SSC CGL QUESTION PAPER

(April 21, 2013) (Evening Shift)

PART - A : GENERAL INTELLIGENCE & REASONING

Directions: In question nos. 1 and 2, which of the following interchange of signs would make the given equation correct?

- 1. $10 + 10 \div 10 10 \times 10 = 10$
 - (A) + and -
- (B) + and ÷
- (C) + and ×
- (D) ÷ and +
- 2. $(8-8) + 8 \times 32 = 64$
 - (A) x, +, -
- (B) -, ÷, +
- (C) +, ÷, +
- (D) +, ÷, ×
- 3. If 'R' stands for '-', 'A' stands for '+', 'B' stands for '+' and 'C' stands for 'x', then what is the value of the given equation? (BODMAS rule will not be applicable)
 - 25 A 37 C 2 B 4 R 1 = ?

 - (A) 32 (B) 35
- (C) 30
- (D) 27

Directions: In question nos. 4 to 9, select the related letter/word/number from the given alternatives.

- 4. Chisel: Sculptor: Harrow:?
 - (A) Gardener
- (B) Mason
- (C) Blacksmith
- (D) Guard
- 5. Moon : Satellite :: Earth : ?
 - (A) Sun
- Planet
- (C) Solar system
- (D) Round
- 6. BJCI : JBIC :: CXDW : ?
 - (A) JCDU
- (B) BCJU
- (C) EVFU
- (D) XCWD
- 7. AB: NO:: LM:?
 - (A) OL
- (B) KP
- (C) PK
- (D) YZ
- 8. AG: IO:: EK:? (A) LR
- (B) MS
- (C) PV
- (D) SY
- 9. 25 : 175 :: 32 : ?
 - (A) 150
- (B) 170°
- (C) 162 (D) 160

Directions: In question nos. 10 to 15, select the one which is different from the other three responses.

- 10. (A) Shimla

 - (C) Ooty
- 11. (A) Foal
 - (C) Lamb
- 12. (A) BADC (C) VUST
- 13. (A) DCFG
 - (C) JILM
- 14. (A) (1, 0)
 - (C) (3, 8)
- 15. (A) (96, 24)
 - (C) (81, 54)

- (B) Darjeeling
- (D) Agra
- (B) Hen
- (D) Leveret
- (B) XWZY
- (D) NMPO
- (B) FEHI
- (D) HGJL
- (B) (2, 3)
- (D) (4, 27)
- (B) (39, 18)
- (D) (82, 64)
- 16. Which one of the given responses would be a meaningful order of the following words in ascending order?
 - Accomodation
- 2. Perception
- 3. Scheme formation 4. Assimilation
- Sensation (A) 1, 2, 3, 5, 4
 - (B) 5, 2, 3, 4, 1
- (C) 5, 1, 4, 2, 3
- (D) 5, 2, 4, 3, 1
- 17. Which of the given responses would be a meaningful order of the following starting from the inner layer?
 - 1. Hydrosphere
- 2. Atmosphere
- 3. Biosphere
- 4. Lithosphere
- (A) 4, 1, 3, 2 (C) 3, 1, 2, 4
- (B) 2, 4, 3, 1 (D) 1, 2, 3, 4

Directions: In question nos. 18 to 21, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 18. EJO, FKP, GLQ, HMR, ?
 - (A) ABC
- (B) DEF
- (C) MNO
- (D) INS

- 19. BOCNDME??
 - (A) LF
- (B) OP
- (C) K L
- (D) E F
- **20.** 7, 2 = 59; 5, 3 = 28; 9, 1 = 810; 2, 1 = 13;
 - 5, 4 = ?
 - (A) 19
- (B) 9
- (C) 20
- (D) 239
- 21. 120, 440, 960, 1680, ?
 - (A) 2600
- (B) 3240
- (C) 3040
- (D) 2400

Directions: In question nos. 22 to 24, select the missing number from the given responses.

- 22. 81 64 16 4 9 49 36 16 25
 - 108 96 ? (A) 230 (B) 140 (C) 120 (D) 410
- 23. 25 5 5 30 5 6 35 ? 5
 - (A) 5 (B) 4 (C) 6 (D) 7
- 24. 24 51 2 4 6 5 7 5 53 211 ?
 - (A) 135 (B) 235 (C) 347
- 25. G is fatter than H but not as fat as M. Q is also not as fat as M. Who is the most lean person in the group?
 - (A) O
- (B) H (C) G
- (D) M
- 26. A man walks 15 metres south. Then turning to his right he walks 15 metres. Then turning to his left, he walks 10 metres. Again turns to his left and walks 15 metres. How far is he from his initial position?
 - (A) 10 m
- (B) 25 m
- (C) 15 m
- (D) 60 m

- 27. There are five buses M, N, O, P, Q in a row on a road. Bus M is standing at the front and Q is standing at the back end. Bus N stands between M and O. Bus P stands between O and Q. Which bus is in the middle of the five?
 - (A) M (B) P
- (C) N
- (D) O

Directions: In question nos. 28 to 30, from the given alternative words, select the word which cannot be formed using the letters of the given word.

