PC

130,858

DI 2014

Test Form No. टेस्ट फार्म संख्या 888 LO 1

Time Allowed: 2 Hours

Maximum Marks : 200

निर्धारित समय : 2 घंटे

अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions.

This Booklet contains questions in English as well as in Hindi.

प्रश्नों के उत्तर देने से पहले निम्नलिखित अनुदेशों को ध्यान से पढ़ लें। इस पुस्तिका में प्रश्न अंग्रेजी तथा हिन्दी दोनों में दिये गये हैं।

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 200 questions in all comprising the following four Parts:

Part - A : General Intelligence & Reasoning (50 Questions)

Part - B : General Knowledge and

(50 Questions)

General Awareness Part - C : Quantitative Aptitude

(50 Questions)

Part - D : English Comprehension

(50 Questions)

2. In questions set bilingually in English and Hindi, in case of discrepancy, the English version will prevail.

- All questions are compulsory and carry equal marks.
- 4. The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.
- 5. Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-32) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.
- 6. You will be supplied the Answer Sheet separately by the Invigilator. You must complete and code the details of Name, Roll Number, Ticket Number, Date of birth and Test Form Number on Side-I of the Answer Sheet carefully. You must also put your signature and Left-Hand thumb impression on the Answer Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your Answer Sheet will not be evaluated and you will be awarded 'ZERO'
- Answers must be shown by completely blackening the corresponding ovals on Side-II of the Answer Sheet against the relevant question number by Black/Blue Ball-point Pen only. Answers which are not shown by Black/Blue Ball-point Pen will not be awarded any mark.
- 8. A machine will read the coded information in the OMR Answer Sheet. In case the information is incomplete or different from the information given in the application form, such candidate will be awarded 'ZERO' mark.
- 9. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- 10. Failure to comply with any of the above Instructions will render a candidate liable to such action/penalty as may be deemed fit.
- 11. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 32), which you should read carefully before actually answering the questions.
- 12. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- 13. No rough work is to be done on the Answer Sheet. Space for rough work has been povided below the questions.
- 14. "Mobile phones and wireless communication devices are completely banned in the examination halk/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature and future debarrment from appearing in examinations conducted by Staff Selection Commission.

उम्मीदवारों के लिए अनुदेश

इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नतिखित जार भाग शामिल हैं :

माग – क : सामान्य बुद्धिमत्ता एवं तर्कशक्ति,

(50 মংন)

माग – ख : सामान्य ज्ञान एवं सामान्य जानकारी

(५० प्रश्न)

भाग – ग : संख्यात्मक अभिरुचि

(50 प्रश्न) (50 ਸ਼ਖ਼ਜ)

