digits of the number was
                                                           (d) 11
       (a) 4 (b) 8 (c) 6
(d) If number be x, then
                  \frac{33\times17\times2}{99}=\frac{34}{3} days
                              =15
                                                           Hence, \frac{99}{2} women paint three such houses
                    \frac{8x}{2} - \frac{7x}{2} = 15
                     7 .8
                                                            in\frac{34}{3} \times 3 = 34 days.
                      64 - 49
                                                         139. The difference between simple and
                                                                compound interest on a sum of money
at 5% per annum för 2 yr is ₹ 100. The
                           15
                                                                sum of money must be
(a) ₹ 35000 (b) ₹ 41000
   :.Sum of the digits =5 + 6 = 11
                                                                 (c) ₹ 40000 = (d) ₹ 45000
136. The average age of 45 persons is
                                                        ) (c) Using the formula,
        decreased by \frac{1}{9} yr when one of them
                                                            Difference for 2 yr = \frac{PR^2}{100^2}
                                                                                                     5.11
        having 60 yr is replaced by a new
        comer. Then, the age of the newcomer
                                                                              TRX5×5
                                                                             100 ==
        (a) 45 yr (b) 55 yr (c) 59 yr (d) 49 yr
                                                                              100×100
(b) Decrement in the age of new comer
                                                                             P#$40000
                                                            ⇒
                                                         140. A right circular cylinder and a cone
                          x 45 = 5 yr
                       9
      A. B. Barnet
                                                                 have equal base radius and equal heights. If their curved surfaces are in
    Hence, the age of newcomer
                                                                 the ratio 8:5, then the radius of the
                    =60-5=55 yr
                                                                 base to the height are in the ratio
 137. There are in all, 10 balls; some of them are red and the others white.
                                                                 (a) 2:3 (b) 4:3 (c) 3:4 (d) 3:2
                                                         (c) Let radius and height be r and h,
         The average cost of all balls is 7 28. If
                                                            respectively.
         the average cost of red halls is ₹ 25
and that of white halls is ₹ 30, the
                                                            Then, curved surface of cylinder
                                                                                                  8
         number of white balls, is
                                                                     curved surface of cone
                                                                                                   5
                                         (d) 7
         (a) 3 (b) 5 (c) 6
                                                                          2 πm _ 8
(c) Let number of red balls = x
                                                                           \pi r l
     Then, number of white balls =10 - x
    According to the question,
                                                                              1. 5
        10 \times 28 = x \times 25 + (10 - x) \times 30
                                                                              ĥ
                                                                                   16
            280 = 25x + 300 - 30x
              5x = 20
                                                                                   25
               x = 4
                                                                                    16
    Hence, number of white balls
                                                                          h^2 + r^2
                                                                                    25
                    =10 - 4 = 6
                                                                            25h^2 = 16h^2 + 16h^2
                                                             ⇒
  138. Either 8 men or 17 women can paint a
         house in 33 days. The number of days
required to paint three such houses by
12 men and 24 women working at the
                                                                          -9h^2 = 16r^2
                                                             -
                                                                       solution 3h = 4r
                                                             ⇒
                                                                                r_3
         same rate is
                                                                        orbio
                                                                                  =
                                                                       2116 b h 4
         (a) 44 (b) 43 (c) 34 (d) 66
 (c) 8 men ≡17 women
                                                           141. The tangents at two points A and B on
    1 \text{ man} \equiv \frac{17}{8} \text{ women}
                                                                 the circle with centre O intersect at P,
if in quadrilateral PAOB
\angle AOB : \angle APB = 5 : 1, then, measure
     12 men = \frac{17}{8} \times 12 women = \frac{51}{2} women
                                                                  of ZAPB is
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(a) 30° (b) 60° (c) 45° (d) 15°

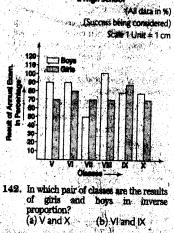
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-21

17



 $(a) \angle PAO = \angle PBO = 90^{\circ}$ (Angle made by tangent and perpendicular at any point A) Now, in quadrilateral APBO, a dina). LAPB+ LPBO+ LBOA+ LOAP =360° ⇒ ∠APB + ∠AOB = 360° - 90° - 90° =180° ⇒∠APB+∠AOB=180°\_\_(i) Also, we have ZAOB: ZAPB=57 ZAOB = 5x LAPB = x Putting these values in Eq. (i), we get  $x + 5x = 180^{\circ}$ \* 6x =180° Sec. 1 = ×=30° Hence, ZAP8=30° Directions (Q.Nos. 142 to 146) Read the following graph carefully and answer the given questions. Bands of August Emminutes in a fligh School