- 28. DISTANCE
 - (A) DANCE
- (B) STAND
- (C) SANE
- (D) TEASE
- 29. RESURRECTIONIST
 - (A) TOURIST
- (B) NOISE
- (C) SORCERER
- (D) TENDER
- 30. COMMERCIALISM
 - (A) CROME
- (B) LANCER
- (C) MISER
- (D) OSCAR
- 31. If DIVINE is coded as AFSFKB, then POWERFUL is coded as
 - (A) XLHOJVIM
- MLTBDCRI
- (C) MLWBOCRI
- (D) HLTBNCRI
- 32. If NOTE is written as PQVG, then TIME is written as
 - (A) VOOG
- (B) VKOG
- (C) VOKG
- (D) VGKO
- 33. If SMART is coded as UKCPV, then WONDER is coded as
 - (A) YMPPRT
- (B) YMPBGP
- (C) YMPBFP
- (D) YMBPPG

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- 34. If '+' stands for 'multiplication', '<' stands for 'division', '÷' stands for 'subtraction', '-' stands for 'addition' and 'x' stands for 'greater than'. identify which expression is correct.
 - (A) $20-4 \div 4 + 8 < 2 \times 26$
 - (B) $20 \times 8 + 15 < 5 \div 9 8$
 - (C) $20 < 2 + 10 \div 4 6 \times 100$
 - (D) $20 < 5 + 25 \div 10 2 \times 96$
 - 35. One day, Nita left home and cycled 10 km southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometres will she have to cycle to reach her home straight?
 - (A) 10 km
- (B) 15 km
- (C) 20 km
- (D) 25 km
- 36. Rajat moves from his office to the canteen straight at a distance of 12 metres. Then he turned left and walked for 2 metres. Then he turns left again and walks straight for 12 metres. How far is he from his office?
 - (A) 10 metres
- (B) 12 metres
- (C) 8 metres
- (D) 2 metres

Directions: In question nos. 37 and 38, two/four statements are given followed by two/four conclusions I, II, III and IV. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

- 37. Statements I. All apples are bananas.
 - All bananas are sweet.
 - Conclusions : I. Some apples are sweet.
 - Some bananas are apples.
 - (A) Conclusion I follows.
 - (B) Conclusion II follows.
 - (C) Either conclusion I or II follows.
 - (D) Both conclusions I and II follow.

- 38. Statements : 1. All metals are silver.
 - 2. All silver are diamond.
 - 3. Some diamonds are gold.
 - 4. Some gold are marbles.
 - Conclusions: I. Some gold are metals.
 - II. All metals are diamond.
 - III. Some silver are marble.
 - IV. Some gold are silver.
 - (A) Only conclusion I follows.
 - (B) Only conclusion II follows.
 - (C) Only conclusion III follows.
 - (D) Only conclusion IV follows.
- 39. Which of the following cubes can be created by folding the given figure?

Question figure



AT B

(A)

Answer figures





(B)



(C)



40. Two positions of a dice are given. Which number would be at the top when bottom is 2 ?





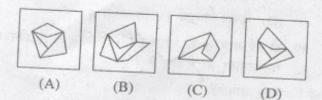
- (A) 4
- (B) 1
- (C) 5
- (D) 6

41. Identify the response figure from which the question figure's pieces have been cut.

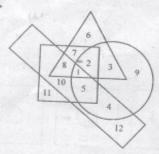
Question figure



Answer figures



42.



In the above figure, the circle stands for employed, the square stands for social worker, the triangle stands for illiterate and the rectangle stands for truthful. Employed, truthful and illiterate social workers are indicated by which region?

(A) 5 (B) 4

(C) 2

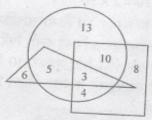
(D) 1

43. Find the missing number.



(B) 45 (C) 47 (D) 57

44.



In the above diagram, parallelogram represents women, triangle represent the sub-inspectors of police and circle represents the graduates. Which numbered area represents women graduate sub-inspectors of police?

(A) 5

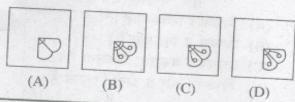
(B) 3 (C) 8 (D) 13

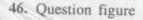
Directions: In question nos. 45 and 46, which answer figure will complete the pattern in the question figure?

45. Question figure



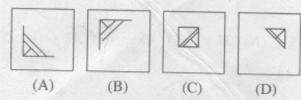
Answer figures







Answer figures

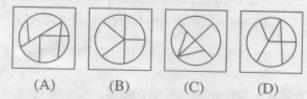


 From the given answer figures, select the one in which the question figure is hidden/ embedded.

Question figure

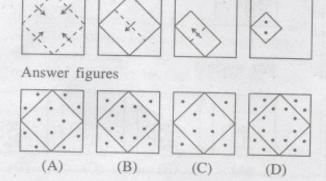


Answer figures



48. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures

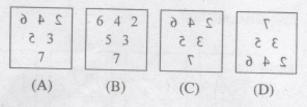


49. Which of the answer figures is exactly the mirror image of the given pattern of numbers when the mirror is held at MN?

Question figure



Answer figures



50. 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., 'B' can be represented by 01, 31 etc. and 'P' can be represented by 67, 75 etc. Similarly, you have to identify the set for the word 'CARD'.

MATRIX I

	0	1	2	3	4
0	A	В	C	D	E
1	D	C	В	A	E
2	В	A	D	C	E
3	D	В	C	A	E
4	C	D	A	E	В

MATRIX II

	-	_			
	5	6	7	8	9
5	P	Q	R	S	T
-	Q		15.00	7.7	
7	P	T	R	S	Q
8	Q	S	P	R	T
9	T	P	S	Q	R

(A) 32, 00, 56, 10

(B) 40, 21, 68, 44

(C) 11, 33, 57, 22

(D) 02, 42, 77, 20

FOR VISUALLY HANDICAPPED CANDIDATES ONLY.

Directions: In question nos. 39 to 41, select the related word/letters/number from the given alternatives.

- 39. Violet Yellow; Blue Red; Indigo ?
 - (A) White
- (B) Black
- (C) Yellow
- (D) Orange
- 40. If FIRE = DGPC, SHOT = ?
 - (A) BCDF
- (B) QFMR
- (C) QCMP
- (D) HSQF
- 41. 940 : 5 :: 376 : ?
 - (A) 3 (B) 2
- (C) 6
- (D) 5

Directions: In question nos. 42 to 44, find the odd word/letters/number pair from the given alternatives.

