

Combined Graduate Level (Tier-I) Exam-2015

Time: 2 Hours Max. Marks: 200

PART-A : GENERAL INTELLIGENCE & REASONING

- Introducing a man, a woman said "His mother is the only daughter of my father'. How is the man related to the woman?
 - (a) Son
- (b) Father
- (c) Brother
- (d) Uncle

DIRECTIONS (Qs. 2-7): In questions, select the related word/ letters number from the given alternatives.

- BLOCKED: YOLXPVW::?:OZFMMXS
 - (a) LABOURS
- (b) LAUNNCH
- (c) DEBATES
- (d) RESULTS
- 12:72::8:? 3.
 - (a) 36 38 (c)

- 32 (b) 40
- FIG: EGHJFH::BIN:?
 - ACJHMO (a)
- CAHJMOC
- CAJHOM (c)

- ACHJMO
- 6:42::7:? (a) 48
- 40 (b)
- 56 (c)
- 52 (d)
- Garbage: House:: Gangue:? 6.
 - (a) Factory
- (b) Drugs
- Office (c)
- Ore (d)
- 7. DBU: EEZ:: CJH:?
 - (a) DMN
- (b) DNM
- (c) DNN
- (d) DMM

DIRECTIONS (Qs. 8-13): *In questions, find the odd word/letters* /numbers from the given alternatives.

- 8. Lawyer (a)
- Legislator (b)
- Mayor (c)
- (d) Governor
- (a) Acute
- Parallel (b)
- Right (c)
- (d) Obtuse
- 50 (a)
- (b) 120
- (c) 37
- 145 (d)
- BS 11. (a)

- EV (b)
- DX (c)
- IZ (d)
- 12. OKHA (a)
- PERU (b)
- **ERKU** (c)
- ANDI (d)
- 13. 200 (a)
- 191 (b)
- 808 (c)

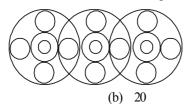
(a) 18

(c) 16 (d) 1331

19

(d)

Find out the number of circles in the figure.



DIRECTIONS (Qs. 15-17): *In questions, which one set of letters/* numbers when sequentially placed at the gaps in the given letter series shall complete it?

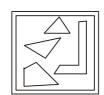
- 15. SH ELAS EELA HEELASHEE A
 - (a) HHSS
- (b) EEHS

(b) 2134

- (c) ELHA
- (d) EHSL

- 12 41 4123 234
 - (a) 3212
- (c) 3241
- (d) 1432

- 17. _ _ aba _ _ ba ab
 - (a) abbbb
- (b) baabb
- (c) bbaba
- (d) abbab
- From the given answer figures, select the one in which the 18. question figure is hidden / embedded.











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. 'A' can be represented by 01, 14 etc. and 'M' can be represented by 56, 68 etc. Similarly, you have to identify the set for the word 'EAGLE'.

Matrix-I

Matrix - II

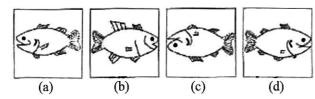
	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

	5	6	7	8	9
5	Е	M	L	N	О
6	L	Е	О	M	N
7	О	N	Е	L	M
8	N	О	M	Е	L
9	M	L	N	О	Е

- (a) 88, 22, 31, 89, 76
- (b) 66, 43, 44, 79, 88
- (c) 99, 01, 44, 96, 77
- 55, 14, 11, 78, 66

- 20. In a certain code, FRACTION is written as FNAITCOR. How is QUANTITATIVE written in that code?
 - (a) OTNAVIAITETU
- (b) QIATAETUTNVI
- (c) QTEATUIAVITN
- (d) OEAITATITNVU
- If a mirror is placed on the line MN, then which of the answer 21. figures is the right image of the given figure?



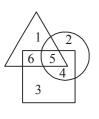


- 22. Find the number that is common for all of the clue's given below:
 - (A) Virgo
 - (B) Volleyball
 - (C) Highest scoring shot of a particular sport
 - (D) Extra sensory perceptions.
 - (a)

- (b) 4
- (c) 2

- (d) 6
- 23. Directions: Study the diagram given below and answer question.

The Qualified and experienced doctors working in villages are represented by:





- **Experience Doctors**
- Doctors working invillage

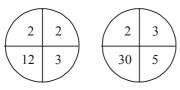
4 (a)

(b) 5

- (d) 6
- In a certain coding system APPLE stands for ETTPI. What is the code for 'DELHI'?
 - (a) CQMND
- (b) ZAHDE
- (c) HIPLM
- (d) CQPLM

DIRECTIONS (Qs. 25-29): In questions, select the missing number from the given responses.









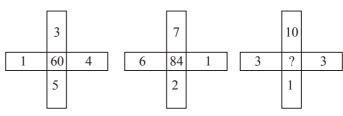
12 (a)

- (b)
- -12(c)
- (d) 9
- 40 32 72 12 26.
 - 30 24 54 9 Π
 - 54 ? 90 15 III

(a) 49 (b) 36

- 46 (c)
- (d) 48

27.

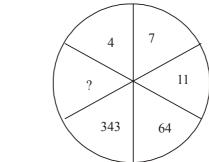


(a) 16 (b) 12

90 (c)

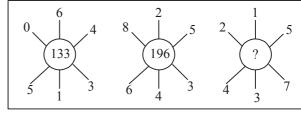
(d) 48

28.



- (a) 1332
- 1321 (b)
- (c) 1231
- (d) 1331

29.



- 535 (a)
- (b) 451
- 702 (c)
- (d) 154
- Name a single letter, which can be deleted from the body of the following words to form entirely new words? HOST POST COST LOST STOP
 - (a) T

(b) P

(c) S

(d) O

DIRECTIONS (Qs. 31-32): Questions, one or two statements is given followed by two conclusions/assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are decide which of he given conclusions/assumptions can definitely be drawn from the given statement.

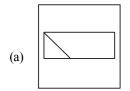
- **Statement:** No rod is pod, No pod is flexible. Inferences:
 - I. No rod is flexible.
 - II. Some pods are flexible
 - (a) Both of them follows
 - (b) Only inference I follows
 - (c) Only inference II follows
 - (d) Neither of them follows.
- 32. **Statement:** A good book even if costly is sold out in no

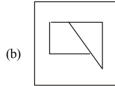
Assumptions:

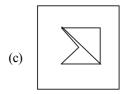
- Some books are better than others
- II. All good books are costly

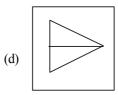
- (a) Only I follows
- (b) Both I and II follows
- (c) Neither I nor II follows (d) Only II follows
- If CUSTOM is written as UCTSMO then how PARENT will be written in the same code?
 - (a) TNERAP
- (b) RAPTNE
- (c) ERAPTN
- (d) APERTN
- In the question one part of the problem figure is subtracted. Select the option that shows the correct shape by the subtraction.



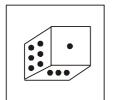


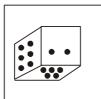






Two position of dice are shown below. When three is at the top what number will be at the bottom.



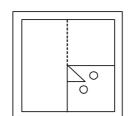


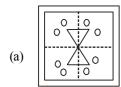
(a) 5

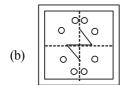
(b) 1

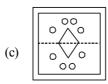
(c) 4

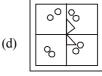
- (d) 2
- If 'air' is called 'green', green is called 'blue', 'blue' is called 'sky', 'sky' is called 'yellow', 'yellow' is called 'water' adn water is called 'Pink' then what is the colour of clear sky?
 - (a) Yellow
- (b) Water
- Sky
- (d) Blue
- A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.







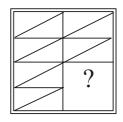


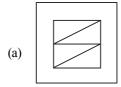


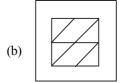
- If the words are organised in reverse order of what they appear in dictionary, which word will come in the third place.
 - (a) Occulist
- (b) Odium
- (c) Odious
- (d) Ordeum

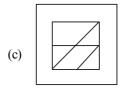
DIRECTIONS (Qs. 39-45): Which answer figure will complete the pattern in the question figure?

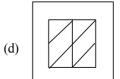
39.



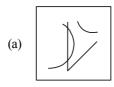


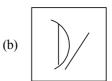


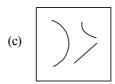


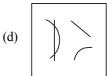






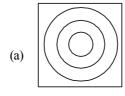


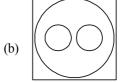


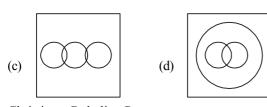


DIRECTIONS: *Questions nos 41 to 42 identify the diagram that* best represents the relationship among classes given below:

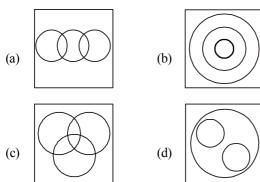
Vegetables, Potatoes, Eatables







42. Christians, Catholics, Pope



- 43. Veena and Veeru both start from a point towards North, Veena turns to left after walking 10 Km. Veeru turns to right after walking the same distance. Veena waits for some time and then walks another 5 Km. Whereas Veeru walks only 3 Km. They both then return towards south and walk 15 Km. forward. How far is Veena from Veeru?
 - (a) 12km.
- (b) 10km.
- (c) 8km.
- (d) 15km.
- 44. Find the missing number?
 - 2, 5, 10, 17, 26, ?
 - (a) 36

(b) 49

(c) 37

- (d) 47
- 45. To identify the correct response from the given premises stated according to following symbols.
 - 'A' stands for not less that (<)
 - 'B' stands for not equal to (\neq)
 - 'C' stands for not greater than (>)
 - 'D' stands for greater than (>)
 - 'E' stands for less than (<)
 - 'F' stands for equal to (=)
 - Premises YF3x and 3xF6Z
 - (a) 2YF3Z
- (b) 4YB5Z
- (c) 2YD3Z
- (d) 2YE3Z
- 46. Ravi is walking in the East direction. After covering a distance of one kilometer, he turns 45° left and then 90° right. In which direction is he now?
 - (a) North
- (b) West
- (c) North West
- (d) North East
- 47. Which of the following jumbled words is not a animal?
 - (a) LATHPEEN
- (b) TICRECK
- (c) FEFEOC
- (d) TAR
- 48. Arrange the following words as per order in the dictionary
 - (1) Hale
- (2) Hake
- (3) Halt
- (4) Hamlet
- (5) Ham
- (a) 1, 3, 5, 2, 4
- (b) 2, 1, 3, 5, 4
- (c) 2, 1, 4, 3, 5
- (d) 2, 3, 5, 4, 1
- 49. If '+' means 'x', '-' means ' \div ', ' \times ' means '-' and ' \div ' means '+', then what will be the value of $16 \div 64 8 \times 4 + 2$?
 - (a) 12

(b) 24

(c) 16

(d) 18

- 50. From the given alternative words, select the word which cannot be formed using the letters of the given word. 'BOOKBINDING'
 - (a) DONDING
- (b) DOING
- (c) DIGGING
- (d) DINING