- माग घ : अंग्रेजी परिज्ञान
 - अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने
- को स्थिति में अंग्रेजी विवरण मान्य होगा। ममी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
- प्रश्न पत्र में नकारास्थक अंकन होगा । हर गलत उत्तर के लिए 0.25 अंक काटा
- प्रश्नों के उन्तर देने से पहले आप इस पुस्तिका की जांच करके देख लें कि इसमें पूरे पूछ (1-32) हैं तथा कोई पूछ कम या दबारा तो नहीं आ गया है। यदि आप इस पुल्तिका में कोई त्रुटि पार्ये, तो तत्काल इसके बदले इसरी पुस्तिका से लें।
- निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जायेगी। उत्तर-पत्रिका के Side-ा में नियमावली के अनुसार ध्यानपूर्वक अपना नाम, रोल नम्बर, टिकट नम्बर, जन्म तिथि और टेस्ट फार्म संख्या अवश्य लिखें । प्रश्नों के उत्तर वास्तव में शुरु करने से पहले उत्तर-पत्रिका पर निर्धारित स्थान में आप अपने हस्ताक्षर एवं बाये हाथ के अंगुठे का निशान भी अवश्य लगाएँ । उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए, अन्यथा आपकी उत्तर-पत्रिका को जांचा नहीं जायेगा और शन्य' अंक दिया जाएगा t
- उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्बन्धित अण्डाकार लानों को केवत काला/नीला बाल-पाइट पेन से पूरी तरह काना करके दिखाएँ। जो अण्डाकार खाने काला/नीला बॉल-पाइंट पेन से नहीं भरे जाएंगे, उनके लिए कोई अंक नहीं दिया जाएगा।
- ओ.एम,आर. उत्तर-पत्रिका में भरी गई कृट सूचना को एक मशीन पढ़ेगी। यदि सूचना अपूर्ण है अथवा आवेदन प्रपत्र में दी गई सूचना से भिन्न है, तो ऐसे अम्यर्थी को 'शुन्य' अंक दिया जाएगा।
- परीक्षा-भवन छोड़ने से पहले परीक्षायों को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए ।
- अपर के अनुदेशों में से किसी एक का भी पालन न करने पर उम्मीदवार पर विवेकानुसार कार्यवाही की जा सकती है या दण्ड दिया जा सकता है।
- विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 32) में छपे हुए निर्देशों में दे दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वकं पद्ग र्ले।
- प्रश्नों के उत्तर जित्नी जल्दी हो सके तथा ध्यानपूर्वक दें । कुछ प्रश्न आसान तथा कुछ कठिन हैं । किसी एक प्रश्न पर बहुत अधिक समय न लगाएं ।
- 13. कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ कार्य के लिए स्थान प्रश्नों के निचे दिया गया है।
- "परीक्षा हालों/कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी तरह निषिद्ध हैं। प्रत्याशियों को उनके अपने हित में सलाह दी जाति है कि मोबाइस फोन/किसी अन्य बेतार संचार साधन को स्विच ऑफ करके मी अपने पास न रखें। इस प्रावधान का अनुपासन न करने को परीक्षा में अनुचित उपार्थों का प्रयोग माना जाएगा और उनके विरुद्ध कारवाई की जाएंगी, उनकी अम्पर्थिता रह कर देने सहित भविष्य में कर्मचारी चयन आयोग द्वारा आयोजित की जाने वाली परीक्षाओं में सम्मिलित होने से मी बंचित किया जायेगा।"

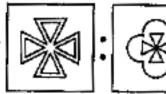
इस पुस्तिका की सील तब तक न खोलें जब तक कहा न जाए

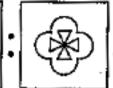
PART - A : GENERAL INTELLIGENCE & REASONING

Directions: In question nos. 1 to 7, select the related word/letter/number/figure from the given alternatives.

- 1. Conventional: Modern:: Rebellious:?
 - (A) Aggressive
- (B) Revolting
- (C) . New
- (D) Conforming
- 2. Botany : Plants :: Entomology : ?
 - (A) Insects
- (B) Brain
- (C) Blood
- (D) Skull
- 3. BZDX : FIHG :: JRLP : ?
 - (A) NMKL
- (B) NNLQ
- (C) NNPL
- (D) NMLR
- 4. RADAR : RADAR :: WAR : ?
 - (B) WRA
 - (A) RWA (C) WRR
- (D) RAW
- 5. 12 : 245 :: 13 : ?
 - (A) 265
- (B) 270 (C) 275
- (D) 280

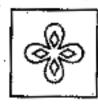
- **6.** 81 : 8 :: ?
 - (A) 128:13
- (B) 136:9
- (C) 124:5
- (D) 144:11
- 7. Question figures







Answer figures









- (A)
- (B)
- (C)
- (D)
- 8. In the following group of letters, the number of letters skipped follow the pattern, of letters skipped after each letter as, one, two, one, two... Which of the following letter series observes the rule given above?
 - (A) ACFIKNP
- (B) GIKMPSU
- (C) DFIKNPS
- (D) JLOQSWY
- 9. How many 'M' are there in the following letter series which are not immediately preceded by 'H' but immediately followed by 'R' ?

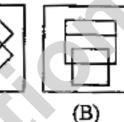
HPMXTMRHMRCKMHPTLMRNUSRMH

- (A) 4
- (B) 3
- (C) 2
- (D) 1

Directions: In question nos. 10 to 14, find the odd word/letters/number/figure from the given alternatives.

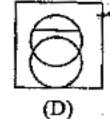
- 10. (A) Sparrow
- (B) Eagle
- (C) Bat
- (D) Pigeon
- 11. (A) Equality
- (B) Democracy
- (C) Justice
- (D) Liberty
- 12. (A) 48
- (B) 66
- (C) 82
- (D) 99
- 13. (A) 90:14
- (B) 156:12
- (C) 160:10
- (D) 132:22

14.