- 42. (A) January
- (B) July
- (C) August
- (D) November
- 43. (A) OCKN
- (B) WRIL
- (C) NPOS
- (D) ORNK
- 44. (A) (28, 9)
- (B) (31, 10)
- (C) (34, 11)
- (D) (36, 12).
- 45. Which of the given responses would be a meaningful order of the following words in ascending order?
 - 1. Infant 2. Adolescent 3. Foetus
 - 4. Child 5. Adult
 - (A) 3, 1, 4, 5, 2
- (B) 3, 4, 1, 5, 2
- (C) 3, 1, 4, 2, 5
- (D) 3, 1, 2, 5, 4
- 46. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
 - b _ aacba _ bca _ cb _ a _ caa
 - (A) cabab
- (B) babcb
- (C) caaab
- (D) cabac

- 47. Find the missing number of the series from the given responses.
 - 6, 12, 20, 30, ?
 - (A) 40
- (B) 42
- (C) 49
- (D) 38
- 48. From the given alternative words, select the word which cannot be formed using the letters of the given word:

RECREATION

- (A) CREATE
- (B) RATIO
- (C) RADIANT
- (D) REACTION
- 49. Which of the following interchange of signs would make the given equation correct?

$$16 - 8 \div 4 + 5 \times 2 = 8$$

- (A) ÷ and ×
- (B) and ÷
- (C) ÷ and +
- (D) and x
- 50. One statement is given followed by two conclusions I and II. You have to consider the statement to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Statement : It is risky to get down from the running bus.

- Conclusions: I. All those who get down from the running bus take the risk of being hurt.
 - Generally, people do not like to get hurt.
- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Both conclusions I and II follow.
- (D) Neither conclusion I nor II follows.

PART - B : GENERAL AWARENESS

- 51. Solids which conduct electricity at higher temperature but not at lower temperature are called (A) super-conductor (B) metallic-conductor (C) semi-conductor (D) insulator 52. Which one of the following has greatest mass? (A) electron (B) proton (C) neutron (D) hydrogen nucleus 53. A television channel is characterised by (A) frequency of transmitted signal (B) velocity of transmitted signal (C) physical dimension of television screen (D) size of picture tube 54. The first computer mouse was built by (A) Douglas Engelbart (B) William English (D) Robert Zawacki (C) Oaniel Coogher 55. An organization's profitability depends on (A) Quality of data processed (B) Quantity of data processed (C) Speed of processing the data (D) Both (A) and (C) 56. The density of water is 1 g/cc. This is strictly valid (A) 0°C (B) 4°C (D) 100°C (C) 25°C 57. The process of photosynthesis involves conversion (A) chemical energy into radiant energy (B) chemical energy into mechanical energy (C) solar energy into chemical energy (D) mechanical energy into solar energy 58. A colloidal system in which a liquid is dispersed in a liquid is called (A) gel (B) emulsion (D) precipitate (C) sol 59. The antiseptic compound present in dettol is (A) Iodine (B) Enloroxylenol (C) Biothional (D) Cresol 60. As per the TRIPS Agreement-1994, a good originating from a region with specific character/ quality/reputation is covered/to be protected under the IPR as (A) Patent (B) Trademark (C) Trade secret (D) GI (Geographical Indicator) 51. Which of the following crop cultivation is banned by the Hon'ble Supreme Court of India? (A) Lathyrus (Khesari)
- 62. Ice glacier's melting is a common phenomenor. linked to the rise in seawater level. The glaciers are predominantly present in (A) Greenland (B) Antarctica (C) Himalayas (D) Arctic 63. Who is known for establishing the "Anand Van"? (A) Jubilant Buddha (B) H. N. Bahuguna (C) Baba Amte (D) Motilal Nehru 64. The civilian Airport of highest altitude is in (A) Tibet (B) Nepal (C) India (D) China 65. Genomic (DNA) studies in camel have been completed recently by the scientists of (A) South Africa (B) India (C) China (D) Pakistan 66. International Simon Bolivar Prize was recently awarded to Aung San Suu Kyi by the government of (A) Mauritius (B) China (C) Venezuela (D) Cuba 67. BCCI conferred "Col. C. K. Naydu Lifetime Achievement Award" during 2012 to (A) Sachin Tendulkar (B) M. S. Dhoni (C) VVS Laxman (D) Sunil Gavaskar 68. Air quality depicting PM 2.5 is more hazardous to (A) Archaeological Monuments (B) National Parks (C) Botanical Gardens (D) Old Men and Women 69. Which of the following is not a fundamental right as per the Indian Constitution? (A) Right to Education (B) Right to Information (C) Right to Speech (D) Right to Life 70. Who is custodian of the Indian Constitution? (A) President of India (B) Chief Justice of India (C) Prime Minister of India (D) Chairman of Rajya Sabha 71. Piped Natural Gas (PNG) is used for (A) Mining (B) Welding (C) Anaesthesia (D) Cooking 72. Greenpark Stadium is in (A) Bengaluru (B) Dehradun (C) Chandigarh (D) Kanpur 73. Rowlatt Act 1919 was enacted during the period of

(A) Lord Chelmsford

(C) Lord Minto

(B) Genetically modified brinjal

(C) Bt cotton for export

(D) Bt cotton for local use

(B) Lord William

(D) Lord Bentinck

SSC CGL 21 April 2013 Question Paper (Evening Shift)