PART-B: GENERAL AWARENESS

- 51. A computer executes programs in the sequence of:
 - (a) Decode, Fetch, Execute
 - (b) Execute, Fetch, Decode
 - (c) Fetch, Decode, Execute
 - (d) Store, Fetch, Execute
- 52. What is 'Reformation'?
 - (a) Revival of classical learning
 - (b) The revolt against authority of pope
 - (c) Rise of absolute monarchy
 - (d) Change in attitude of man
- 53. Which of the following particles has the dual nature of particle—wave?
 - (a) Neutron
- (b) Electron
- (c) Meson
- (d) Proton
- 54. SIDBI stands for :
 - (a) Small Industries Developmental Banker Institute
 - (b) Small Industrial Designed Bank of India
 - (c) Small Innovations Development Banker's Institute
 - (d) Small Industries Development Bank of India
- 55. The metal ion present in vitamin B_{12} is:
 - (a) nickel
- (b) cobalt
- (c) iron
- (d) zinc
- 56. Swaraj is my Birth Right and I shall have it. This was advocated by:
 - (a) Mahatma Gandhi
- (b) Lala Lajpat Rai
- (c) Sardar Patel
- (d) Lokmanya Tilak
- 57. Which of the following is called the Light house of the Mediterrancan?
 - (a) Stromboli of sicily
 - (b) Mount Pelee of West Indies
 - (c) Paracutin of Mexico
 - (d) Vesuvius of Italy
- 58. Who of the following has given the term rhizosphere:
 - (a) Alexopolus
 - (b) Garret
 - (c) Hiltner
 - (d) None of the given options
- 59. Which one among the following industries in the maximum consumer of water in India?
 - (a) Textile
- (b) Engineering
- (c) Paper and Pulp
- (d) Thermal Power
- 60. First Nobel Prize to India was given for:
 - (a) Physics
- (b) Literature
- (c) Medicine
- (d) Chemistry
- 61. Gandhiji's Famous Quit India Movement call to the British was given in:
 - (a) 1940
- (b) 1942
- (c) 1941
- (d) 1943
- Choose the correct option which represents the arrangement of atmospheric layers.
 - (a) Troposphere, Stratosphere, Mesosphere, Ionosphere, Exosphere
 - (b) Mesosphere, Ionosphere, Exosphere, Troposphere, Stratosphere

73.

75.

(a) Liliaceae

Pulses are obtained from the family:

(b) Fungi

- Margret Thatcher Ionosphere, Exosphere, Mesosphere, Troposphere, (b) Golda Mayer Stratosphere (c) Sarojini Naidu (d) Vijya Lakshmi Pandit Exosphere, Troposphere, Ionosphere, Mesosphere, The one rupee note bears the signature of: (a) Governor, Reserver Bank of India Stratosphere Which of the following options correctly explains the term (b) Finance Minister 'heat budget'? (c) Secretary, Ministry of Finance (a) It is the amount of heat which the surface of earth (d) None of these receives form the sun. What is the currency of Saudi Arabia? (b) It is the radiation from the earth in the form of long (a) Riyal (b) Pound (c) Lira waves (d) Dinar (c) It is a mode of transfer of heat through matter by Reserve Bank of India was nationalised in: molecular activity. (a) 1951 1947 (d) It is the balance between incoming and outgoing 1949 (c) 1935 (d) radiation. 80. Which among the following is a folk dance of India. Reverse transcription was discovered by: (a) Kathakali (b) Mohiniattam (a) Beadle and Tatum (c) Manipuri Garba (d) (b) Watson and Crick 81. NABARD stands for (c) Temin and Baltimore (a) National business for Accounting and Reviewing (d) Har Govind Khorana (b) National Bank for Agriculture and Rural Development Burns caused by steam are much more severe than those National Bank for Aeronautics and Radar Development caused by boiling water because: (d) National Bureau for Air and Road Transport (a) Steam pierces through the pores of body quickly Surplus budget is recommended during: (b) Temperature of steam is higher (a) Depression (b) Boom (c) Steam is gas and engulfs the body quickly War (d) Famines (c) (d) Steam has latent heat Who was the first Speaker of the Lok Sabha: Which among the following is the sweetest sugar? (a) B.R. Ambedkar (b) G.V. Mavalankar (a) lactose (b) maltose (c) N. Sanjeev Reddy (d) Dr S.P. Mukherjee (c) glucose (d) fructose What is the plural volting system? Ultra purification of a metal is done by: (a) All the citizens caste three votes each (b) leaching (a) smelting (b) Eligible voter exercises one vote and some voters with (c) zone melting (d) slagging specific qualifications cast more than one vote. The layer of atmosphere close to the earth's surface is Only the higher officials caste more than one votes called: (d) Candidates themselves caste more than one vote. Exosphere (b) Ionosphere 85. Which of the following plant shows chloroplast (c) Stratosphere (d) Troposphere dimorphism? Microbial degradation of nitrates into atmospheric nitrogen (a) Sugarcane Sugar beet is known as: (c) Rice (d) Wheat (b) Denitrification (a) Ammonification Day and Night are equal at the: (c) Putrefacation (d) Nitrifcation (a) Prime Meridian (b) Poles Which of the following is in the ascending order of Data Equator (d) Antarctic (c) hierarchy? Economic profit or normal profit is the same as: (a) Bit-Byte - Record - Field - Database - File accounting profit (b) optimum profit (b) Byte – Bit – File – Record – Database – Field (c) net profit (d) maximum profit (c) Bit-Byte-Field-Record-File-Database Evergreen type forests are found in: (d) Field – Byte – Bit – Record – File – Database (a) Mediterranean region The best milch breed in the world is: (b) Monsoon climatic area (a) Deoni (b) Holstein-Friesian (c) Desert region (c) Sindhi (d) Chittagong (d) Equatorial region In which year was the Indian National Congress formed: The gene which exhibits multiple effects is known as: (a) 1901 (b) 1835 (a) Pleiotropic (b) Pseudogene (c) 1875 1885 (d) (c) Polygene (d) Complementary Bangladesh was created in: The ash-grey soils of high latitude coniferous forests are (a) 1973 (b) 1970 known as: (c) 1972 (d) 1971 (a) Grey–Brown soils (b) Red and Yellow soils Raja Ram Mohan Roy was the founder of: (d) Podsols Tundra soils (a) Brahmo Samaj (b) Prathna Samaj Radio activity was discovered by: 91. (c) Ram Krishna Mission (d) Arya Samaj
- Muddy water is treated with alum in purification process, it (c) Cycadaceae (d) Leguminosae is termed as: Who was the Indian women president of the United Nations (a) absorption (b) adsorption General Assembly?
 - (c) coagulation (d) emulsification

(b) Beequeral

(d) Rutherford

(a) Curie

- An enzyme produced by HIV that allows the integration of HIV DNA into the host cell's DNA is:
 - (a) DNA gyrase
- (b) Ligase
- (c) Integrase
- (d) Helicase
- Voting is:
 - (a) The unit of area who constitute a unit for electing representative
 - (b) The process by which voters exercise their right to
 - (c) The process of selecting representatives
 - (d) Universal adult franchise.
- The two specific heats of gases are related by:
 - (a) $C_p / C_v = R$ (c) $C_p C_v = R/J$

- (b) $C_p C_v = RJ$ (d) $C_p + C_v = RJ$
- Who initiated the movement to form the Indian National Congress:
 - (a) Annie Besant
- (b) A.O. Hume
- (c) W.C. Banerjee
- (d) Gandhi ji
- Best way to conserve our water resources:
 - (a) All of the options mentioned here.
 - (b) Encouragement of natural regeneration of vegetation
 - (c) Sustainable water utilization
 - (d) Rain water harvesting
- Constitutional Monarchy means:
 - (a) The King is elected by the people
 - (b) The King interprets the constitution
 - (c) The King writes the constitution
 - (d) The King exercises power as granted by constitution
- What is popular sovereignty?
 - (a) Sovereignty of the legal head
 - (b) Sovereignty of the head of state
 - (c) Sovereignty of the people
 - (d) Sovereignty of peoples representative
- 100. Granite, quartzite areas have upstanding look because
 - (a) not easily worn
 - (b) these rocks are resistant to all kinds of erosion
 - (c) these rocks are not easily eroded
 - (d) mechanically weathered faster

PART-C: QUANTITATIVE APTITUDE

- 101. Let C_1 and C_2 be the inscribed and circumscribed circles of a triangle with sides 3 cm, 4 cm and 5 cm then area of C_1 is area of C₂

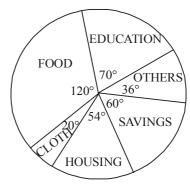
- 102. If $x = \frac{1}{\sqrt{2} + 1}$

then (x + 1) equals to

(a) 2

- (b) $\sqrt{2}-1$
- (c) $\sqrt{2} + 1$
- (d) $\sqrt{2}$

DIRECTIONS: Questions nos. 103 to 105, The pie-chart given here shows expenditure incurred by a family on various items and their savings. Study the chart and answer the questions based on the pie-chart

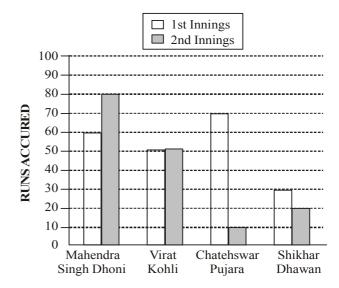


- 103. If the monthly income is ₹ 36000 then the yearly savings is:
 - (a) ₹72000
- (b) ₹60000
- (c) ₹74000
- (d) ₹70000
- 104. If the expenditure on education is ₹1600 more than that of housing then the expenditure on food is:
 - (a) ₹6000
- (b) ₹12000
- (c) ₹7000
- (d) ₹3333
- 105. The ratio of expenditure on food to savings is:
 - (a) 2:1
- (b) 3:1
- (c) 3:2
- (d) 10:9
- 106. The average marks obtained by a student in 6 subjects in 88. On subsequent verification it was found that the marks obtained by him in a subject was wrongly copied as 86 instead of 68. The correct average of the marks obtained by him is-
 - (a) 85
- (b) 87

(c) 84

(d) 86

DIRECTIONS: Questions nos. 107 to 110, Given here a multiple bar diagram of the scores of four players in two innings. Study the diagram and answer the questions.