- (A)
- 15. Which one of the given responses would
 - be a meaningful order of the following?
 - District
- Continent
- 3. Country

- 4. State
- Village
- (A) 3, 4, 5, 1, 2 (B) 3, 2, 4, 1, 5
- (C) 5, 1, 4, 3, 2 (D) 5, 1, 4, 2, 3
- 16. Arrange the following words as per order in the dictionary.
- 1. Catapult 2. Cathedral 3. Catalogue
- Catenation 5. Catastrophe
- (A) 3, 1, 5, 2, 4 (B) 3, 1, 5, 4, 2
- (C) 3, 5, 1, 4, 2 (D) 3, 4, 2, 5, 1
- 17. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

ad _ bac _ bd _ c _

- (A) bcad
- (B) bcda
- (C) bdca
- (D) bdac

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

- 18. SCD, TEF, UGH, ____, WKL
 - (A) CMN
- (B) VIJ
- (C) IJT
- (D) UJI
- 19. 4, 9, 20, 43, 90, ?
 - (A) 180
- (B) 182
- (C) 179
- (D) 185
- . 42 20. 97, 96, 92, 83,

 - (A) 50 (B) 70
- (C) 67
- (D) 80
- 21. Question figures









Answer figures





(B)





- 22. A mother's age is a square of her daughter's age. After 5 years, mother will be three times as old as her daughter. What is the present age of the mother?
 - (A) 29 years
- (B) 25 years
- (C) 36 years
- (D) 20 years
- 23. Anita is the mother of Bindu. Chinmay is the son of Anita. Devesh is the brother of Varsha. Varsha is the daughter of Bindu. Who is grandmother of Devesh?
 - (A) Anita
- (B) Bindu
- (C) Chinmay
- (D) Varsha
- 24. Bindu is elder then Nandu. Nandu is elder than Tarak. Tarak is younger than Oly. Prem is elder than Bindu. Kitu is elder than Prem. Who is the eldest?
 - (A) Bindu
- (B) Prem
- (C) Kitu
- (D) Nandu

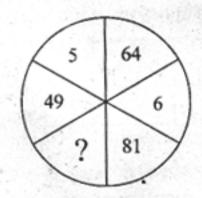
25. From the given alternatives select the word which can be formed using the letters giver in the word.

ENCOURAGEMENT

- (A) ENGAGEMENT
- (B) ENCOUNTER
- (C) GENERATION
- (D) GENERAL
- 26. From the given alternatives select the word which cannot be formed using the letters of the given word.

DAUGHTER

- (A) DATE
- (B) TOUGH
- (C) TEAR
- (D) HEART
- 27. If NARGRUED is the code for GRANDEUR which word is coded as SERPEVRE?
 - (A) PERSEVER
- (B) PRESERVE
- (C) PRESERVER
- (D) PREVERSE
- 28. If GIVE is coded as 5137 and BAT is coded as 924, how is GATE coded?
 - (A) 5427
- (B) 5724
- (C) 4527
- (D) 5247
- 29. Find the missing number from the given responses.



- (A) 36
- (B) 8
- (C) 25
- (D) 7
- 30. If > stands for division, < stands for addition, + stands for equals to, - stands for greater than, × stands for subtraction, = stands for multiplication and \(\stands \) stands for less than, then which one of the following equation is correct?
 - (A) $7 \times 5 < 4 > 3 \land 2$ (B) 7 = 5 < 4 3 = 2
 - (C) $7 \times 5 + 4 = 3 < 2$ (D) $7 5 > 4 = 3 \wedge 2$

 Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis

4+5=30, 7+4=40, 5+8=54, 9+7=?

- (A) 63
- (B) 70 (C) 72 (D) 80
- 32. Select the correct combination of mathematical signs to replace * signs and to balance the following equation

15 * 4 * 7 * 62 * 5

- (A) $\times + = .$ (B) $\times + =$
- $(C) + \times = (D) = \times +$

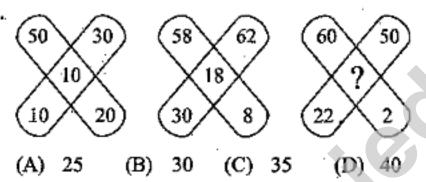
Directions: In question nos. 33 and 34, select the missing number from the given responses.