 Panchayati Raj System was pair of states 	as implemented first in the	87. Buddha, Dhamma and Sangha together are known
(A) Andhra Pradesh and	d Rajasthan	dS
(B) Assam and Bihar		(A) Triratna (B) Trivarga (C) Trisarga (D) Trimurti
(C) Arunachal Pradesh(D) Punjab and Chandig	and Uttar Pradesh	(C) Trisarga (D) Trimurti 88. Who was called Lichchavi Dauhitra?
75. Human Environment Con		(A) Chandragupta I (B) Skandagupta
(A) Stockholm	(B) Paris	(C) Kumaragupta (D) Samudragupta
(C) Geneva	(D) Australia	89. Which hill station is called as the 'Oueen of the
76. 'Gold' is mainly related to (A) Local market	(B) National made	Satpuras
(C) International market	(D) Regional market	(A) Pachmarhi (B) Nilgiri
77. Bilateral monopoly refers	to the market situation of	(C) Mahenderagiri (D) Cardamom
(A) two sellers, two buy	ers	90. Which national highway connects Delhi and Kolkata via Mathura and Varanasi?
(B) one seller and two b (C) two sellers and one l	uyers buver	(A) NH 4 (B) NH 2
(D) one seller and one be	uyer	(C) NH 10 (D) NH 6
 The economist who believed impossible and that market 	et mechanism has a built	91. The country where drip irrigation is more efficiently used is
in regulatory system to me (A) J. M. Keynes (eet any ups and downs	(A) India (B) Israel (C) Sri Lanka (D) England
(C) J. B. Say ((D) Galbraith	92. Which of the following is an endangered species?
79. Constituent Assembly of	India was formulated on	(A) Black buck (B) Blue sheep
the recommendation of		(C) Gangetic dolphin (D) Mithun
(C) August Offer (B) Cripps Mission D) Cabinet Mission	93. Of the following man-made disasters, which is
80. Which of the following is	an essential element of	socially induced ? (A) Debris Avalanche
the state ?		(B) Salt Water Intrusion
(A) Sovereignty ((C) Territory (D) All these	(C) Arson
81. Which has become a l	egal right under 44th	(D) Ozone depletion
Amendment ? (A) Right to Education		94. Which one of the following endocrine gland is
(B) Right to Property		situated in the neck? (A) Pancreas (B) Thyroid
(C) Right to Judicial Ren	nedies	(C) Pituitary (D) Adrenals
(D) Right to Work	manda and And Dist	95. The seat of intelligence is situated in the
 By which Constitution An Property ceased to remain: 	a fundamental right to	(A) cerebrum (B) cerebellum
(A) 44th (I	B) 42nd	(C) medulla (D) thalamus
	D) 45th	96. What is the Normal Blood Volume in human adult? (A) One litre (B) Three litres
83. Who said "Truth is the ul God"?		(C) Five litres (D) Seven litres
(A) Swamy Vivekananda		97. The fasting blood glucose level in adults in
(B) Rabindra Nath Tagoro(C) M. K. Gandhi	e	(A) 200
(D) Radhakrishnan		(A) 200 (B) 160 (C) 100 (D) 60
84. Which of the following trib	es is associated with the	98. Entomology is the study of
Tana Bhagat, movement?	DESCRIPTION OF THE PROPERTY OF	(A) Birds (B) Insects
(C) Santhal (I		(C) Fossils (D) Fungi
35. Who founded the Naujawar		99. Exobiology is a science that deals with
(A) B. C. Pal		(A) extinct forms (B) life in other planets
(B) G. Subramania Iyer (C) Sardar Bagat Singh		(C) life in the outer space
(D) Rukmani Lakshmipath		(D) life in marine habitat
6. The Narendra Mandal or C	hamber of Princes was	100. In radio-communication, the signals emitted by
inaugurated in 1921 by (A) Lord Curzon (B)	3) Lord Wellesley	transmitting antenna are reflected on
(C) Duke of Cannaught (D	Duke of Wellingdon	(A) stratosphere (B) ozonosphere (C) ionosphere (D) troposphere

PART - C : QUANTITATIVE APTITUDE

- 101. ABCD is a cyclic trapezium with AB || DC and AB diameter of the circle. If $\angle CAB = 30^{\circ}$ then ZADC is
 - (A) 60°
- (B) 120°
- (C) 150°
- (D) 30°
- 102. ABC is a triangle. The bisectors of the internal angle $\angle B$ and external angle $\angle C$ intersect at D. If $\angle BDC = 50^{\circ}$, then $\angle A$ is
 - (A) 100°
- (B) 90°
- (C) 120°
- (D) 60°
- 103. AB is the chord of a circle with centre O and DOC is a line segment originating from a point D on the circle and intersecting AB produced at C such that BC = OD. If $\angle BCD = 20^{\circ}$, then $\angle AOD = ?$
 - (A) 20°
- (B) 30°
- (C) 40°
- (D) 60°
- 104. In a circle of radius 17 cm, two parallel chords of lengths 30 cm and 16 cm are drawn. If both the chords are on the same side of the centre, then the distance between the chords is
 - (A) 9 cm
- (B) 7 cm
- (C) 23 cm
- (D) 11 cm
- 105. If $\sin (A B) = \frac{1}{2}$ and $\cos (A + B) = \frac{1}{2}$ where A > B > 0 and A + B is an acute angle, then the value B is

- 106. The fifth term of the sequence for which $t_1 = 1$, $t_2 = 2$ and $t_{n+2} = t_n + t_{n+1}$, is

- (A) 5 (B) 10 (C) 6 (D) 8
- **107.** If $(x + 7954 \times 7956)$ be a square number, then the value of 'x' is
 - (A) 1
- (B) 16
- (C) 9
- (D) 4
- 108. A can do a piece of work in 12 days while B alone can do it in 15 days. With the help of C they can finish it in 5 days. If they are paid ₹ 960 for the whole work how much money A gets?
 - (A) ₹ 480
- (B) ₹ 240
- (C) ₹ 320
- (D) ₹ 400
- 109. Ronald and Elan are working on an Assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan takes 5 hours to type 40 pages. How much time will they take, working together on two different computers to type an assignment of 110 pages?
 - (A) 7 hrs. 30 min.
- (B) 8 hrs.
- (C) 8 hrs. 15 min.
- (D) 8 hrs. 25 min.
- 110. One man, 3 women and 4 boys can do a piece of work in 96 hours, 2 men and 8 boys can do it in 80 hours, 2 men and 3 women can do it in 120 hours. 5 men and 12 boys can do it in
 - (A) $39\frac{1}{11}$ hours (B) $42\frac{7}{11}$ hours
 - (C) $43\frac{7}{11}$ hours (D) 44 hours
- 111. ABC is a right angled triangle, B being the right angle. Mid-points of BC and AC are respectively B' and A'. The ratio of the area of the quadrilateral AA' B'B to the area of the triangle ABC is
 - (A) 1:2
- (B) 2:3
- UE) 3:4
- (D) None of the above