- 107. The average run of two innings of the player who scored highest in average is:
 - (a) 75

- (b) 85
- (c) 80

- (d) 70
- 108. The average run in two innings of the player who has scored minimum at the second innings is:
 - (a) 50
- (b) 60
- (c) 40

(d) 30

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109.	The average score in second innings contributed by the four players is:		(a) $2x-3y=0$ (b) $5x-4=0$ (c) $x+2y+9=0$ (d) $2y-13=0$ The HCF of x^8-1 and x^4+2x^3-2x-1 is:
	(a) 30 (b) 60	122.	The HCF of $x^8 - 1$ and $x^4 + 2x^3 - 2x - 1$ is:
110.	(c) 40 (d) 50 The total scores in the first innings contributed by the four		(a) x^2+1 (b) $x+1$ (c) x^2-1 (d) $x-1$
	players is:	123.	The least number which when divided by 6, 9, 12, 15, 18
	(a) 220 (b) 200 (c) 210 (d) 190		leaves the same remainder 2 in each case is: (a) 178 (b) 182
111.	If the volume of a sphere is numerically equal to its surface		(a) 178 (b) 182 (c) 176 (d) 180
	area then its diameter is:	124.	Internal bisectors of $\angle Q$ and $\angle R$ of $\triangle PQR$ intersect at O. If
	(a) 4 cm (b) 2 cm (c) 3 cm (d) 6 cm		$\angle ROQ = 96^{\circ}$ then the value of $\angle RPQ$ is: (a) 12° (b) 6°
112.	A train runs at an average speed of 75 km/hr. If the distance		(a) 12 (b) 6 (c) 36° (d) 24°
	to be covered is 1050 Kms. How long will the train take to cover it?	125.	A certain sum will amount of ₹12,100 in 2 years at 10% per
	(a) 13 hrs (b) 12 hrs		annum off compound interest, interest being compounded annually. The sum is:
	(c) 14 hrs (d) 15 hrs		(a) ₹12000 (b) ₹6000
113.	G is the centroid of \triangle ABC. The medians AD and BE intersect at right angles. If the lengths of AD and BE are 9 cm and 12		(c) ₹8000 (d) ₹10000
	cm respectively; then the length of AB (in cm) is?	126.	A's 2 days work is equal to B's 3 days work. If A can complete the work in 8 days then to complete the work B will take:
	(a) 10 (b) 10.5		
114	(c) 9.5 (d) 11 The minimum value of $2 \sin^2 \Theta + 3 \cos^2 \Theta$ is		(c) 16 days (d) 12 days
11 1.	(a) 1 (b) 3 (c) 2 (d) 4	127.	If the measure of three angles of a triangle are in the ratio 2:3:5, then the triangle is:
115			
115.	If the three angles of a triangle are:	120	(a) equilateral (b) isocsceles (c) Obtuse angled (d) right angled
	$(x+15^\circ), \left(\frac{6x}{5}+6^\circ\right)$ and $\left(\frac{2x}{3}+30^\circ\right)$ then the triangle is:	128.	What must be added to each term of the ratio 2:5 so that it may equal to 5:6?
	•		(a) 12 (b) 78
	(a) scalene (b) isosceles (c) right angled (d) equilateral		(c) 65 (d) 13
116.	If the number of vertices, edges and faces of a rectangular	129	If the sum and difference of two angles are $\frac{22}{9}$ radian and
	parallelopiped are denoted by v, e and f respectively, the	12).	
	value of $(v-e+f)$ is (a) 4 (b) 2		36° respectively, then the value of smaller angle in degree
	(a) 4 (c) 1 (d) 0		taking the value of Π as $\frac{22}{7}$ is:
117.	5 persons will live in a tent. If each person requires 16m ² of		(a) 60° (b) 48°
	floor area and 100 m ³ space for air then the height of the cone of smallest size to accommodate these persons would		(c) 52° (d) 56°
	be ?	130.	4 men and 6 women complete a work in 8 days, 2 men and 9
	(a) 18.75 m (b) 16 m		women also complete i8 days. The number of days 18 women complete the work is:
	(c) 10.25 m (d) 20 m		•
118.	If the altitude of an equilateral triangle is $12\sqrt{3}$ cm, then its		(a) $4\frac{2}{3}$ days (b) $5\frac{2}{3}$ days
	area would be: (a) 12 cm^2 (b) 72 cm^2		.1 1
	(c) $36\sqrt{3} \text{ cm}^2$ (d) $144\sqrt{3} \text{ cm}^2$		(c) $4\frac{1}{3}$ days (d) $5\frac{1}{3}$ days
119	The difference between successive discounts of 40%		v ²⁴ + 1
117.	followed by 30% and 45% followed by 20% on the maked	131.	If $x = \frac{x^{24} + 1}{x^{12}} = 7$ then the value of $\frac{x^{72} + 1}{x^{36}}$
	price of an article is ₹ 12. The marked price of the article is:		(a) 432 (b) 433
	(a) ₹400 (b) ₹200 (c) ₹800 (d) ₹600		(c) 343 (d) 322 If $5x + 9y = 5$ and $125x^3 + 729y^3 = 120$ then the value of the
120.	The area of the triangle formed by the graphs of the	132.	If $5x + 9y = 5$ and $125x^3 + 729y^3 = 120$ then the value of the
	equations $x = 0$, $2x + 3y = 6$ and $x + y = 3$ is		product of x and y is
	(a) 3 sq. unit (b) $1\frac{1}{2}$ sq. unit		(a) 135 (b) $\frac{1}{135}$
	(a) 3 sq. unit (b) $1\frac{1}{2}$ sq. unit		135
	(c) 1 sq. unit (d) $4\frac{1}{2}$ sq. unit		(c) $\frac{1}{9}$ (d) 45
	L	122	If 4 men or 8 women can do a piece of work in 15 days, in how
121.	Among the equations $x + 2y + 0 = 0.5x$, $4 = 0.2x$, $12 = 0.2x$, $2y = 0$ the equation	133.	many days can 6 men and 12 women do the same piece of work?
	x+2y+9=0; $5x-4=0$; $2y-13=0$; $2x-3y=0$, the equation of the straight line passing through origin is—		(a) 45 days (b) 20 days
			(c) 15 days (d) 30 days

(a) 45 days(c) 15 days

(b) 20 days (d) 30 days

134.	The	value of $\sin^2 22^\circ + \sin^2 6$	$68^{\circ} + \cot^2 30^{\circ}$ is	145.	An article which is marked	at₹9	75 is sold for ₹897. The %
	(a)	<u>3</u>	(b) 4		discount is ? (a) 6%	(b)	10%
	(a)	4	(0) 4		(c) 12%	(d)	
		5		146.	If $\sec \theta + \tan \theta = p$, $(p \neq 0)$		
	(c)	$\frac{-}{4}$	(d) 3				
135.		a simple discount equal, 20% and 25%	nivalent to a discount series of		(a) $\left(p+\frac{1}{p}\right), p \neq 0$	(b)	$\frac{1}{2}\left(p+\frac{1}{p}\right), p\neq 0$
		45% 52%	(b) 55%		(1)		(1)
126	(c)	52%	(d) 46%		(c) $2\left(p-\frac{1}{p}\right), p \neq 0$	(d)	$\left(p - \frac{1}{p} \right), p \neq 0$
130.	valu.	be acute angle and tan (4) e of θ in degrees is:	$\theta - 50^{\circ}$) = cot (50° – θ), then the	1.47	. 1.		. 1.
		30	(b) 40	14/.	If $p = 99$ then the value of p	(b)	988899
	(c)		(d) 50		(a) 999999(c) 989898	(q)	998889
137.			equal to the selling price of 60	148.	If $x = 2$ then the value of $x^3 +$	- 27x ²	
	book	s. The gain or loss per	centage will be:		(a) 1233		1231
		200	1 (1)		(c) 1321		1211
	(a)	$66\frac{2}{3}\%$	(b) $66 - \%$	149.	If D, E and F are the mid		
					respectively of the $\triangle ABC$		
	(c)	66%	(d) $66\frac{3}{4}\%$		parallelogram DEFB and are		
			•		(a) 1:3		1:2
138	If 5c	$in\theta = 3$, the numerical v	value of $\frac{\sec \theta - \tan \theta}{}$	150	(c) 3:4 If A and B are in the ratio 4		2:3
136.	11 38	ino – 5, the numerical v	$\sec \theta + \tan \theta$	130.	squares is 81, what is the va		
	sec (θ – tan θ			(a) 36	(b)	
		$\theta + \tan \theta$			(c) 45	(d)	
	500	1	1			` /	
	(a)	1	(b) $\frac{1}{2}$		PART-D : ENGLISH	COV	MPREHENSION
	()	-	-			_	
	(c)	$\frac{1}{4}$	(4)		ECTIONS (Qs. 151-155): In		
	(c)	$\frac{\overline{4}}{4}$	(a) $\frac{-}{5}$		n with blanks to be filled in	with	an appropriate word(s).
		•	3	L'ann	a altama atimos amo ancacatad	fore	ash augstion Chassatha
	3	•	3				ach question. Choose the
139.	If $\frac{3}{4}$	of a number is 7 more	3	corr	ect alternative out of the fou	r and	indicate it by blackening
139.			than $\frac{1}{6}$ of the number, then $\frac{5}{3}$	corr thee	ect alternative out of the fou appropriate circle in the Ar	r and iswer	indicate it by blackening Sheet.
139.	ofth	e number is :	3	corr thee	ect alternative out of the foul appropriate circle in the Art When the morning	r and iswer	indicate it by blackening Sheet.
139.	ofth	ne number is :	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$	corr thee	ect alternative out of the foul appropriate circle in the An When the morning discovered.	r and Iswer	indicate it by blackening Sheet. the murder was
	of th (a) (c) Wha	ne number is: 15 12 tt is the arithmetic mean	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers?	corr thee	ect alternative out of the four appropriate circle in the Ar When the morning discovered. (a) came	r and iswer —— (b)	indicate it by blackening Sheet. the murder was
140.	of th (a) (c) Wha (a)	ne number is: 15 12 at is the arithmetic mean 17	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19	thee 151.	when the morning discovered. (a) came (b) arrived The smell of the Sea called	r and aswer (b) (d)	indicate it by blackening Sheet. the murder was happened occurred
140.	of th (a) (c) Wha (a) (c)	ne number is: 15 12 at is the arithmetic mean 17 22	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20	thee 151.	when the morning discovered. (a) came (b) arrived The smell of the Sea called childhood.	r and nswer (b) (d)	the murder was happened occurred memories of her
140.	of th (a) (c) Wha (a) (c)	ne number is: 15 12 at is the arithmetic mean 17 22	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19	thee 151.	when the morning discovered. (a) came (b) arrived The smell of the Sea called childhood. (a) on	(b) (d)	the murder was happened occurred memories of her
140.	of th (a) (c) Wha (a) (c) A ki	te number is: 15 12 at is the arithmetic mean 17 22 te is flying at the height	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The	correthee 151.	when the morning discovered. (a) came (b) arrived The smell of the Sea called childhood. (a) on (b) up	(b) (d) (b) (d)	indicate it by blackening Sheet. the murder was happened occurred memories of her black for
140.	of th (a) (c) Wha (a) (c) A ki	te number is: 15 12 at is the arithmetic mean 17 22 te is flying at the height	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20	correthee 151.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts	(b) (d) (b) (d)	the murder was happened occurred memories of her
140.	of th (a) (c) Wha (a) (c) A ki	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the heighted g makes an angle θ (where the number is	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The	correthee 151.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them.	(b) (d) (b) (d)	indicate it by blackening Sheet. the murder was happened occurred memories of her black for but is deliberately hiding
140.	of th (a) (c) Wha (a) (c) A ki strin grout leng	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the height ag makes an angle θ (when the distribution of the string is equal	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to:	correthee 151.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (b) up He has the full facts them. (a) under his sleeves	(b) (d) (b) (b)	indicate it by blackening Sheet. the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves
140.	of th (a) (c) Wha (a) (c) A ki strin grout leng (a)	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the height ag makes an angle θ (when the distribution of the string is equal) 75 m	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m	corr. thee 151.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve	(b) (d) (b) (d)	the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves in his sleeves
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grout leng (a) (c)	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the height ag makes an angle θ (when the distribution of the string is equal) 75 m 40 m	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m	corr. thee 151.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (b) up He has the full facts them. (a) under his sleeves	(b) (d) (b) (d) (d)	indicate it by blackening Sheet. the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grout leng (a) (c) If a p	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the height ag makes an angle θ (when the distribution of the string is equal) 75 m 40 m berson travels from a poin	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m nt L towards east for 12 km and	corr. thee 151. 152. 153.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve The appearance of the city (a) could change (c) had changed	(b) (d) (b) (d) (b) (d) (d)	happened occurred memories of her black for but is deliberately hiding upon his sleeves in his sleeves day by day. changed is changing
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grout leng (a) (c) If a p then	te number is: 15 12 at is the arithmetic mean 17 22 te is flying at the height ag makes an angle θ (when the distriction of the string is equal 75 m 40 m berson travels from a pointravels 5 km towards	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m nt L towards east for 12 km and north and reaches a point M,	corr. thee 151. 152. 153.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve The appearance of the city (a) could change (c) had changed The police fired on the mole	(b) (d) (b) (d) (d) (b) o whee	the murder was the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves in his sleeves day by day. changed is changing en they
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grout leng (a) (c) If a p then then	te number is: 15 12 at is the arithmetic mean 17 22 te is flying at the height ag makes an angle θ (whand. Assuming that the th of the string is equal 75 m 40 m berson travels from a poi travels 5 km towards shortest distance from	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m nt L towards east for 12 km and north and reaches a point M, L to M is:	corr. thee 151. 152. 153.	weet alternative out of the four appropriate circle in the Ar When the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve The appearance of the city (a) could change (c) had changed The police fired on the mole (a) turned noisy	(b) (d) (b) (d) (d) (b) (d) (b) (d) (b) (d) (d) (d) (b) (d) (d) (d) (e) (b) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	the murder was the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves in his sleeves day by day. changed is changing en they turned violent
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grouleng (a) (c) If a p then then (a)	te number is: 15 12 at is the arithmetic mean 17 22 te is flying at the height ag makes an angle θ (whand. Assuming that the th of the string is equal 75 m 40 m berson travels from a poi travels 5 km towards shortest distance from	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m nt L towards east for 12 km and north and reaches a point M,	correthee 151. 152. 153. 154. 155.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve The appearance of the city (a) could change (c) had changed The police fired on the mole (a) turned noisy (c) became abusive	(b) (d) (b) (d) (b) (d) (b) (d) (d) (d) (d)	happened occurred memories of her black for but is deliberately hiding upon his sleeves day by day. changed is changing en they turned violent fizzled out
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grouleng (a) (c) If a p then then (a) (c) In er	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the height 18 19 19 10 10 10 11 11 12 12 12 13 14 15 16 17 17 17 18 18 19 10 10 11 11 12 11 12 12 11 12 12	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m nt L towards east for 12 km and north and reaches a point M, L to M is: (b) 12 (d) 13 t must get 36% marks to pass. A	151. 152. 153. 154. 155.	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve The appearance of the city (a) could change (c) had changed The police fired on the mol (a) turned noisy (c) became abusive ECTIONS (Qs. 156-158):	(b) (d) (b) (d) (b) (d) (d) (b) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves day by day. changed is changing en they turned violent fizzled out uestions, out of the four
140. 141.	of th (a) (c) Wha (a) (c) A ki strin grouleng (a) (c) If a p then (a) (c) In er stude	te number is: 15 12 It is the arithmetic mean 17 22 It is flying at the height 18 19 19 10 10 10 11 10 11 11 11	than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ (b) 18 (d) 20 of first 20 odd natural numbers? (b) 19 (d) 20 t of 75 m from the ground. The here $\cot \theta = \frac{8}{15}$) with the level re is no slack in the string, the to: (b) 85 m (d) 65 m nt L towards east for 12 km and north and reaches a point M, L to M is: (b) 12 (d) 13 t must get 36% marks to pass. A s failed by 35 marks. The total	151. 152. 153. 154. 155. DIR alter	when the morning discovered. (a) came (c) arrived The smell of the Sea called childhood. (a) on (c) up He has the full facts them. (a) under his sleeves (c) up his sleeve The appearance of the city (a) could change (c) had changed The police fired on the mol (a) turned noisy (c) became abusive ECTIONS (Qs. 156-158): matives, choose the one white	(b) (d) (b) (d) (d) (b) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	the murder was happened occurred memories of her black for but is deliberately hiding upon his sleeves day by day. changed is changing en they turned violent fizzled out uestions, out of the four est expresses the meaning
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- 158. SPUME
 - (a) foam
- (b) Lava
- (c) poison
- (d) spit