33.

8	7	4
3	4	5
5	4	6
29	32	?

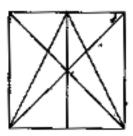
- (A) 35
- (B) 26 (C) 32
- (D) 45

34.



- 35. A man is facing North-East. He turns 45° clockwise and then turns again clockwise 90°. What direction is he facing now?
 - (A) West
- (B) East
- (C) South
- (D) South-West
- 36. Two friends M and N start walking from a point A. M starts walking towards East and N towards South. They both walk 12 and 16 km respectively. How far are they from each other?
 - (A) 18 km
- (B) 19 km
- (C) 20 km
- (D) 21 km

37. In the figure given below how many tran are there?



- (A) 10
- (B) 25
- (C) 28
- (D) 30 and above
- 38. Four positions of a dice are given bel Identify the number on the left side when right side is 4 and the number on the top is i Question figures







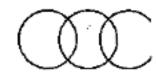


- (C)
- (D) 5
- 39. Identify the diagram that best represents relationship among classes given below:

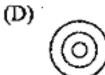
Ladies, Gents, Teachers



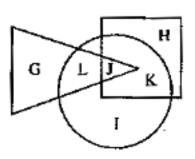
(B)



(C) 00



40. In the given figure, the triangle represe LD children, the square represents childr with Autism and the circle represents ADI children. Identify the portion which represes the children with Autism and ADHD only.



(A) I

(B)

(C) K

(D) L

Directions: In question nos. 41 and 42, two statements are given followed by two (I, II) conclusions/assumptions respectively. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions/assumptions if any, follow from the given statements.

41. Statement

: All flowers are trees. No fruit

is tree.

Conclusions: I. No fruit is flower.

II. Some trees are flowers.

(A) Only conclusion I follows .

(B) Both conclusions I and II follow

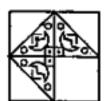
(C) Only conclusion II follows

(D) Neither conclusion I nor II follows

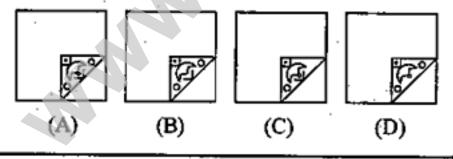
42. Statement :

A warning a train "To stop compartment train, pull chain, penalty for improper use ₹ 500."

- Assumptions: I. Some people misuse the alarm chain.
 - II. On certain occasions, people may want to stop a running train.
- (A) Only assumption I is implicit
- (B) Only assumption II is implicit
- (C) Both assumptions I and II are implicit
- (D) Neither assumption I nor II is implicit
- 43. Which answer figure will complete the pattern in the question figure? Question figure



Answer figures



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

Question figure



Answer figures









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

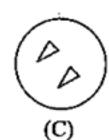
Question figures



Answer figures









46. If a mirror is placed on the line MN, ther. which of the answer figures is the right image of the given figure?

Question figure

SPNS

Answer figures

- (a) SN9S

- SNPS (d)







47. 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., 'S' can be represented by 00, 24, 43 etc., and 'L' can be represented by 58, 77, 89 etc. Similarly, you have to identify the number set for the letters given below:

KJAT

Matrix I

	0	1	2	3	4
0	S	Α	R	Y	K
1	Y	ĸ	S	A	R
2	Α	R	Y	K	S
3	K	s	A	R	Y
4	ĸ	Y	K	S	A

Matrix II

_	_			_		
		5	6	7	8	9
Ŀ	5	J	Ţ	В	L	M
[6	L	M	ĵ	Τ	В
E	7	T	В	Ĺ	M	ī
[8	M	J	T	В	L
	9	В	L	M	J	T
ь,	_					

- (A) 04, 79, 20, 87 (B) 11, 67, 23, 75
- (C) 30, 86, 01, 67 (D) 23, 89, 20, .87
- 48. Anand and Vijaya have decided to apply for a mutual divorce due to conflicts in their marriage. What would you do as Vijaya's friend?
 - (A) Scold her for taking this decision
 - (B) Give her support and listen to her problems
 - (C) Compare her with people who have lived full married lives
 - (D) Tell her it is going against our culture

49. An address has been given below, which has been reproduced against A, B, C and alternatives. Three of these have some mistal or the other. Identify the one without ar mistake.