1.18

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capital and taking the

(a) sum of wages paid to labourers

(c) sum of wages, interest, man and

(d) sum of wages, increases, refer and normal profit

supernormal profit

given by

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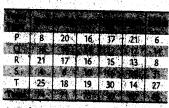
- (c) Vi and Vill (d) Vil and X (b) It is clear from the graph that the results of girls and boys are in inverse proportion for the classes VI and IX. 143. In which class, is the failure of boys the lowest or mil? (a) X (b) IX (c) VIII (d) VI
- (c) in class VIII, the failure of boys is nil.
- 144. In which class, is the result of the girls more than the average result of the boys for the school? (a) VIII (b) X (c) IX (d) VI
- (c) Average result of boys for the school <u>90 + 90 + 50 + 100 + 80 + 80</u>
  - 6 Side & Star <u>490</u> = 81.67
    - 6
- Clearly, for the class IX, the result of girls (= 90%) is more than the average result of boys for the school (=81.67%)
- 145. In which class, is the result of boys less than the overall average result of the girls (a) VII (b) VIII (c) IX (d) X
- (a) Overall average result of the girls
   70+70+70+70+70+70 = 75 6 .....

For the class VII, result of boys (50%) is less than the overall average result of girls (75%).

- 146. In which class, is the difference between the result of girls and that of boys maximum? (a) V (b) ∀H (c) VIII (d) X
- (c) The difference between the results of girls and boys .
- In class V = 90 70 = 20
- In class VI = 90 80 = 10 いり渡
- In class VII = 70-50 = 20
- In class VIII = 100 + 70 = 30
- In class IX = 90 + 80 = 10
- ln class X = 80 70 = 10
- Hence, difference is maximum for class VIII. Directions (Q.Nos. 147 to 150) The following table shows production of cars (in thousands) in a company from 1999 to 2004. Study the table carefully and answer the given questions

## PART IV General Awareness

- 151. Cost of production of the producer is (d) Sum of wages, interest, rent and normal profit. 24 Bally 152. 'Kesari', the newspaper, was started (b) sum of wages and interestioned on
  - by (a) GK Gokhale
    - (b) BG Tilak.
    - (c) Sardar Patel
    - (d) Raja Ram Mohan Roy adal ta la ta safa se la



- 147. In which year, the total production of cars of types P and Q together was equal to the total production of cars of types R and S together? (a) 2000 (b) 2001 (c) 2003 (d) 2004
- (c) In the year 2003, total production of cars of types P and Q together was equal to the total production of cars of types R and S together.
- 148. In which year, the production of all types of cars taken together was approximately equal to the annual average of the total production during the period 1999 to 2004? (a) 1999 (b) 2001 (c) 2003 (d) 2004
- (c) Annual average of the total production during the period 1999 to 2004  $\frac{74 + 71 + 75 + 90 + 80 + 86}{2}$

<u>\_ 476</u> 6 =79.33 6

which is approximately equal to the production of all types of cars taken together in the year 2003.

- 149 The production of which type of cars will 25% of the total production of all 0 otypes of cars during the year 2003?
- (d) 25% of the total production of all types of GAVS #25% of 80 = 20 680
  - which is equal to the production of S type of cars
- 159. There was a continuous increase in production of which type, of cars during the period 1999 to 2004?
  (a) P (b) Q (c) R (d) S
- (d) For S type of cars, the production was in continuous increase.