DIRECTIONS (Qs. 159-163): *In question, you have a passage* with 5 questions following. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackeing the appropriate circle in the Answer Sheet.

True, it is the function of the army to maintain law and order in abnormal times. But in normal times there is another force that compels citizens to obey laws and to act with due regard to the rights of others. The force also protects the lives and properties of law abiding men. Laws are made to secure the personal safety of its subjects and to prevent murder and crimes of violence. They are made to secure the property of the citizens against theft and damage and to protect the rights of communities and castes t carry out their customs and ceremonies, so long as they do not conflict with the rights of others. Now the good citizen, of his own free will obeys these laws and he takes care that everything he does is done with due regard to the rights and well being of others.

But the bad citizen is only restrained from breaking these laws by fear of the consequence of his actions. And the necessary steps to compel the bad citizen to act as a good citizen are taken by this force. The supreme control of law and order in a State is in the hands of a Minister, who iss responsible to the State Assembly and acts through the Inspector General of Police.

- 159. The expression "customs and ceremonies" means:
 - (a) habits and traditions
 - (b) fairs and festivals
 - (c) superstitions and formalities
 - (d) usual practices and religious rites
- 160. "They are made to secure the property of citizens against theft and damage" means that the law:
 - (a) Safeguards people's possessions against being stolen or lost
 - Initiates process against offenders of law
 - (c) helps in recovering the stolen property of the citizens
 - (d) Assists the citizens whose property has been stolen or destroyed.
- 161. Which one of the following statement is implied in the passage?
 - (a) The police hardly succeed in converting bad citizens into good ones.
 - (b) Criminals, who flout the law, are seldom brought to book
 - (c) Peaceful citizens seldom violate the law
 - (d) The police check the citizens, whether they are good or bad, from violating the law.
- 162. According to the writer, which one of the following is not the responsibility of the police?
 - (a) To check violent activities of citizens.
 - (b) To maintain peace during extraordinary circumstances.
 - To protect the privileges of all citizens
 - (d) To ensure peace among citizens by safeguarding individual rights
- 163. Which of the following statements is not implied in the passage?
 - (a) Law protects those who respect it
 - (b) A criminal is deterred from committing crimes only for fear of the law
 - (c) The forces of law help to transform irresponsible citizens into responsible ones
 - (d) Law ensures people's religious and social rights absolutely ad unconditionally.

DIRECTIONS (Qs. 164-173): In Question, a sentence/a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed choose "No Improvement". Mark your answer in the answer sheet.

- 164. He does not laugh, nor he smiles.
 - (a) nor he does smile
- (b) No improvement
- (c) neither he does smile (d) nor does he, smile
- 165. If I will get an opportunity, I shall attend the seminar.
 - (a) get
- (b) No improvement
- (c) shall get
- (d) got
- 166. The others shook their heads and made vague noises of approval.
 - (a) nodded
- (b) No improvement
- (c) turned around
- (d) hung
- 167. The world is being faced with a crisis
 - (a) No improvement
- (b) facing (d) in front of
- (c) confronted
- 168. She insisted on she was innocent.
 - (a) No improvement (c) insisted that
- (b) insisted on that (d) insisted with
- 169. She could not help but laugh
 - (a) but laughing
- (b) No improvement
- (c) laughter
- (d) laughing
- 170. I took my mother some grapes when she was in hospital.
 - (a) I took some grapes for my mother
 - (b) No improvement
 - (c) I took for my mother some grapes
 - (d) I brought my mother some grapes
- 171. We met yesterday, haven't we?
 - (a) isn't it?
- (b) No improvement
- (c) didn't we?
- (d) hadn't we?
- 172. Both the teams played the game fairly.
 - (a) played fairly the game (b) No improvement
 - (c) fairly played the game (d) played a fair game
- 173. You must endure what you cannot cure.
 - (a) suffer
- (b) No improvement
- (c) prevail
- (d) accept

DIRECTIONS(Qs. 174-176): In Question, choose the word opposite in meaning to the given word and mark it in the Answer sheet.

- 174. VACILLATION
 - (a) inoculation
- (b) relief
- (c) steadfastness
- remorse

- 175. Placid
 - (a) dull
- stormy (b)
- (c) urgent
- moving (d)
- 176. Effeminacy
 - (a) manliness
- (b) boorishness
- (c) aggressiveness
- (d) attractiveness

DIRECTIONS (Qs. 177-181): In Question, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the circle corresponding to the appropriate correct option. If a sentence is free from error, blacken the circle corresponding to "No error" option in the Answer sheet.

- 177. A bird in the tree is worth two in the bush.
 - (a) No error
- (b) two in the bush
- (c) is worth
- (d) A bird in the tree

- It is not advisable to take heavy luggages while on a journey.
 - while on a journey
- (b) to take heavy luggages
- (c) It is not advisable
- (d) No error
- 179. Just outside my house are a playground for school boys and girls
 - (a) for school boys and girls
 - (b) are a playground
 - (c) No error
 - (d) Just outside my house
- 180. He can be a basketball player since he is tall like a mule.
 - (a) No error
 - (b) He can be
 - (c) He is tall like a mule
 - (d) A basketball player since
- 181. Who do you think I met?
 - (a) Who
- (b) I met?
- (c) No error
- (d) Do you think

DIRECTIONS (Qs. 182-188): In Question, out of the four alternatives, choose the one which can be substituted for the given words / sentences and indicate it by blackening the appropriate circle in the Answer sheet.