Ericsson Limited, Ashbrook Court, Central Boulevard Prologis Park, Coventry.

- (A) Ericson Limited,
 Ashbrook Court,
 Central Boulvard
 Prologies Park, Coventry.
- (B) Ericison Limited
 Ashbrook Court
 Central Boulveard
 Prologis Park, Covenetry.
- (C) Ericsson Limited,
 Ashbrook Court,
 Central Boulevard
 Prologis Park, Coventry.
- (D) Ericsson Limited,
 Ashbrok Court,
 Central Boulevarde
 Prologis Park, Coventery.
- 50. Given below are capital letters in the firline and numbers in the second line Numbers and letters are code for each othe Choose the correct code for given letters.

C F Q R W B E D H I 5 2 9 1 7 3 8 6 4 0

EQRDCEB

- (A) 8 9 1 6 5 8 3 (B) 8 9 1 6 5 8 2
- (C) 7 9 1 6 5 8 3 (D) 8 8 1 6 5 8 3

PART - B : GENERAL KNOWLEDGE AND GENERAL AWARENI

- 51. Who was the first Chairperson of National Income Committee?
 - (A) M Vishwesharaiya
 - (B) P C Mahalanobis
 - (C) D R Gadgil
 - (D) V K R V Rao
- 52. Which one of the following country as the 147th member, has occupied WTO currently?
 - (A) Bhutan
- (B) Nepal
- (C) Uganda
- (D) Bangladesh
- 53. Who was the first vice-chairman of Planning Commission?
 - (A) K T Shah
 - (B) K C Pant
 - (C) D R Gadgil
 - (D) T T Krishnamachari
- 54. Family Planning as a Government programme at national level was first of all accepted in India in the year
 - (A) 1951
- (B) 1952
- (C) 1956
- (D) 1957
- 55. The word 'Green Revolution' was used first time by
 - (A) Dr William Gadd
 - (B) Dr Ramaswami
 - (C) Dr Lal Singh
 - (D) Dr H G Khurana
- 56. Who is the chief exponent of liberalism?
 - (A) Milton
- (B) Gettell
- (C) JS Mill
- (D) H Laski
- 57. Which country is still not a member of World Trade Organisation (WTO)?
 - (A) China
- (B) Sudan
- (C) Japan
- (D) France
- 58. Which among the following is not a member of SAARC (South Asian Association of Regional Cooperation)?
 - (A) Afghanistan
 - (B) Myanmar (Burma)
 - (C) Maldives
 - (D) Bhutan

- 59. While a resolution for the removal Speaker of the Lok Sabha is consideration, the Speaker
 - t. will have right to speak
 - 2. shall not preside
 - 3. shall be entitled to vote only first instance
 - 4. shall not be present in the House
 - (A) All of the above are true
 - (B) 1, 2 and 3 are true
 - (C) Only 1 is true
 - (D) 2 and 4 are true
- 60. Which of the following Articles of I Constitution put limitations on legis powers of Parliament and State Leguers?
 - (A) Article 13
 - (B) Article 245
 - (C) Article 246
 - (D) All of the above
- 61. The system of Judicial Review is four
 - (A) only in India
 - (B) only in Britain
 - (C) only in USA
 - (D) in both India and USA
- 62. Which one of the following qualification common to Presidential candidature in India and USA?
 - (A) Citizenship
 - (B) Minimum age
 - (C) Residential Requirement
 - (D) Eligibility for the membership of popular house of the legislature
- 63. One common point of agreement betw Indian and US Federalism is that
 - (A) residuary powers belong to the Ce
 - (B) residuary powers belong to the St.
 - (C) provision for concurrent jurisdiction certain matters
 - (D) the Supreme Court is the arbiter in event of conflict between the Cer and the States