Rel Wards and Sector Marches Sector

Strand States -

- (b) BG Tilak Keshari is a Marathi Newspaper founded by Lok Nayak Bal Gangadhar Tilak in 1881 with the aim of national awakening
- 158. When the Indian Constitution
  - (a) Tatti August, 1947 (b) 26th November, 1949

  - (c) 26th January, 1950 (d) 2nd October, 1952



(b) 26th November, 1949. The Constitution of India was enacted by Constitution Assembly on 26th November 1949 and came into effect on 26th January, 1950. 154. Which one of the following is the smallest endocrine gland in human body? (a) Adrenal (b) Thyroid (c) Pituitary (d) Pancreas (c) Pituitary 155. Double is a ...... data type. (a) primitive (b) user defined (c) system defined (d) local (a) Primitive 156. Yellow spots on citrus leaves is due to the deficiency of (a) zinc (b) magnesium (c) boron (d) iron (b) Magnesium 157. Rangaswami Cup is associated with (a) wrestling (b) football (c) hockey (d) golf (c) Hockey 158. The working of a rocket is based on the principle of (a) conservation of momentum (b) conservation of mass (c) conservation of energy (d) conservation of angula momentum Momentum. actuary? (a) laldapara (b) Garumara (c) Corbett (d) Chapramari (d) Chapramari forest is located near NH31 connecting North-East with the rest of India. 160. The river which is used for inland waterways in India is (b) Cauvery (a) Ganga (c) Mahi (d) Luni 🕨 (a) Ganga 161. The atmospheric layer, closest to the Earth, is (a) mesosphere (b) hydrosphere (c) troposphere (d) ionosphere • (a) Troposphere is the layer closest to the Earth, approximately 11 km high. Weather occurs only in the troposphere because it contains most of the water vapour. 162. 'Yellow Revolution' is associated with the production of (a) poultry (b) gold (c) sunflower (d) oil seeds (d) Oil seeds. 163. Under the "Indira Gandhi National Old Age Pension Scheme", the

amount of pension for those above 80 years has been increased per month from ₹ 200 to (b)₹400 (a) ₹ 300 (c)₹500 (d) ₹ 1000 ) (c)₹500 164. The which has recently state. overtaken Karnataka for the top rank in the production of bio-fertilizers, is (a) Tamił Nadu (b) Gujarat (c) Maharashtra (d) Punjab ) (a) Tamil Nadu 165. The upper house of the State Legislature in India is called (a) Legislative Council (b) Legislative Assembly (c) Executive Council (d) Governor-in-Council (b) Legislative Assembly 166. Maximum number of sugar factories are located in (a) Uttar Pradesh (b) Tamil Nadu (c) Bihar. (d) Asom ) (a) Uttar Pradesh 167. The All Women Expedition Team of the Indian Air Force, which scaled the Mt Everest sometime back, was headed by (a) Sqn Ldr D Panda (b) Son Ldr Nirupama Pandey (c) Flt Lt Nivedita Choudhary (d) Flt Lt Rajika Sharma (c) Flt. Lt. Nivedita Choudhary 168. While computing national income estimates, which of the following is required to be observed? (a) The value of exports to be added and the value of imports to be subtracted (b) The value of exports to be subtracted and the value of imports to be added (c) The value of both exports and imports to be added (d) The value of both exports and imports to be subtracted (a) The value of exports to be added and the value of imports to sybtracted. 169. If the Prime Minister of India submits his resignation to the President, it will mean the resignation of the (a) Prime Minister only (b) Prime Minister and the Cabinet Ministers (c) entire Council of Ministers (d) Prime Minister, Cabinet Ministers and the Speaker • (c) Entire Council of Minister 170. A fuse wire is made of an alloy of

(a) tin and copper

(c) tin and aluminium

(d) nickel and chromium

(b) tin and lead

learning at (b) Kolkata (a) Multan (c) Alwar (d) Patna 🕨 (d) Patna 172. The energy that can harness heat stored below the Earth's surface, is known as (a) thermal energy (b) nuclear energy (c) tidal energy (d) geo-thermal energy (d) Geo-thermal Energy 173. The temperature of boiling water in a steam engine may be high because (a) there are dissolved substances in water (b) there is low pressure inside the boiler (c) there is high pressure inside the boiler (d) the fire is at very high temperature (c) There is high pressure inside the boiler. 174. Konark, which has famous 'Sun Temple' with wonderful specimens of Hindu architecture, lies in the state of (a) Odisha. (b) Gujarat (c) Karnataka (d) Madhya Pradesh (a) Odisha— Konark which has famous for 13th century 'Sun God Temple' lies in Odisha. Konark is a small town in Puri district of state Odisha, Sixty-five kilometres from Bhubaneswar. 175. AGMARK is a guarantee of standard (a) quality (b) quantity (c) weight (d) size (a) Quality 176. Vector of Kala-azar is (a) Anopheles mosquito (b) Culex mosquito (c) Tse-Tse fly (d) Sand fly (d) Sandfly 177. The World Day to Combat Desertification is observed every year (a) 4th May (b) 17th lune (c) 14th August (d) 3rd October The World Day to Combat (b) Desertification in observed every year on 17th June all over the world. The aim of the United Nations in designating a day of observance is to sensitize the public and policymakers to the increasing dangers of

desertification, land degradation and

drought for the international community.