- 182. Of one's own free will
 - (a) obligatory
- (b) mandatory
- (c) voluntary
- (d) compulsory
- 183. One who runs away from justice or the law.
 - (a) Fugitive
- (b) Thief
- (c) Criminal
- (d) Smuggler
- 184. One who is skillful.
 - (a) disciplined
- (b) different
- (c) diligent
- (d) dexterous
- 185. One who is too careless to plan for the future.
 - (a) impotent
- (b) improvident (d) imprudent
- (c) impractical 186. A person who deserves all praise
 - (a) despicable
- (b) detestable
- (c) laudable
- (d) lovable
- 187. One who has long experience
 - (a) expert
- (b) novice
- (c) practitioner
- (d) veteran
- 188. A study of ancient things.
 - (a) Physiology
- (b) Archaeology
- (c) Ethnology
- (d) Zoology

DIRECTIONS (Qs. 189-190): *In question, four words are given* in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet

- 189. (a) DIFFUSSION
- (b) DEFFUSION
- DIFFUSION (c)
- DEFUSION (d)
- 190. (a) Circumlocation
- (b) Circumlocution
- Circmlocution
- (d) Circumlocutien

DIRECTIONS (Qs. 191-195): *In question, 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 mark it in the Answer sheet.

- 191. Unless you make amends for the loss, nobody is prepared to excuse you.
 - (a) improve
- (b) pay debt
- (c) confess
- (d) compensate
- 192. Instead of keeping his promise of helping me with office work, he just left me high and dry.
 - (a) left me feeling like a fool
 - (b) left me in a state of anger
 - (c) left me without a drop of water
 - (d) left me alone to do the work

- Amit said to Rekha, "Don't make a mountain out of a molehill".
 - (a) attempt an impossible task
 - start looking for molehills in mountains.
 - create problems
 - (d) exaggerate a minor problem
- 194. Before the report reached the authority, the media spilled the beans.
 - (a) dropped the charges
 - (b) hinted at the consequences
 - (c) revealed the secret information
 - (d) spilled the content of the package
- 195. His friend turned out to be snake in the grass.
 - (a) cowardly and brutal
 - (b) low and mean
 - (c) a hidden enemy
 - (d) an unreliable and deceitful person.

Directions (Qs. 196-200): *In question, you have a passage with* 5 questions following. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate circle in the Answer sheet.

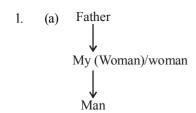
Journalists argue over functions of a newspaper. I feel that a provincial paper's purpose is not only to present and project the news objectively and imaginatively, but to help its readers to express themselves more effectively, canalizing their aspirations, making more articulate their demands. A newspaper should reflect the community it serves-warts and all. When the mirror iss held to society it reveals neglect, injustice, ignorance or complacency. It should help to eradieate them. It would be pretentious to think that a newspaper can change the course of world affairs but at the local limit it can exert influence, it can probe, it can help get things done. The individual's voice must not be stifled. Instead, the readers should be encouraged to express their opinions, fears. hopes, and or their grievances on this platform.

- 196. How can the readers air their grievances?
 - (a) By being complacent.
 - (b) By supporting the local newspaper
 - (c) By writing to journalists
 - (d) By writing to their local newspaper
- 197. What is the main purpose of a newspaper?
 - Project news objectively and imaginatively
 - (b) To present facts in a blunt way
 - (c) Exert influence on the individuals
 - (d) Encourage the readers to be pretentious
- 198. The expression "wants and all" in the passage means:
 - (a) hopes and fears
 - (b) the reader's grievances
 - with no attempt to conceal blemishes and inadequacies
 - (d) the community's problems
- 199. How can a newspaper influence local affairs?
 - (a) By probing in the ills of society and rallying support for change
 - (b) By encouraging the readers to accept their grievances
 - By focusing on world affairs
 - (d) By influencing public opinion through half truths.
- 200. In this passage the writer highlights the fact that:
 - (a) A newspaper should reflect the community it serves
 - (b) A newspaper should only concentrate on local affairs
 - Journalists differ in their opinion on the function of a newspaper
 - (d) Newspaper can eradicate injustice

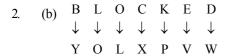
ANSWER KEY																			
1	(a)	21	(d)	41	(a)	61	(b)	81	(b)	101	(c)	121	(a)	141	(b)	161	(d)	181	(a)
2	(b)	22	(d)	42	(b)	62	(a)	82	(b)	102	(d)	122	(c)	142	(d)	162	(b)	182	(c)
3	(b)	23	(b)	43	(c)	63	(d)	83	(b)	103	(a)	123	(b)	143	(b)	163	(d)	183	(a)
4	(d)	24	(c)	44	(c)	64	(c)	84	(d)	104	(b)	124	(a)	144	(d)	164	(d)	184	(d)
5	(c)	25	(c)	45	(a)	65	(d)	85	(a)	105	(a)	125	(d)	145	(d)	165	(a)	185	(b)
6	(d)	26	(b)	46	(d)	66	(c)	86	(c)	106	(a)	126	(d)	146	(b)	166	(a)	186	(c)
7	(d)	27	(c)	47	(c)	67	(c)	87	(b)	107	(d)	127	(d)	147	(a)	167	(b)	187	(d)
8	(a)	28	(d)	48	(b)	68	(d)	88	(b)	108	(c)	128	(d)	148	(a)	168	(c)	188	(b)
9	(b)	29	(d)	49	(c)	69	(b)	89	(a)	109	(c)	129	(c)	149	(d)	169	(b)	189	(c)
10	(c)	30	(c)	50	(c)	70	(c)	90	(a)	110	(c)	130	(d)	150	(d)	170	(a)	190	(b)
11	(b)	31	(d)	51	(c)	71	(b)	91	(b)	111	(d)	131	(d)	151	(a)	171	(c)	191	(d)
12	(b)	32	(c)	52	(b)	72	(d)	92	(c)	112	(c)	132	(b)	152	(c)	172	(d)	192	(d)
13	(d)	33	(d)	53	(b)	73	(d)	93	(c)	113	(a)	133	(*)	153	(c)	173	(b)	193	(d)
14	(d)	34	(c)	54	(d)	74	(a)	94	(c)	114	(c)	134	(b)	154	(d)	174	(c)	194	(c)
15	(d)	35	(a)	55	(b)	75	(d)	95	(b)	115	(d)	135	(c)	155	(b)	175	(b)	195	(c)
16	(c)	36	(c)	56	(d)	76	(d)	96	(b)	116	(b)	136	(a)	156	(c)	176	(a)	196	(d)
17	(d)	37	(a)	57	(a)	77	(d)	97	(a)	117	(a)	137	(a)	157	(d)	177	(d)	197	(a)
18	(b)	38	(c)	58	(d)	78	(a)	98	(d)	118	(d)	138	(c)	158	(a)	178	(b)	198	(c)
19	(c)	39	(a)	59	(d)	79	(d)	99	(c)	119	(d)	139	(d)	159	(d)	179	(b)	199	(a)
20	(d)	40	(a)	60	(b)	80	(d)	100	(c)	120	(b)	140	(d)	160	(a)	180	(c)	200	(a)

Hints & Explanations

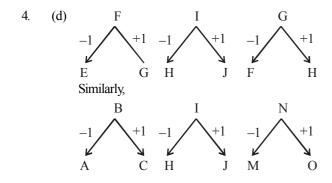
PART-A : GENERAL INTELLIGENCE & REASONING



Hence, man is son of the woman.



Above word follows reverse order of alphatets. Similarly,



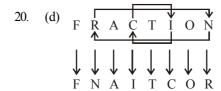
5. (c)
$$6 \times 6 + 6 = 42$$

 $7 \times 7 + 7 = 56$

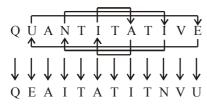
6. (d) The waste of the house is called garbage. Similarly, the impurities in the ore are called gangue.

7. (d) D B U C J H
$$\downarrow +1 \downarrow +3 \downarrow +5 \text{ Similarly,} \downarrow +1 \downarrow +3 \downarrow +5$$
E E Z D M M

- 8. (a) All others except (a) have official rankings
- 9. (b) All other except (b) are forms of angles
- 10. (c) All others except (c) are the multiples of 5.
- 11. (b) Only in option (b) first letter is 4th from the left end and second letter is 4th from the right end. Others have no sequence
- 13. (d) 1331 is the cube of 11
- 14. (d) There are 19 circles in the figure.
- 15. (d) SHEELA/SHEELA/SHEELA/SHEELA
- 16. (c) $12\underline{3}4/1\underline{2}34/123\underline{4}/\underline{1}234$
- 17. (d) <u>a b</u> a b a <u>b</u> a b a <u>b</u> a b
- 19. (c) E A G L E $\downarrow \quad \downarrow \quad 99 \quad 01 \quad 44 \quad 96 \quad 77$

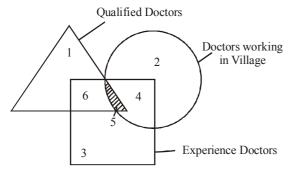


Similarly



- 22. (d) (A) Virgo is the sixth sign of zodiac.
 - (B) Volleyball is a team sport in which each team has six players
 - (C) A highest scoring short of a particular sport is six.

23. (b)



Hence, shaded portion in above diagram represents. Qualified Experienced Dorctors working in village i.e. 5.

24. (c)

Similarly,

$$\begin{array}{cccc}
D & E & L & H & I \\
+4 & +4 & +4 & +4 & +4 \\
H & I & P & L & M
\end{array}$$

25. (c) $2 \times 2 \times 3 = 12$

$$2 \times 3 \times 5 = 30$$

$$5 \times 1 \times -1 = -5$$

$$\therefore$$
 4 × 3 × -1 = -12

26. (

(b)
$$40 + 32 = \frac{72}{6} = 12$$

$$30 + 24 = \frac{54}{6} = 9$$

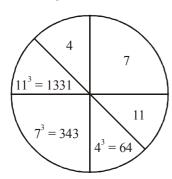
$$54 + \boxed{36} = \frac{90}{6} = 15$$

27. (

(c)
$$1 \times 3 \times 4 \times 5 = 60$$

 $6 \times 7 \times 1 \times 2 = 84$
therefore, $3 \times 10 \times 3 \times 1 = 90$.

28. (d)



30. (c) 'S' can be deleted from the body of the following words to form entirely new words.

New words are:

HOT, POT, COT, LOT, TOP

31. (d)







Inferences:

I: (False)

II: (False)

Both statements are False, so no conclusion follows.

- 32. (c) Neither I nor II assumption follows the given statement.
- 33. (d) $C \cup S \cap O \cap M \longleftrightarrow U \cap C \cap S \cap O$

Every two letters get interchanged their position. Therefore,

- 36. (c) The color of sky is blue. But blue is called sky. Hence, option (c) is correct choice.
- 38. (c) Words in reverse order:

 $Ordeum \longrightarrow Odium \longrightarrow Odious \longrightarrow Occulist$

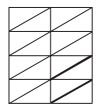
(1)

(2)

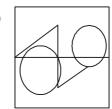
(3)

(4)

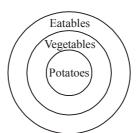
39. (a)



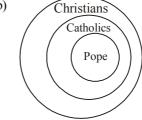
40. (a)



41. (a)



42. (b)



43. (c)

5 km left right

3 km

Veena's 10 km

(Veena and Veeru Starting point)

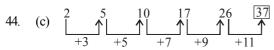
By looking at the above diagram, it is clear that Veena is 8 km for away form Veeru's position.