- 112, A square ABCD is inscribed in a circle of unit radius. Semicircles are described on each side as a diameter. The area of the region bounded by the four semicircles and the circle is (A) 1 sq. unit (B) 2 sq. unit (C) 1.5 sq. unit (D) 2.5 sq. unit (C) 2200 113. If the perimeters of a rectangle and a square are equal and the ratio of two adjacent sides of the rectangle is 1:2 then the ratio of area of the rectangle and that of the square is (A) 1:1 (B) 1:2 (C) 2:3 (D). 8:9 114. The interest on a certain sum of money is ₹ 22 and the discount on the same sum for the same time and at the same rate is ₹20, find the sum. (A) ₹ 220 (B) ₹ 200 / (A) 45 (C) ₹210 (D) ₹ 212
- 115. A retailer purchased radiosets at the rate of ₹ 400 each from a wholesaler. He raised the price by 30% and then allowed a discount of 8% on each set. His profit will be
 - (A) 19%
- (B) 78.4%
- (C) 22%
- (D) 19.6%
- 116. A reduction in the price of apples enables a person to purchase 3 apples for ₹1 instead of ₹ 1.25. What is the % of reduction in price (approximately)?
 - (A) 20
- (B) 25
- (C) 30
- (D) 33¹/₃
- 117. ₹ 700 is divided among A, B, C in such a way that the ratio of the amounts of A and B is 2:3 and that of B and C is 4:5. Find the amounts in ₹ each received, in the order A, B, C.
 - (A) 150, 250, 300
- (B) 160, 240, 300
- (C) 150, 250, 290
- (D) 150, 240, 310

- No. 1845- 95=8 118. The ratio of monthly incomes of A, B is 6:5 and their monthly expenditures are in the ratio 4:3. If each of them saves ₹ 400 per month, find the sum of their monthly incomes.
 - (A) 2300
- (B) 2400
- (D) 2500
- 119. A and B have together three times what B and C have, while A, B, C together have thirty rupees more than that of A. If B has 5 times that of C, then A has
 - (A) ₹ 60
- (C) ₹ 75
- 120. A cricket player after playing 10 tests scored 100 runs in the 11th test. As a result, the average of his runs is increased by 5. The present average of runs is
 - (B) 40
- (C) 50
- (D) 55
- 121. A fruit seller buys some oranges at the rate of 4 for ₹ 10 and an equal number more at 5 for ₹ 10. He sells the whole lot at 9 for ₹ 20. What is his loss or gain per cent?
 - (A) Loss per cent 119 %
 - (B) Gain per cent 119 %
 - (C) No loss or no profit
 - (D) Loss per cent 2%
- 122. 15 litres of a mixture contains alcohol and water in the ratio 1:4. If 3 litres of water is mixed in it, the percentage of alcohol in the new mixture will be
 - (A) 15
- (B) 16²/₃
- (C) 17
- (D) $18\frac{1}{3}$
- 123. A man rides at the rate of 18 km/hr, but stops for 6 mins. to change horses at the end of every 7th km. The time that he will take to cover a distance of 90 km is
 - (A) 6 hrs.
- (B) 6 hrs. 12 min.
- (C) 6 hrs. 18 min.
- (D) 6 hrs. 24 min.

- 124. A man rows down a river 15 km in 3 hrs. with the stream and returns in $7\frac{1}{2}$ hrs. The rate at which he rows in still water is
 - (A) 2.5 km/hr
- (B) 1.5 km/hr
- (C) 3.5 km/hr
- (D) 4.5 km/hr
- 125. There is 100% increase to an amount in 8 years, at simple interest. Find the compound interest of ₹ 8000 after 2 years at the same rate of interest.
 - (A) ₹ 2500
- (B) ₹ 2000
- (C) ₹ 2250
- (D) ₹ 2125
- 126. If the number p is 5 more than q and the sum of the squares of p and q is 55, then the product of p and q is
 - (A) 10 A
- (B) -10
- (C) 15 TA
- (D) -15
- 127. If $a + \frac{1}{a-2} = 4$, then the value of

$$(a-2)^2 + \left(\frac{1}{a-2}\right)^2$$
 is

- (A) 0 (B) 2
- (C) -2
- (D), 4
- 128. If a + b + c = 2s, then

$$\frac{(s-a)^2 + (s-b)^2 + (s-c)^2 + s^2}{a^2 + b^2 + c^2}$$
 is equal to

- (A) $a^2 + b^2 + c^2$ (B) 0
- (C) 1
- (D) 2
- 129. If xy(x + y) = 1 then the value of

$$\frac{1}{x^3 y^3} - x^3 - y^3$$
 is

- (A) 3 (B) -3 (C) 1 (D) -1
- 130. If $a^3 b^3 c^3 = 0$ then the value of $a^9 - b^9 - c^9 - 3a^3b^3c^3$ is