- 64. The partition of Bengal took place in 1905 is associated with (A) Lord Curzon (B) Lord Hardinge (C) Lord Chelmsford (D) None of the above 65. The name of the new religion introduced by Akbar was (B) Din-i-ilahi (A) Dhamma (D) Quran (C) Islam 66. The Governor General who introduced the Doctrine of Lapse is (A) Lord Canning (B) Lord Dalhousie (C) Lord Hardinge (D) Lord Curzon 67. Name the National Leader who voiced the slogan "Swaraj is my birthright and I will have it" (A) Gokhale (B) Tilak (C) Bipin Chandra Pal (D) Lala Lajpat Rai 68. The Commission which marked the Border Line between India and Pakistan was (A) Red India Commission (B) Pakistan Commission (C) India Pakistan Border Line Commission (D) Red-cliff Commission 69. Which one of the following is a drought resistant rice variety of India ? (B) IET-144<u>4</u> (A) Bela (D) Padma (C) IR8 70. The most northerly point of Canada is (A) Cape Columbia (B) Cape Town (D) Capernaum (C) Cape Verda 71. The largest solar plant in India is located at (B) Narora (A) Madhapur (D) Chandrapur (C) Taicher. 72. EPZ stands for (A) Economic Promoting Zones (B) Export Promotion Zones (C) Economic Protecting Zones (D) Export Oriented Zones 73. Which one of the following is *not* the Union Territory of India ?
- 74. The small intestine of man is descriptive divided into
 (A) Heum, Jejunum, Coelom
 (B) Duodenum, Heum, Jejunum
 (C) Duodenum, Jejunum, Heum
- 75. Majority of Indian snakes are

 (A) poisonous
 (B) non-poisonous
 (C) sluggish
 (D) beautiful

(D) Duodenum, Coclom, Rectum

- 76. One of the following has the capacity (rotating its eyes on all directions)
 (A) owl (B) horse
 (C) chameleon (D) crow
- (C) chameleon (D) crow

 77. Soya bean is used as a source of
 (A) carbohydrates (B) fiber
 (C) vitamins (D) proteins

 78. The watermelon is a
- (A) drope
 (B) berry
 (C) pepo
 (D) pome

 79. For a sound it is very difficult to draw a sharp line of demarcation between
 - (A) musical sound and noise
 (B) tone and note
 (C) intensity and pitch
 (D) frequency and quality
- 80. The mechanical advantage in an inclined plane is
 (A) less than 1 (B) greater than 1
 (C) equal to 1 (D) equal to 0
- 81. van-de-Graff generator is used to (A) produce high voltage alternating current
 (B) produce high voltage direct current
 - (C) measure high voltage A.C.(D) measure high voltage D.C.
- 82. An erect and virtual image for any position of the object can be formed by
 (A) convex lens
 (B) convex mirror
 (C) concave lens
 (D) concave mirror

(A) Puducherry

(C) Chandigarh

(D) Goa

(B) Lakshadeep Island

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PART - C : QUANTITATIVE APTITUDE

- 101. $\sqrt{248 + \sqrt{52 + \sqrt{144}}} = ?$
 - (A) 14
- (B) 16
- (C) 18
- (D) 22
- 102. Find the greatest number of five digits which when divided by 3, 5, 8, 12 have 2 as remainder.
 - (A) 99999
- (B) 99958
- (C) 99960
- (D) 99962
- 103. Find out the wrong number in the series
 - 4, 5, 15, 49, 201, 1011, 4073
 - (A) 5
- . (B) 15
- (C) 49
- (D) 201
- **104.** The H.C.F. of $(a^2 + 7a + 12)$ and $(a^2 + 8a + 15)$ is
 - (A) (a+1)(a+3) (B) (a+2)(a+3)
 - (C) (a+4)(a+3) (D) (a+3)
- 105. Traffic lights at 3 different road-crossings change after 48 seconds, 50 seconds and 72 seconds respectively. If they change simultaneously at 9 a.m; at what next time will they together change again?
 - (A) 9.30 a.m. (B) 10 a.m.
- - (C) 10·40 a.m.
- (D) 11·15 a.m.
- 106. Ram alone can finish a piece of work in 12 days. Ravi alone can finish the same work in 8 days. If Ram and Ravi work together they will finish the work in
 - (A) 10 days
- (B) 4 days
- (C) $4\frac{4}{5}$ days
- (D) 20 days