8 km

Veeru

Destination

Point



45. (a)
$$A \Rightarrow \not\leftarrow B \Rightarrow \not\leftarrow C \Rightarrow \not\rightarrow D \Rightarrow E \Rightarrow \not\leftarrow F \Rightarrow =$$

Veena

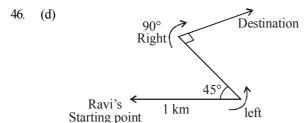
Destination

Point

Premises:

4Y = 3x and 3x = 6Z

- (a) $2Y = 3Z(\checkmark)$
- (b) $4Y \neq 5Z(x)$
- (c) 2Y > 3Z(x)
- (d) 2Y < 3Z(x)



After walking towards 90° right, he is now in north east direction.

- 47. (c) LATHPEEN → ELEPHANT
 TICRECK → CRICKET
 FEFEOC → COFFEE
 TAR → RAT
 Hence, coffee is not animal.
- 48. (b) HAKE > HALE > HALT > HAM > HAMLOT
- 49. (c) $16 \div 64 8 \times 4 + 2$ $\Rightarrow 16 + 64 \div 8 - 4 \times 2$ $\Rightarrow 16 + 8 - 4 \times 2$ $\Rightarrow 16 + 8 - 8 \Rightarrow 16$
- 50. (c) DIGGING cannot be formed from the given word.

PART-B: GENERAL AWARENESS

51. (c) The first step the CPU carries out is to fetch some data instructions from main memory then store them in its own internal temporary memory areas. The next step is

- for the CPU to make sense of the instruction it has just fetched this process is called Decode. Execute is the part of the cycle when data processing actually takes place.
- 52. (b) Reformation was a 16th-century movement in Western Europe that aimed at reforming some doctrines and practices of the Roman Catholic Church and resulted in the establishment of the Protestant churches.
- 53. (b) Wave particle duality is a quantum mechanics effect. It means the electron sometimes acts like a particle and sometimes it acts like a wave. It depends on the situations.
- 54. (d) SIDBI stands for Small Industries Development Bank of India. It is an independent financial institution aimed to aid the growth and development of micro, small and medium-scale enterprises (MSME) in India. It was set up on April 2, 1990 through an act of parliament.
- 55. (b) Vitamin B12 consists of a class of chemically related compounds (vitamers). It contains the biochemically rare element cobalt.
- 56. (d) Bal Gangadhar Tilak is considered as "Father of Indian National Movement". He was a social reformer, freedom fighter, national leader and a scholar of Indian history, sanskrit, hinduism, mathematics and astronomy. During freedom struggle, his slogan "Swaraj is my birthright and I shall have it" inspired millions of Indians.
- 57. (a) Stromboli, a small island north of Sicily, is one of the most active volcanoes in the world and famous for its normally small, but regular explosions throwing out glowing lava from several vents inside its summit crater. This activity has been going on for at least 2000 years. Thus, it is called Light house of the Mediterranean.
- 58. (d) In 1904 the German agronomist and plant physiologist
 Lorenz Hiltner first coined the term "rhizosphere" to
 describe the plant-root interface, a word originating in
 part from the Greek word "rhiza", meaning root.
 Hiltner described the rhizosphere as the area around a
 plant root that is inhabited by a unique population of
 microorganisms influenced, he postulated, by the
 chemicals released from plant roots.
- 59. (d) Thermal Power Plants consumes maximum industrial water in India.
- 60. (b) Rabindranath Tagore was the first Indian ever to receive a Nobel Prize. He was awarded the Nobel Prize for Literature in recognition of his work Geetanjali, a collection of poems, in 1913.
- 61. (b) The Quit India Movement (August Kranti), was a civil disobedience movement launched in India on 9 August 1942 by Mohandas Karamchand Gandhi.
- 62. (a) The current sequence is Troposphere-Stratosphere-Mesosphere-Ionosphere-Exosphere
- 63. (d) The Earth and the atmosphere are heated by energy from the sun. The atmospheric heat budget of the Earth depends on the balance between insolation and outgoing terrestrial radiation.

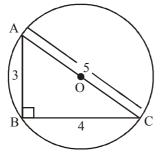
- 64. (c) Reverse transcription were discovered by Howard Temin and independently isolated by David Baltimore.
- 65. (d) Steam will produce more severe burns than boiling water because steam has more heat energy than water due to its latent heat of vaporisation.
- 66. (c) Fructose is the sweetest of all natural sugar types.
- 67. (c) Zone melting, any of a group of techniques used to purify an element or a compound or control its composition by melting a short region (i.e., zone) and causing this liquid zone to travel slowly through a relatively long ingot, or charge, of the solid.
- 68. (d) The troposphere is the first layer above the surface and contains half of the Earth's atmosphere. Weather occurs in this layer. This is closest to the Earth's surface, extending up to about 10-15 km above the Earth's surface.
- 69. (b) 'Dentrification' is the biological conversion of nitrate to nitrogen gas, nitric oxide or nitrous oxide. These compounds are gaseous compounds and are not readily available for microbial growth; therefore they are typically released to the atmosphere.
- 70. (c) Bit (Binary digit) = a bit can only have one of two possible values.
 - Byte = 1 byte = 8 bits
 - Field = one or more bits/bytes holding a single piece of information about a single entity
 - Record (Logical) = all the fields which apply to a single entity (except for "Inverted" files)
 - File = all the records which apply to a collection of entities
 - Database = a related collection of Files.
- 71. (b) Holstein Friesians are a breed of cattle known today as the world's highest-production dairy animals. They are found in Europe and America.
- 72. (d) The Indian National Congress was founded on December 28, 1885, by members of the Theosophical Society. The founders included a prominent member of the Theosophical Society, Allan Octavian Hume as well as Dadabhai Naoroji and Dinshaw Wacha.
- 73. (d) Modern Bangladesh emerged as an independent nation in 1971 after achieving independence from Pakistan in the Bangladesh Liberation War. The Provisional Government of Bangladesh was formed on 17 April 1971.
- 74. (a) 'Brahmo Samaj' was founded by Raja Ram Mohan Roy in 1828
- 75. (d) Pulses plants belong to the family Leguminosae.
- 76. (d) Vijaya Lakshmi Pandit became the first woman to be elected president of the UN General Assembly in 1953. She was an Indian diplomat, politician, and a sister of India's first prime-minister, Jawaharlal Nehru. She was active in the Indian freedom movement and held high national and international positions.
- 77. (d) The one rupee note bears the signature of secretary ministry of Finance.

- 78. (a) The currency of Saudi Arabia is Saudi Riyal.
- 79. (d) After independence, the government passed Reserve Bank (Transfer to Public Ownership) Act, 1948 and took over RBI from private shareholders after paying appropriate compensation. Thus, nationalisation of RBI took place in 1949 and from January 1, 1949, RBI started working as a government owned central bank of India.
- 80. (d) Garba is a folk dance of state of Gujarat.
- 81. (b) NABARD is set up as an apex Development Bank with a mandate for facilitating credit flow for promotion and development of agriculture, small-scale industries, cottage and village industries, handicrafts and other rural crafts. It was established on 12 July 1982 by a special act by the parliament
- 82. (b) Surplus budget is the order of the economies in boom time
- 83. (b) G. V Mavalankar was the first speaker of the Lok Sabha.
- 84. (d) Plural voting is the practice whereby one person might be able to vote multiple times in an election.
- 85. (a) Sugarcane shows chloroplast dimorphism. The presence of bundle sheath with chloroplast in the leaves is granulated and lacking in starch. Such feature is known as chloroplast dimorphism.
- 86. (c) The equator receives equal day and night throughout the year because it does not tilt in relation to the sun's location. Because of the tilted axis of the Earth, the poles and locations away from the equator lean towards or away from the sun as an orbit is completed, while the equator stays in essentially the same location relative to the sun.
- 87. (b) Economic profit is the difference between total revenue and total opportunity cost. If a firm's total opportunity cost is less than the total revenues then the firm is making economic profit. If a firm's total opportunity cost is greater than the total revenues then the firm is making economic losses. It is similar to optimum profit.
- 88. (b) The tropical rainforest is earth's most complex biome in terms of both structure and species diversity. It occurs under optimal growing conditions, abundant precipitation and year round warmth. Mean monthly temperatures are above 64 °F; precipitation is often in excess of 100 inches a year. There is usually a brief season of reduced precipitation. In monsoonal areas, there is a real dry season but that is more than compensated for with abundant precipitation the rest of the year.
- 89. (a) pleiotropic gene is a gene that causes a number of distinct but seemingly unrelated phenotypic effects.
- 90. (a) podsol soil is a soil that develops in temperate to cold moist climates underconiferous or heath vegetation; an organic mat over a grey leached layer.
- 91. (b) Antoine-Henri Becquerel (1852-1908) is known for his discovery of radioactivity, for which he received the Nobel Prize for Physics jointly with Marie Curie) and Pierre in 1903 and the contributions he made to that field. Henri Becquerel discovered radioactivity, and Mari Curie coined the term.

- 92. (c) Coagulation removes dirt and other particles suspended in water. Alum and other chemicals are added to water to form tiny sticky particles called "floc" which attract the dirt particles. The combined weight of the dirt and the alum (floc) become heavy enough to sink to the bottom during sedimentation.
- 93. (c) Retroviral integrase (IN) is an enzyme produced by a retrovirus (such as HIV) that enables its genetic material to be integrated into the DNA of the infected cell.
- 94. (c) Voting is the process of selecting representatives.
- 96. (b) Allan Octavian Hume was a civil servant, political reformer in British India who initiated the movement to form the Indian National Congress.
- 97. (a) All are correct
- 98. (d) Constitutional monarchy is a form of government in which a king or queen acts as Head of State. The ability to make and pass legislation resides with an elected Parliament, not with the Monarch.
- 99. (c) Popular sovereignty or the sovereignty of the people is the principle that the authority of the government is created and sustained by the consent of its people, through their elected representatives (Rule by the People), who are the source of all political power.
- 100. (c) Granite and quartzite areas have upstanding look because these rocks are not easily eroded

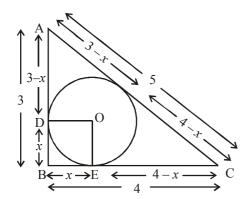
PART-C: QUANTITATIVE APTITUDE

101. (c) Here the side of triangle are3, 4 and 5. So triangle is right angle triangle.When triangle is circumscribed (C₁)



Radius of circle = $\frac{5}{2}$

When triangle is Inscribed (C_2)



Let BE =
$$x$$

Then DE = x (triangle)
CE= $4-x$
AC = $3-x+4-x$

$$\Rightarrow 5 = 7 - 2x$$
$$x = 1$$

Now,

$$\frac{\text{Area of } C_1}{\text{Area of } C_2} = \frac{\pi r_1^2}{\pi r_2^2}$$

$$\frac{\pi(1)^2}{\pi\left(\frac{5}{2}\right)^2} = \frac{4}{25}$$

102. (d)
$$x = \frac{1}{\sqrt{2} + 1} \times \frac{\sqrt{2} - 1}{\sqrt{2} - 1} = \sqrt{2} - 1$$