 - (A) 1 (B) 2
- (C) 0
- (D) --1

- 131. The minimum value of (x-2)(x-9) is
 - (A) $-\frac{11}{4}$ (B) $\frac{49}{4}$
- (D) $-\frac{49}{4}$
- 132. If x + y + z = 6 and $x^2 + y^2 + z^2 = 20$ then the value of $x^3 + y^3 + z^3 - 3xyz$ is
 - (A) 64 (B) 70 (C) 72
- (D) 76
- 133. The third proportional to

$$\left(\frac{x}{y} + \frac{y}{x}\right)$$
 and $\sqrt{x^2 + y^2}$ is

- (A) xy (B) \sqrt{xy} (C) $\sqrt[3]{xy}$ (D) $\sqrt[4]{xy}$
- (D) 4√xy
- 134. In a triangle ABC, the side BC is extended up to D. Such that CD = AC, if $\angle BAD = 109^{\circ}$ and $\angle ACB = 72^{\circ}$ then the value of $\angle ABC$ is
 - (A) 35°
- (B) 60°
- (C) 40°
- (D) 45°
- 135. Two circles touch each other internally. Their radii are 2 cm and 3 cm. The biggest chord of the greater circle which is outside the inner circle is of length
 - (A) $2\sqrt{2}$ cm
- (B) $3\sqrt{2}$ cm
- (C) $2\sqrt{3}$ cm (D) $4\sqrt{2}$ cm
- 136. ABCD is a cyclic quadrilateral. AB and DC are produced to meet at P. If $\angle ADC = 70^{\circ}$ and $\angle DAB = 60^{\circ}$, then the $\angle PBC + \angle PCB$ is
 - (A) 130°
- (B) 150°
- (C) 155°
- (D) 180°
- 137. From a point P which is at a distance of 13 cm from centre O of a circle of radius 5 cm, in the same plane, a pair of tangents PQ and PR are drawn to the circle. Area of quadrilateral PQOR is
 - (A) 65 cm²
- (B) 60 cm²
- (C) 30 cm²
- (D) 90 cm²

SPACE FOR ROUGH WORK

2 409

- 138. A horse is tied to a post by a rope. If the horse moves along a circular path always keeping the rope stretched and describes 88 metres when it has traced out 72° at the centre the length of the rope is (Take $\pi = \frac{22}{7}$)
 - (A) 70 m
- (B) 75 m
- (C) 80 m
- (D) 65 m
- 139. Maximum value of $(2\sin\theta + 3\cos\theta)$ is
- (B) $\sqrt{13}$ (C) $\sqrt{15}$
- 140. The value of $152 \left(\sin 30^{\circ} + 2\cos^2 45^{\circ} + 3\sin 30^{\circ} + 4\cos^2 45^{\circ}\right)$ + + 17sin 30° + 18 cos² 45°) is
 - (A) an integer but not a perfect square
 - (B) a rational number but not an integer
 - (C) a perfect square of an integer
 - (D) irrational
- 141. If $(1 + \sin \alpha)(1 + \sin \beta)(1 + \sin \gamma) =$ $(1-\sin\alpha)(1-\sin\beta)(1-\sin\gamma)$, then each side is equal to
 - (A) $\pm \cos \alpha \cos \beta \cos \gamma$ (B) $\pm \sin \alpha \sin \beta \sin \gamma$
 - (C) $\pm \sin\alpha\cos\beta\cos\gamma$ (D) $\pm \sin\alpha\sin\beta\cos\gamma$
- 142. One of the four angles of a rhombus is 60°. If the length of each side of the rhombus is, 8 cm, then the length of the longer diagonal is
 - (A) 8√3 cm
- (B) 8 cm
- (C) $4\sqrt{3}$ cm (D) $\frac{8}{\sqrt{3}}$ cm
- 143. If the arcs of square length in two circles subtend angles of 60° and 75° at their centres the ratio of their radii is
 - (A) 3:4
- (B) 4:5
- (C) 5:4
- (D) 3:5

144. E 100-Production of food 60-40 2006 2007

Year →

Study the above bar graph showing the production of food grains (in million tons).

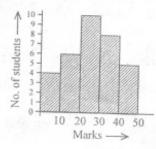
What is the ratio between the maximum production and the minimum production during the given period?

- (A) 1:2
- (B) 2:3

2008

- (C) 3:4
- (D) 5:2

Study the following Histogram and answer following question nos. 145 to 149.

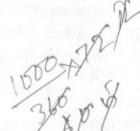


- 145. The total number of students involved in the data is
 - (A) 33
- (B) 32
- (C) 43
- 146. The maximum number of students got the marks in the interval of
 - (A) 10 20
- (B) 20 30
- (C) 30-40
- (D) 40-50
- 147. The least number of students got the marks in the interval
 - (A) 40 50
- (B) 20 30
- (C) 10-20
- (D) 0-10

- 148. The ratio of the students obtaining marks in the first and the last interval is
 - (A) 5:4
- (B) 6:5
- U(C) 4:5
- (D) 3:4
- 149. The difference in the amount estimated by the family on interior decoration and architect's fees is
 - (A) ₹10000
- (B) ₹9500
- (C) ₹7200
- (D) ₹9600

150.





In a certain country, allocations to various sectors of the yearly budget per ₹1000 crores are represented by this pie-diagram. The expenditure (in ₹) on Agriculture is

- (A) 250 crores
- (B) 150 crores
- 300 crores
- (D) 200 crores

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

- 144. A trader sells two computers at the same price. On one he makes a profit of 15% and on the other he suffers a loss of 15%. Find his gain or loss per cent.
 - (A) Loss 2.25% (B) Gain 2%
 - (C) No loss no gain (D) Loss 2%
- 145. Two trains of equal length running in opposite directions, pass a student standing by the side of railway line in 18 sec and 12 sec respectively. The time that the two trains will take to cross each other, is
 - (A) 7.2 sec
- (B) 9.6 sec
- (C) 10.8 sec
- (D) 14·4 sec

- 146. A father's age was five times his son's age five years ago and will be three times the son's age after two years. The ratio of the present age of the father to that of the son is
 - (A) 33:5
- (B) 11:5
- (C) 3:1
- (D) 10:3
- 147. A retailer buys a sewing machine at a discount of 15% and sells it for ₹ 1955. Thus he makes a profit of 15%. The discount is
 - (A) ₹ 270
- (B) ₹ 290
- (C) ₹ 300
- (D) ₹ 330
- 148. A number N is divisible by 6 but not divisible by 4. Which of the following will not be an integer?