- 107. A can do in 10 days a piece of work which B can do in 15 days. If both worked half time everyday, how long ** would they take to do it working together?
 - (A) $12\frac{1}{2}$ days
- (B) 12 days
- (C) 20 days
- (D) 25 days
- 108. A profit of 20% is earned when 10% discount is given on marked price for an article. If 20% discount is allowed then the profit or loss will be
 - (A) $6\frac{1}{3}\%$ profit (B) $6\frac{2}{3}\%$ loss
 - (C) $6\frac{2}{3}\%$ profit (D) $6\frac{1}{3}\%$ loss
- 109. A shopkeeper earns a profit of 15% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is
 - (A) 17:23
- (B) 18:23
- (C) 18:25
- (D) 17:25
- 110. A fraction becomes $\frac{1}{3}$ when 1 is subtracted from its numerator as well as from its denominator. If 1 is added to both its numerator and denominator it becomes $\frac{1}{2}$. Find the fraction
 - (A) $\frac{1}{7}$
- (B) $\frac{3}{7}$
- (C) ⁵/₇
- (D) None of these
- 111. The fourth proportional to the numbers 16, 9 and 8 is
 - (A) 4·5
- (B) 8·5
- (C) 11
- (D) 15

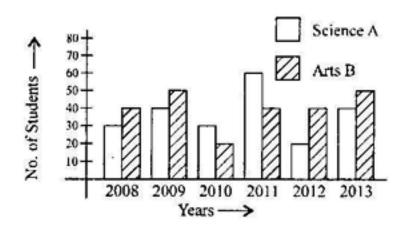
	price of three items of 15000. If their prices are	
	3:5:7, the price of the	1
	is (in Rupees)	then the
(A) 3000	(B) 9000	of pupils
(C) 5000	(D) 6000	(A) 50
113. The average	weight of 10 men is	(C) 25·5
	3 kg when one of them	118 1 man

- whose weight is 80 kg is replaced by a new person. The weight in kg of the new person is
 - (A) 60
- (B) 50
- (C) 70
- (D) 73
- 114. A person spends equal amount of money in buying two kinds of guavas, one at 3 for a rupee and the other at 2 for a rupee. If he sells these guavas at 5 for ₹2 then he will bear
 - (A) no loss no gain (B) 4% gain
 - (C) 4% loss
- (D) $3\frac{1}{3}\%$ gain
- 115. Hari buys 50 chairs for ₹ 5000 but 20 of them were damaged. He decided to sell each damaged one at three-fourth the sale price of the normal one. What should the sale price of each normal chair be in order that he may make profit of 35% on the whole?
 - (A) ₹150
- (B) ₹ 160
- (C) ₹ 125
- (D) ₹ 140
- 116. If the radius of a circle is increased by 100%, then its area is increased by
 - (A) 400%
- (B) 200%
- (C) 500%
- (D) 300%

- 500 pupils in a school 45% are the rest are girls. If 20% of the d 30% of girls wear spectacles percentage of the total number wearing spectacles is
 - (B) 25
- (D) 20
- can cover a certain distance in 3 hours 36 minutes if he walks at the rate of 5 km/hr. If he covers the same distance on cycle at the rate of 24 km/hr, then the time taken by him (in minutes) 15
 - (A) 50
- (B) 45
- (C) 40
- (D) 55
- 119. The trains are running at a speed of 50 km and 30 km/hr respectively in the same direction. The train running at 50 km/hr crosses a man in the other train in 18 seconds. The length of the first train is
 - (A) 66 metre
- (B) 86 metre
- (C) 92 metre
- (D) 100 metre
- 120. In how many years will ₹ 1000 when invested at compound interest at the rate of 5% per annum, amount to ₹ 1102.50?
 - (A) 3 years
- (B) 2 years
- (C) 5 years
- (D) 2.5 years
- 121. If the interest on a sum of money for nyears at the rate of r% simple interest per annum is $\frac{pnr}{25}$, then the principal will be
 - (A) 2p
- (B) 4p
- (C) $\frac{p}{2}$
- (D) $\frac{p}{}$

Study the following bar-diagram and answer the question nos. 122 to 125.