Now,
$$x + 1 = \sqrt{2} - 1 + 1 = \sqrt{2}$$

103. (a) Monthly savings = $\frac{60}{360} \times 36000$ = ₹6000Yearly savings = 6000×12

104. (b) Let Total Expendition be $\mathfrak{T}x$

$$\frac{x \times (70^{\circ} - 54^{\circ})}{360} = 1600$$

$$\Rightarrow \frac{x \times 16}{360} = 1600$$

$$x = ₹36000$$

Expenditure on food =
$$\frac{120^{\circ}}{360} \times 36000 = ₹12000$$

- 105. (a) Ratio of Expenditure = $\frac{120}{60} = \frac{2}{1} = 2 : 1$
 - 06. (a) Correct Average Marks $= 88 \frac{(86 68)}{6}$

$$= 88 - 3$$

= 85

- 107. (d) Highest Average in two Innings = $\frac{60 + 80}{2}$ = 70.
- 108. (c) Less score in second innings by player pujara = 10 Average score in two innings = $\frac{70+10}{2}$ = 40
- 109. (c) Average score in second Innings $= \frac{80 + 50 + 10 + 20}{4} = \frac{160}{4} = 40.$
- 110. (c) Total score in 1st Innings = 60 + 50 + 70 + 30 = 210.
- 111. (d) According to question
 Volume of sphere= surfae area of shpere

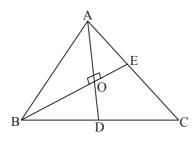
$$\Rightarrow \frac{4}{3}\pi r^3 = 4\pi r^2$$

$$\Rightarrow r = 3cm$$
diameter = 6 cm

112. (c) Average speed = 75k/h Distance = 1050 kms

Time taken to cover the distance = $\frac{1050}{75}$ = 14 hrs.

113. (a) Given AD = 9 cmBE = 12 cm



Here AD and BE Intersect at O (AD \perp BE)

$$AO = \frac{2}{3} \times AD = \frac{2}{3} \times 9 = 6 \text{ cm}$$

$$OB = \frac{2}{3} \times BE = \frac{2}{3} \times 12 = 8 \text{ cm}$$

$$AB = \sqrt{(AO)^2 + (OB)^2}$$

$$= \sqrt{(6)^2 + (8)^2}$$

$$= \sqrt{36 + 64}$$

$$= 10 \text{ cm}$$

114. (c) Given that

$$2\sin^{2}\theta + 3\cos^{2}\theta$$
= 2(1 - \cos^{2}\theta) + 3\cos^{2}\theta
= 2 - 2\cos^{2}\theta + 3\cos^{2}\theta
= 2 + \cos^{2}\theta

For minimum value $\cos\theta = 0$

Minimum value of $2\sin^2\theta + 3\cos^2\theta = 2$

115. (d) Angles are =
$$(x + 15^\circ)$$
, $\left(\frac{6x}{5} + 6^\circ\right)$ and $\left(\frac{2x}{3} + 30^\circ\right)$

We know that

Sum of the angles of a triange is 180°.

$$\Rightarrow x + 15^{\circ} + \frac{6x}{5} + 6^{\circ} + \frac{2x}{3} + 30^{\circ} = 180$$
$$\Rightarrow \frac{15x + 18x + 10x}{15} + 51 = 180$$

$$\Rightarrow \frac{43x}{15} = 180 - 51 = 129$$
$$\Rightarrow 43x = 129 \times 15$$
$$x = 45^{\circ}$$

Then angle are =
$$(45+15^\circ)$$
, $\left(\frac{6\times45}{5}+6^\circ\right)$ and

$$\left(\frac{2\times45}{3}+30^{\circ}\right)$$

$$=60^{\circ}, 60^{\circ}, 60^{\circ}$$

So this is an equilateral triangle.

116. (b) The value of = v - e + f

$$=8-12+6=2$$
.

117. (a) For surface Area of 5 persen

$$\pi r^2 = 5 \times 16$$

$$r^2 = \frac{80}{\pi}$$

Now, volume of cone = volume of air space of 5 person

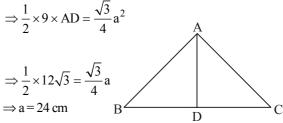
$$\Rightarrow \frac{1}{3}\pi r^2 h = 5 \times 100$$

$$\Rightarrow \frac{1}{3}\pi \times \frac{80}{\pi} \times h = 5 \times 100$$

$$h = \frac{75}{4} = 18.75$$

118. (d) Let ABC is equilateral triangle. Where sides is a cm.

$$\Rightarrow$$
 Area of equilateral triangle = $\frac{V_3}{4}a^2$



Now, Area of triangle =
$$\frac{\sqrt{3}}{4}a^2$$

= $\frac{\sqrt{3}}{4} \times 24 \times 24$
= $148\sqrt{3}$ cm

119. (d) 1st successive discount final rate

$$= -x - 4 + \frac{xy}{100}$$
$$= -40 - 30 + \frac{40 \times 30}{100}$$
$$= -70 + 12$$

2nd successive discount final rate

$$= -95 - 20 + \frac{95 \times 20}{100}$$

=-65+9=-56%

Let mare price be MP

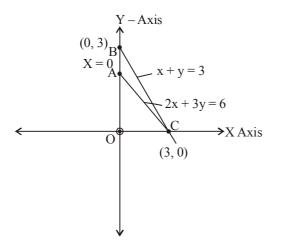
then MP
$$\times \frac{58}{100}$$
 - MP $\times \frac{56}{100}$ = 12

$$\Rightarrow \frac{MP \times 2}{100} = 12$$

120. (b)
$$x=0$$
 ...(1)

$$2x + 3y = 6$$
 ...(2)

$$2x + y = 3$$
 ...(3)



$$2x+3y=6$$
 ...(ii)
 $x=0, y=2$
 $x=3, y=0$
From eqn. (iii) $x+y=3$
 $x=0, y=3$

$$x = 3, y = 0$$

Area made by these three lines

= Area of triangle OBC – Area of OAC

$$= \frac{1}{2} \times 3 \times 3 - \frac{1}{2} \times 2 \times 3$$
$$= \frac{9}{2} - 3 = \frac{3}{2} = 1\frac{1}{2} \text{sq.}$$

- 121. (a) 2x 3y = 0 is passing through origion because its satisfy x = 0 and y = 0.
- 122. (c) Given fraction

$$x^{8} - 1 = (x^{4} + 1)(x^{2} + 1)(x - 1)(x + 1)$$

 $x^{4} + 2x^{3} - 2x - 1 = (x - 1)(x + 1)^{3}$

HCF of Given fractor = $(x-1)(x+1) = x^2 - 1$

123. (b) LCM of 6, 9, 12, 15 and 18

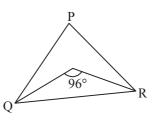
LCM = $2 \times 3 \times 3 \times 2 \times 5 = 180$ Least number = 180 + 2 = 182

124. (a)
$$\angle QPR = 90 + \frac{\angle P}{2}$$

$$\Rightarrow 96^{\circ} = 90^{\circ} + \frac{\angle P}{2}$$

$$\Rightarrow \frac{\angle P}{2} = 6^{\circ}$$

$$\therefore \angle P = 12^{\circ}$$



125 (d) Final rate of interest for two pens

$$= x + y + \frac{xy}{100}$$
$$= 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

Let principal be P.

$$\Rightarrow P \times \frac{121}{100} = 12100$$

$$P = 100 \times 100 = ₹10000$$

126. (d) A's 2 days work = B's 3 days work. A complete a work in 8 days

A's 1 days work =
$$\frac{1}{8}$$
 days

A's 2 days work =
$$\frac{1}{8} \times 2 = \frac{1}{4}$$
 work.

Now, B's 3 days work =
$$\frac{1}{4}$$
 work

B's 1 days work =
$$\frac{1}{12}$$
 work

.. B's will take 12 days to complet the work.

127. (d) Sum of the angle of a triangle = 180°

$$\Rightarrow 2x^{\circ} + 3x^{\circ} + 5x^{\circ} = 180^{\circ}$$

$$\Rightarrow 10x^{\circ} = 180^{\circ}$$

$$x^{\circ} = 18^{\circ}$$

Angle are = 36° , 54° , 90° So, this is right angles triangle.

128. (d) According to question

$$\frac{2+x}{5+x} = \frac{5}{6}$$

$$\Rightarrow 12+6x=25+5x$$

$$x=25-12=13.$$

129. (c) Let angles are x and y rad.

...(i)
$$x + y = \frac{22}{9}$$

 $x-y=36^{\circ}$

$$x + y = \frac{22}{9} \times \frac{180}{\pi} = \frac{440^{\circ}}{\pi} = 140^{\circ}$$
 ...(ii)

Now, on solving each (i) and (ii), we get

 $x = 68^{\circ}$, and $y = 52^{\circ}$

So, smaller angle = 52°

130. (d) Now, $M_1d_1 = M_2d_2$ $\Rightarrow (4M+6W) \times 8 = (2M+9W) \times 8$ $\Rightarrow 4M+6W=2M+9W$ $\Rightarrow 2M=3W$

$$1 M = \frac{3}{2} W$$

Now,
$$4M + 6W = 4 \times \frac{3}{2}W + 6W = 12W$$

Here 12W complete a work in 8 days. So, let 18 women complete a work in x days

$$12W \times 8 = 18W \times x$$

$$x = \frac{12 \times 8}{18} = \frac{16}{3} \text{ days}$$

$$= 5\frac{1}{3} \text{ days}$$

131. (d) Given that

$$\frac{x^{24} + 1}{x^{12}} = 7$$

$$\Rightarrow x^{12} + \frac{1}{x^{12}} = 7$$

On cubing both sides we get

$$\Rightarrow x^{36} + \frac{1}{x^{36}} + 3 \cdot x^{12} \frac{1}{x^{12}} \left(x^{12} + \frac{1}{x^{12}} \right) = 343$$

$$\Rightarrow x^{36} + \frac{1}{x^{36}} + 3 \times 7 = 343$$

$$\Rightarrow \frac{x^{72} + 1}{x^{36}} = 343 - 21 = 322$$

132. (b) 5x+9y=5 ...(i)

$$125x^3 + 729y^3 = 120$$
 ...(ii)

Now cube both sides of equation (i), we get

$$\Rightarrow (5x+9y)^3 = (5)^3$$

$$\Rightarrow 125x^3 + 729y^3 + 135xy(5x+9y) = 125$$

$$\Rightarrow 125x^3 + 729y^3 + 135xy \times 5 = 125$$

Now, put the value of equation (i)

$$120 + 135 xy \times 5 = 125$$
⇒
$$135 \times 5xy = 125 - 120$$
⇒
$$135 \times 5xy = 5$$

$$xy = \frac{5}{135 \times 5} = \frac{1}{135}$$

133. (*) 4 M = 8w

$$\therefore 1M = 2w$$

Now,
$$6M + 12 w = 6 \times 2w + 12w$$

= $12w + 12w$
= $24 w$

Now,
$$M_1 d_1 = M_2 d_2$$

$$\Rightarrow 8w \times 15 = 24 w \times d_2$$

$$\Rightarrow \quad \therefore \ d_2 = \frac{8w \times 15}{24} = 5 \text{ days}$$

None of the options is correct

134. (b)
$$\sin^2 22^\circ + \sin^2 68^\circ + \cot^2 30^\circ$$

 $= \sin^2 (90 - 68)^\circ + \sin^2 68^\circ + \cot 230^\circ$
 $= \cos^2 68^\circ + \sin^2 68^\circ + \cot^2 30^\circ$
 $= 1 + (\sqrt{3})^2$
 $= 1 + 3 = 4$

135. (c) $100 \xrightarrow{10 \downarrow} 90 \xrightarrow{20 \downarrow} 72 \xrightarrow{25\% \downarrow} 54$ Required single discount = (100 - 54)% = 46%

136. (a)
$$\tan(4\theta - 50^{\circ}) = \cot(50^{\circ} - \theta)$$

 $\Rightarrow \tan(4\theta - 50^{\circ}) = \tan(90 - (50^{\circ} - \theta))$
 $\Rightarrow 4\theta - 50^{\circ} = 90 - 50^{\circ} + \theta$
 $\Rightarrow 3\theta = 90^{\circ}$
 $\theta = 30^{\circ}$.