- 149. In a football tournament there are 50 teams. Each team plays with every other team exactly once. How many matches will have to be organised?
 - (A) 1025
- (B) 1225
- (C) 1026
- (D) 1226
- 150. A leak can empty a full tank in 12 minutes. If the leak is absent, two pipes A and B can fill the tank separately in 15 minutes and 20 minutes respectively. If the leak is active and both the pipes are open, then the tank will be filled in
 - (A) 30 minutes
- (B) 60 minutes
- (C) 23 minutes
- (D) 35 minutes

PART - D : ENGLISH COMPREHENSION

Directions: In question nos. 151 and 152, there are four different words out of which one is correctly spelt. Find the correctly spelt word and indicate it by blackening the appropriate oval [] in the Answer Sheet.

- 151. (A) humorous
- (B) humourous
- (C) humorus
- (D) humourus
- 152. (A) narcisism
- (B) narcissism
- (C) narcisim
- (D) narsisism

Directions: In question nos. 153 to 162, you have two brief passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [] in the Answer Sheet.

PASSAGE I

(Question Nos. 153 to 157)

Pidgins are languages that are not, acquired as mother tongues and that are used for a restricted set of communicative functions. They are formed from a mixture of languages and have a limited vocabulary and a simplified grammar. Pidgins serve as a means of communication between speakers of mutually unintelligible languages and may become essential, in multilingual areas. A creole develops from a pidgin when the pidgin becomes the mother tongue of the community. To cope with the consequent expansion of communicative functions the vocabulary is increased and the grammar becomes more complex. Where a creole and the standard variety of English coexist, as in the Carribbean, there is a continuum from the most extreme form of creole to the form that is closest to the standard language. Linguists mark off the relative positions on the creole continuum as the 'basilect' (the furthest from the standard language), the 'mesolect', and the 'acrolet'. In such situations, most creole speakers can vary their speech along the continuum and many are also competent in the standard English of their country.

- 153. A pidgin develops in a situation when
 - (A) Different and mutually unintelligible languages exist side by side
 - (B) A creole becomes the mother tongue of a linguistic community
 - (C) A language with restricted vocabulary undergoes an expansion in grammar and vocabulary
 - (D) Two similar languages are mixed to create a new language

- 154. According to the given passage a pidgin becomes a creole when
 - (A) It ceases to be a means of communication
 - (B) It becomes the mother tongue for a new generation of speakers
 - (C) Its vocabulary undergoes some kind of change
 - (D) Two or more languages are mixed with an existing pidgin
- 155. According to the passage, a creole continuum is
 - (A) A linguistic term for the mixture of more than two languages
 - (B) A scale which measures the linguistic competence of the speaker
 - (C) A scale in which the proximity of the creole to the standard language is measured
 - (D) A record of the continuous history of a creole
- 156. According to the passage 'basilect' means
 - (A) An impure form of a creole
 - (B) A form of creole which is furthest from the standard language
 - (C) A form of creole which has an extended vocabulary
 - (D) A form of creole which is very close to the standard language
- 157. Find out a word in the passage which is opposite in meaning to the word 'Simplified'
 - (A) Complex
- (B) Expansion
- (C) Restricted
- (D) Consequent

PASSAGE II

(Question Nos. 158 to 162)

There were four of us – George, and William Samuel Harris, and myself, and Montmorency. We were sitting in my room, smoking and talking about how bad we were – bad from a medical point of view I mean, of course.

We were all feeling seedy, and we were getting quite nervous about it. Harris said he felt such extraordinary fits of giddiness come over him at times, that he hardly knew what he was doing; and then George said that he had fits of giddiness too, and hardly knew what he was doing. With me, it was my liver that was out of order. I knew it was my liver that was out of order, because I had just been reading a patent liver-pill circular, in which were detailed the various symptoms by which a man could tell when his liver was out of order. I had them all.

It is a most extraordinary thing, but I never read a patent medicine advertisement without being impelled to the conclusion that I am suffering from the particular disease therein dealt with in its most virulent form. The diagnosis seems in every case to correspond exactly with all the sensations that I have

- 158. The four felt down and out because
 - (A) the room was too smoky
 - (B) they could never read a patent medicine advertisement
 - (C) they thought they were ill
 - (D) they had experienced a most extraordinary thing
- 159. Whenever the speaker read a liver pill circular
 - (A) he suffered from an extraordinary surge of giddiness
 - (B) he felt sure that he had a liver disorder
 - (C) he felt the urge to smoke
 - (D) All of the above
- 160. The author of the above passage seems to be suffering from
 - (A) fits of morbid depression without real
 - (B) an abnormal anxiety about his health
 - (C) melancholia
 - (D) an unnecessarily dark, gloomy pessimistic attitude to life
- 161. Harris was troubled by
 - (A) a symptom of vertigo
 - (B) garrulity
 - (C) tribulation
 - (D) frailty
- 162. The word which is closest in meaning to virulent is
 - (A) fantastic
- (B) vital
- (C) viral
- (D) hostile

G - AB 2013

Directions: In question nos. 163 to 167, some parts of the sentences have errors and some have none. Find out which part of a sentence has an error and blacken the oval [] corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

163 I whistled thrice

(A)

with full might and raise my arms

(B)

towards the sky. No error. (C) (D)

Science and religion

(A)

are both necessary for man and for their

(B)

outer and inner self respectively. No error. (D)

At certain seasons, some areas on Mars (B)

is subject to strong winds. No error. (C)

As an artist Raju is as good, (B)

> if not better than Ramesh. No error. (D)

The scientists could not hardly

> complete all the experiments. No error. (D)

Directions: In question nos. 168 to 172, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [] in the Answer Sheet.