(b) An alloy of tin and lead.

lead (37%).

Fuse wire is made of tin (63%) and

171. Iltutmish established a centre of

(c) Ropar (d) Kalibangan



<ul> <li>A second sec second second sec</li></ul>	
, 178. In case no party enjoys absolute	(c) Spice Je
majority in the Legislative Assembly	187. India
of a State, the Governor will go by	count
<ul> <li>(a) the advice of former Chief Minister</li> <li>(b) the advice of the Prime Minister</li> </ul>	(a) sta
(c) the advice of the President of India	(b) rei
(d) his own discretion	(c) sta
(d) His own discretion.	(d) No
	🌔 (a) State h
179. The planet that takes 88 days to make one revolution of the Sun is	188. Who w
(a) Mercury (b) Saturn	(a) Yas
(c) Jupiter (d) Mars	(c) Jan
(a) Mercury	<ul> <li>(b) Trishala</li> </ul>
180. The chief raw material used for	189. Equili
manufacturing rayon is	(a) sup
(a) nylon	(b) sup
(b) cellulose	(c) der
(c) silicon	(d) sup
(d) radium and argon	(d) Supply
) (b) Cellulose	190. The thin in the j
181. 'Giddha' is a form of dance associated	(a) AD
with the state of (a) Punjab	(c) AD
(b) Himachal Pradesh	(c) AD 176
(c) Haryana	took place o
(d) Rajasthan	(Haryana)
) (a) Punjab	and Ahma
182. The gas used to dilute oxygen for	considered
breathing by deep sea divers, is	18th century fatalities in a
(a) <b>neo</b> n (b) argon	191. Which
(c) nitrogen (d) helium	ranked
(d) Helium is used in scuba tanks to dilute	years?
oxygen. It is chemically inert, it means it does net participate in chemical reactions.	(a) 200
Another reason is it much less soluble in	(c) 200
water than other gases such as nitrogen. The	(d) The yea
low solubility means it does not enter the	year on reco
bloodstream, even under pressure.	according t Organization
commonly experienced by deep sea divers.	temperature
183. An instrument used to measure	0.01℃ (0.
humidity is (a) anemometer (b) hygrometer	temperature
(c) thermometer (d) pyrheliometer	above 1998.
(b) Hygrometer	192. Cadmiu
184. Fat can be separated from milk in a	(a) Min
cream separator because of	(b) blac
(a) cohesive force	(c) dysle
(b) gravitational force	(d) itai-i
(c) centripetal force	(d) Cadmiun
(d) centrifugal force	itai-itai disea softening of t
) (d) Certur #ugal force	disease is nai
185. The market price is related to	in joints and
3 (a) very short period	as one of the
(b) short period	Japan.
(c) long period (d) very long period	193. The Gr
	Civilizat
(c) Long period	(a) Hara (b) Mob
186. The airways company accurated by South India's 'Sun Group' is	(b) Moh (c) Ropa
(a) Go Air (b) Indi Co	(d) Kalib
(c) Spice Jet (d) Jet Airways	(a) Harappa
	- (w) i with the