137. (a) Now according to question. $100 \times CP = 60 \times SP$

$$\Rightarrow \frac{SP}{CP} = \frac{100}{60} = \frac{5}{3}$$

Both sides substract 1

$$\Rightarrow \frac{SP - CP}{CP} = \frac{5 - 3}{3} = \frac{2}{3}$$

Percentage loss = $\frac{2}{3} \times 100 = 66 \frac{2}{3} \%$

138. (c)
$$5 \sin \theta = 3$$

 $\sin \theta = \frac{3}{5}$
 $b = \sqrt{(5)^2 - (3)^2} = \sqrt{16} = 4$
 $\tan \theta = \frac{3}{4}$, $\cos \theta = \frac{4}{5}$ $\Rightarrow \sec \theta = \frac{5}{4}$

Now,
$$\frac{\sec \theta - \tan \theta}{\sec \theta + \tan \theta} = \frac{\frac{5}{4} - \frac{3}{4}}{\frac{5}{4} + \frac{3}{4}} = \frac{2}{8} = \frac{1}{4}$$

139. (d) Let the number be x

$$\Rightarrow \frac{3}{4}x = \frac{1}{6}x + 7$$

$$\Rightarrow \frac{3}{4}x - \frac{1}{6}x = 7$$

$$= \frac{+9x - 2x}{12} = 7$$

$$\frac{7x}{12} = 7 \therefore x = 12$$

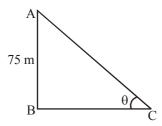
Now,
$$\frac{5}{3}$$
 of $x = \frac{5}{3} \times 12 = 20$.

140. (d) For 20 natural last odd number = $1 + (20 - 1) \times 2$ = 39

Arithmetic mean of odd number

$$=\frac{n+1}{2}$$
$$=\frac{40}{2}=20$$

141. (b)



$$\cot \theta = \frac{BC}{AB}$$

$$\Rightarrow \frac{8}{15} = \frac{BC}{75}$$

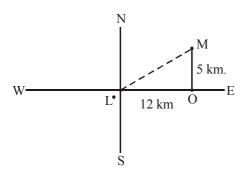
$$\Rightarrow BC=40$$

$$AC = \sqrt{(BC)^2 + AB^2}$$

AC =
$$\sqrt{(75)^2 + (40)^2}$$

= $\sqrt{5625 + 1600}$
= $\sqrt{7225} = 85$ cm.

142. (d)



$$LM = \sqrt{(OL)^2 + (MO)^2}$$
$$= \sqrt{(12)^2 + (5)^2}$$
$$= \sqrt{144 + 25} = 13 \text{ km}.$$

143. (b) Let total mark of Examination be x.

$$\Rightarrow x \times \frac{36}{100} = 190 + 35$$

$$\Rightarrow \frac{x \times 36}{100} = 225$$

$$x = 625$$

144. (d) Speed =
$$90 \times \frac{5}{18} = 25 \text{ m/sec}$$

$$\text{Time} = \frac{d}{v} = \frac{180}{25}$$
= 7.2 sec.

145. (d) Now, Let discount be x%

$$975 \times \frac{(100 - x)}{100} = 897$$

$$\Rightarrow 100 - x = \frac{89700}{975}$$

$$\Rightarrow x = \frac{97500 - 89700}{975}$$

$$= \frac{7800}{975} = 8\%$$

146. (b)
$$\sec\theta + \tan\theta = p$$
 ...(i)
We know that $\sec^2\theta - \tan^2\theta = 1$
 $\Rightarrow (\sec\theta - \tan\theta)(\sec\theta + \tan\theta) = 1$
Now, Put the value of $\sec\theta + \tan\theta = p$

$$secθ - tanθ = \frac{1}{p}$$
 ...(ii)

Now, solving eqn. (i) and (ii)

$$\sec\theta = \frac{1}{2} \left(P + \frac{1}{p} \right)$$

147. (a) Given
$$P=99$$

then $P(P^2+3P+3)$
 $= P((P+1)^2+P+2)$
 $= 99 ((99+1)^2+101)$
 $= 99 \times (10000+101)$
 $= 9999999$

148. (a) Given
$$x = 2$$

then $x^3 + 27x^2 + 243x + 631$
= $8 + 108 + 486 + 631$
= 1233

149. (d) A E

Area of
$$\Box DEFB = BD \times ED$$

Area of trapezium
$$\Box CAFD = \frac{1}{2}(AC+FD) \times DE$$

Here $AC = 2AE = 2FD$

$$\Box CAFD = \frac{1}{2} 3 FD \times DE$$

Now
$$\frac{\text{Area of } || \Box DEFB}{\text{Area of trapezium } \Box CAFD} = \frac{BD \times EF}{\frac{3}{2}FD \times DE}$$

$$= \frac{BD \times ED}{\frac{3}{2} \times BD \times DE} = \frac{2}{3}$$

150. (d) Ratio

Now,
$$B^2 - A^2 = 81$$

$$\frac{A}{B} = \frac{4}{5} \quad \Rightarrow \quad \frac{B}{A} = \frac{5}{4}$$

Squaring both sides, we get

$$\Rightarrow \frac{B^2}{A^2} = \frac{25}{16}$$

both sides substract 1

$$\Rightarrow \frac{B^2 - A^2}{A^2} = \frac{25 - 16}{16} = \frac{9}{16}$$

$$\Rightarrow \frac{81}{4^2} = \frac{9}{16}$$

$$\Rightarrow$$
 $A^2 = 16 \times 9$

$$\therefore A = 12$$

PART-D: ENGLISH COMPREHENSION

- 151. (a) Arrive means to reach a destination by movement or progress; happen denotes an event coming to pass (in time, so that it is real and actual at some time); occur also means (of an event) coming to pass (in time, so that it is real and actual at some time); come means happen or arrive, example: Dawn comes early in June.
- 152. (c) The phrase call up here denotes having and bringing to mind a memory of something; bringing back knowledge from memory.
- 153. (c) Up (one's) sleeve means hidden but ready to be used: He still has a few tricks up his sleeve.
- 154. (d) The phrase day by day means gradually and progressively; "his health is weakening day by day."
- 155. (b) The police could only fire the mob when it turned violent
- 156. (c) Board means food or meals considered as a whole: board and lodging.
- 157. (d) Peruse means examine or consider with attention and in detail. "Please peruse this report at your leisure."
- 158. (a) Spume means foam or froth on the sea. Lava, poison and spit do not correspond to the given word.
- 164. (d) Nor doesn't necessarily have to appear in a sentence with the word "neither." "Nor" can start a sentence. Ex: if you've just mentioned that you don't usually wake up at 6 a.m. and you want to continue being negative, you can start another sentence with "nor": "Nor do I like to wake up at 5 a.m."
- 165. (a) In the first conditional sentences the structure is: If + simple present simple future

 If this thing happens, that thing will happen. Ex: If you don't hurry, you will miss the train. If it rains today, you will get wet.
- 166. (a) The second part of the sentence clears the ambiguity with 'approval.' Hence, nodded is the right answer.
- 167. (b) The world is facing a crisis is a meaningful sentence.
- 168. (c) The verb insist may be used as follows: She insisted on her being innocent or she insisted that she was innocent.

- 169. (b) She couldn't help but laugh does not need any improvement.
- 170. (a) I took some grapes for my mother (subject 'I' + verb + immediate object grapes).
- 171. (c) If the verb is in the past simple we use did. Ex: They went to the theatre, didn't they? She studied in New York, didn't she?
- 172. (d) Both the teams played a fair game is the correct usage.
- 173. (b) Endure means put up with something or somebody unpleasant. Ex: The new clerk had to endure a lot of unprofessional remarks.
- 174. (c) Vacillation means indecision in speech or action while steadfastness means fixed or unchanging.
- 175. (b) Placid means calm and peaceful, with little movement or activity while stormy means characterized by violent emotions or behaviour.
- 176. (a) Effeminacy means the traits in a human boy or man that are more often associated with feminine nature, behaviour, mannerisms, style or gender roles which are opposite to the manliness.
- 177. (d) Something that you say which means it is better to keep what you have than to risk losing it by trying to get something better If I were you I'd accept the money they're offering. After all, a bird in the hand is worth two in the bush.
- 178. (b) Luggage means suitcases, trunks, etc, containing personal belongings for a journey; baggage. It is never used in plural form.
- 179. (b) Just outside my house is a playground for school boys and girls. Playground is in singular, hence, is.
- 180. (c) Mule means the offspring of a donkey and a horse (strictly, a male donkey and a female horse) which is not tall.
- 181. (a) Who should be replaced with 'whom' as it signifies the objective case of 'who.'
- 182. (c) Voluntary means of your own free will or design; done by choice; not forced or compelled.
- 183. (a) Fugitive is one who is sought by law officers; someone trying to elude justice.
- 184. (d) Dexterous is the one who is skilful in physical movements; especially of the hands.
- 185. (b) Improvident means not provident; not providing for the future.
- 186. (c) Laudable means worthy of high praise.
- 187. (d) An experienced person who has been through many battles; someone who has given long service is called a veteran.
- 188. (b) The branch of anthropology that studies prehistoric people and their cultures through their material remains is called archaeology.
- 191. (d) Compensate means here make payment to; compensate
- 192. (d) Leave somebody high and dry means leave him alone to do the work.
- 193. (d) If you are making a mountain out of a molehill, it means you are exaggerating things, blowing them out of proportion.
- 194. (c) The idiom spills the beans means revealing the secret information.
- 195. (c) A snake in the grass means a hidden enemy.