- 168. Google is one of the most popular search engines, it is __ _ by the internet users.
 - (A) utilized
- (B) effected
- (C) examined
- (D) flabbergasted

P.T.O.

he asked her to make evening. (A) silly-willy (C) wasting	her final decision by that (B) dilly-dally	Directions: In question nos. 179 to 183, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and manit in the Answer Sheet.		
animal shelter. (A) adept, adapt (C) adept, adopt	(B) adapt, adapt (D) adapt, adopt	179. Hard work pays in the long run. (A) always (B) over a period of time (C) indefinitely (D) never		
171. School days are conyears of your life. We in school began, I began enjoyable days and of (A) penultimate (C) integral	Then my year gan to think of those past f my future also. (B) absolute	180. I felt a fish out of water among the lawyers. (A) special (B) happy (C) uncomfortable (D) proud 181. The Cauvery water issue led to apple of discord between the two Governments.		
172. Being, the verdict. (A) sagacious (C) malicious		(A) cause of anger (B) cause of hatred (C) cause of quarrel (D) cause of animosity		
Directions: In question in the four alternatives, choosexpresses the meaning of the in the Answer Sheet.	se the one which best	182. The construction remains unfinished and the workers have let the grass grow under their feet. (A) grown grass all over the lawn		
173. Garrulous (A) talkative (C) vocative	(B) sedative (D) positive	(B) gone on a luxury tour (C) delayed doing the work (D) demanded more benefits		
174. Tinsel	(2) positive	183. The police smelt the rat behind the death of the		
(A) tinkle (C) tin	(B) decoration (D) colourful	girl. (A) got very much confused		
175. Labyrinth (A) meandering (C) pacing	(B) rotating (D) wriggling	(B) identified the cause of death (C) suspected that something is fishy (D) jumped to the conclusion		
Directions: In question nos word opposite in meaning mark it in the Answer Shee	. 176 to 178, choose the to the given word and	Directions: In question nos. 184 to 193, a sentence/part of the sentence is underlined. Below are given alternatives to the underlined sentence/part of the		
176. Cordial (A) fast (C) friendly	(B) heartfelt (D) hostile	sentence at (A), (B) and (C) which may improve the sentence. Choose the correct alternative. In case n improvement is needed, your answer is (D).		
177. Instinctive		184. The disparity of the GDP between the rich and the poor has broadened in the last some		
(A) innate (C) inherent	(B) rational (D) inborn	decades.		
178. Venial (A) minor	(B) pardonable	(A) have widened in the last some decades (B) has widened in the last few decades (C) have broadened in the last few decades		
(C) unpardonable	(D) clean	(C) have broadened in the last few decades (D) No improvement		

- 185. How, is beyond my understanding, the boy could fall into the ditch.
 - (A) How the boy could fall into the ditch is beyond my understanding
 - (B) Beyond my understanding is how the boy could fall into the ditch
 - (C) How could the boy fall into the ditch is beyond my understanding
 - (D) No improvement
- 186. The pioneer spacecraft went beyond Pluto.
 - (A) made its way past
 - (B) went across
 - (C) went after
 - (D) No improvement
- 187. The firm buys frozen seafood in bulk, packs it into smaller pouches and then they sell them to the local grocery stores.
 - (A) it sells them
 - (B) sell them
 - (C) they sell the pouches
 - (D) No improvement
- 188. The learners are intended to read the sources at home.
 - (A) are meant
- (B) are suggested
- (C) are expected
- (D) No improvement
- 189. Fuji's invention of supercomputer will be enable to make Japan supercede America in computer technology.
 - (A) will make Japan
 - (B) will enable Japan
 - (C) can make Japan
 - (D) No improvement
- 190. I could never repay the debt I owe to my place of study.
 - (A) Alma Mater
- (B) Motherland
- (C) Place of worship (D) No improvement
- 191. She cries all the time.
 - (A) mostly everytime
 - (B) Day in and day out
 - (C) pretty frequently
 - (D) No improvement

- 192. For a week last month, the team's 20 players were stranded because the <u>Government-issued</u> passport is not up to international standards.
 - (A) Government-issued passports were not up to international standards
 - (B) Government-issued passports are not up to international standards
 - (C) The passports issued by the government were not up to international standards
 - (D) No improvement
- 193. Since July 2008, our customers will be able to use the ATM network of BBY Bank, the bank that was acquired by us during that year.
 - (A) have been able to use
 - (B) were using
 - (C) will have been able to use
 - (D) No improvement

Directions: In question nos. 194 to 200, out of the four alternatives, choose the one which can be substituted for the given words/sentence and indicate it by blackening the appropriate oval [in the Answer Sheet.

- 194. One who is unaffected or indifferent to joy, pain, pleasure or grief
 - (A) Tolerant
- (B) Resigned
- (C) Passive
- (D) Stoic
- 195. A person who is greatly respected because of wisdom
 - (A) veracious
- (B) vulnerable
- (C) venerable
- (D) verger
- 196. An excessively morbid desire to steal
 - (A) stealomania
- (B) kleptomania
- (C) cleftomania
- (D) keptomania
- Prohibited by law or treaty from being imported or exported
 - (A) contraband
- (B) smuggled
- (C) counterfeit
- (D) forged
- 198. Intentional destruction of racial groups
 - (A) regicide
- (B) genocide
- (C) homicide
- (D) fratricide
- A person in a vehicle or on horseback escorting another vehicle
 - (A) Navigator
- (B) Escort
- (C) Outrider
- (D) Security
- 200. A person specially interested in the study of coins and medals.
 - (A) medallist
- (B) coinist
- (C) numismatist
- (D) numerist