<ul> <li>(c) Spice Jet</li> <li>187. India is a secular state because in our country <ul> <li>(a) state has no religion</li> <li>(b) religion has been abolished</li> <li>(c) state patronizes a particular religion</li> <li>(d) None of the above</li> </ul> </li> <li>(a) State has no religion.</li> <li>188. Who was the mother of Mahavira? <ul> <li>(a) Yashoda</li> <li>(b) Trishala</li> <li>(c) Jameli</li> <li>(d) Mahamaya</li> </ul> </li> <li>(b) Trishala</li> <li>189. Equilibrium price is the price when <ul> <li>(a) supply is greater than demand</li> <li>(b) supply is less than demand</li> <li>(c) demand is very high</li> </ul> </li> </ul>	<ul> <li>194. Who invented 'Helicopter'? <ul> <li>(a) Cockrell</li> <li>(b) Brequet</li> <li>(c) Otis</li> <li>(d) Frank Whittle</li> </ul> </li> <li>(b) Louis Brequet had invented helicopter.</li> <li>195. Most of the computers available today are <ul> <li>(a) third generation computers</li> <li>(b) fourth generation computers</li> <li>(c) fifth generation computers</li> <li>(d) sixth generation computers</li> <li>(d) sixth generation computers</li> <li>(e) bth generation computers</li> <li>(f) bth generation computers</li> <li>(f) bth generation computers</li> <li>(f) bth generation computers</li> <li>(g) aixth generation computers</li> </ul> </li> <li>196. Bleaching powder is prepared by passing <ul> <li>(a) chlorine over slaked lime</li> </ul> </li> </ul>
(d) supply is equal to demand	(b) oxygen over slaked lime
(d) Supply is equal to demand.	(c) carbon dioxide over slaked lime
<ul> <li>190. The third battle of Panipat was fought in the year:         <ul> <li>(a) AD 1526</li> <li>(b) AD 1556</li> <li>(c) AD 1761</li> <li>(d) AD 1776</li> </ul> </li> </ul>	<ul> <li>(d) chlorine over quick lime</li> <li>(a) Bleaching powder is actually a mixture of calcium hypochlorite (Ca(ClO)<sub>2</sub>) and the basic chloride CaCl<sub>2</sub> · H<sub>2</sub>O with some slaked</li> </ul>
<ul> <li>(c) AD 1761— The third Battle of Panipat took place on 14th January 1761, at Panipat (Haryana) between Maratha confederacy and Ahmad Shah Abdali. This battle is considered as one of the largest fought in 18th century and has the largest number of fatalities in a single day.</li> <li>191. Which of the following years has been ranked as one of the three warmest years?</li> </ul>	<ul> <li>lime, Ca(OH)<sub>2</sub>: Ca(OH)<sub>2</sub> + Cl<sub>2</sub> → CaOCl<sub>2</sub> + H<sub>2</sub>O</li> <li>197. Gas released during Bhopal tragedy was <ul> <li>(a) sodium isothiocyanate</li> <li>(b) potassium isothiocyanate</li> <li>(c) ethyl isothiocyanate</li> <li>(c) ethyl isothiocyanate</li> </ul> </li> <li>It occorred on the night of December 2-3,</li> </ul>
(a) 2006 (b) 2008	1984 the Union Carbide Indian Limited
<ul> <li>(c) 2009</li> <li>(d) 2010</li> <li>(d) The year 2010 ranked as the warmest year on record together with 2005 and 1998, according to the World Meterological Organization. In 2010, global average temperature was 0.53° (0.95° F). This value is 0.01°C</li> <li>(0.02°F) above the nominal temperature in 2005 and 0.02°C (0.05°F) above 1998.</li> </ul>	<ul> <li>(UCL)" pesticide plant in Bhopal, Madhya Pradech India.</li> <li>198. (National Botanical Garden' is located at <ul> <li>(a) Shimla</li> <li>(b) Kolkata</li> <li>(c) Lucknow</li> <li>(d) Bengaluru</li> </ul> </li> </ul>
	▶ (b) Kolkata
192. Cadmium pollution is associated with: (a) Minamata disease (b) black foot disease (c) dyslexia (d) itai-itai	199. October and November months give more rainfall to (a) Malwa plateau (b) Chhota Nagpur plateau (c) Eastern hills
<ul> <li>(d) Cadmium pollution is associated with itai-itai disease. Cadmium poisoning causes softening of the bones and kidney failure. The disease is named for the severe pain caused in joints and spine. Itai-itai disease is known as one of the four big pollution-diseases of Japan.</li> <li>193. The Great Bath of Indus Valley Civilization is found at (a) Harappa</li> </ul>	<ul> <li>(d) Coromandal coast</li> <li>(d) The Coromandal Coast falls in the rain shadow of the western ghats and receives a less rainfall during the summer South-West monsoon, which contributes heavily to tauffall in the rest of India. The region averages 800 mm/yr, most of which falls between October and December.</li> <li>200. Which one of the following is</li> </ul>
(b) Mohen-io-daro	considered as the nature's radar?

- ch one of the following is idered as the nature's radar? (a) Hippopotamus (b) Pigeon (c) Vulture (d) Owl
- (c) Vulture