Number of students passed from two disciplines (Science and Arts) of a school over the years:



- 122. The total number of the students passed from science stream 'A' in the years 2008, 2010, 2012 and 2013 is
 - (A) 150
- (B) 120
- (C) 80
- (D) 140
- 123. The ratio of the number of students passed from science stream 'A' in the year 2011 and that from Arts stream 'B' in the year 2013 is
 - (A) 3:2
- (B) 4:5
- (C) 6:5
- (D) 1:1
- 124. The difference between the total number of students passed from the school in the year 2011 and the total number of students passed in the year 2013 is
 - (A) 50
- (B) 20
- (C) 30
- (D) 10

- 125. The ratio among the number of students passed in the year 2011, 2009 and 2013 from the arts stream 'B' is
 - (A) 4:5:5
- (B) 5:4:5
- (C) 5:5:4
- (D) 6:5:5
- 126. The area of the largest circle that can be drawn inside a rectangle with sides 7 metres and 6 metres is (Take $\pi = \frac{22}{7}$)

 - (A) $59\frac{2}{3}$ sq.mt. (B) $28\frac{2}{7}$ sq.mt.
 - (C) $64\frac{8}{9}$ sq.mt. (D) $39\frac{5}{3}$ sq.mt.
- 127. 50 circular plates each of radius 7 cm and thickness 0.5 cm are placed one above the other to form a right circular cylinder. Then the volume of the cylinder in sq. cm is $(\pi = \frac{22}{7})$
 - (A) 385
- (B) 1100
- (C) 7700
- (D) 3850
- 128. A triangle has sides of lengths 6 cm, 8 cm and 10 cm. The area of the circle inscribed in the triangle is

 - (A) $4\pi \text{ cm}^2$ (B) $6\pi \text{ cm}^2$
 - (C) $8\pi \text{ cm}^2$ (D) $2\pi \text{ cm}^2$
- 129. A rectangular block of volume 6 cm × 42 cm × 45 cm is cut up into exact number of equal cubes. The least possible number of cubes will be
 - (A) 420
- (B) 330
- (C) 210
- (D) 300

- 130. If the volumes of two cones are in the ratio 1:4 and their diameters are in the ratio 4:5, then the ratio of their heights is (Take $\pi = \frac{22}{7}$)
 - (A) 25:64
- (B) 5:4
- (C) 1:5
- (D) 5:16
- 131. If a = 9, b = 16, then the value of

$$\frac{a+2\sqrt{ab}+b}{\sqrt{a}+\sqrt{b}} + \frac{a-2\sqrt{ab}+b}{\sqrt{a}-\sqrt{b}}$$
 is

- (A) 6
- (B) 8
- (C) 12
- (D) 10
- 132. If $a \circ b$ is defined by $\frac{a^2 b^2}{a^2 + b^2}$, then 403

is equal to

- (A) $\frac{7}{25}$
- (B) $\frac{25}{7}$
- (C) $\frac{4}{3}$
- (D) $\frac{16}{9}$
- 133. If $\sqrt{a} + \sqrt{b} + \sqrt{c} = 0$, then the value of

$$\frac{\left(a+b-c\right)^2}{ab}$$
 is

- (A) 2
- (B) 0
- (C) 4
- (D) 8
- 134. If $x = 2 \frac{\sqrt{10}}{7}$, then the value of

$$\frac{\sqrt{1+x}-\sqrt{1-x}}{\sqrt{1+x}+\sqrt{1-x}}$$
 is

135. If $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$ and $x^2 + y^2 + z^2 = 25$, then

the value of x + y + z is/are

- (A) 0
- (B) ±1
- (C) = 2
- (D) ±5
- 136. Let AD be a median of the $\triangle ABC$ and G be the centroid. If AG = 4 cm, then the length of AD is
 - (A) 6 cm
- (B) 10 cm
- (C) 12 cm (D) 15 cm
- 137. The orthocentre of a triangle \triangle ABC is O. if $\angle BAC = 52^{\circ}$, then the measurement of $\angle BOC$ is
 - (A) 116°
- (B) 38°
- (C) 128°
- (D) 126°
- 138. In $\triangle ABC$. D. E and F are the mid-points of the sides AB, AC and BC respectively. If L and M are the mid-points of DF and EF respectively, then LM: BC is
 - (A) 1:4
- (B) 4:1
- (C) 1:3 (D) 3:1
- 139. Let O be a circumcentre of a \triangle ABC. If $\angle BAC = 85^{\circ}$, $\angle BCA = 75^{\circ}$, then $\angle OAC$ 15
 - (A) 40°
- (B) 140°
- (C) 35°
- (D) 70°
- 140. The circles touch each other externally at a point P. The straight line QR touches the two circles at Q & R respectively. Then the value of $\angle QPR$ is
 - (A) 60°
- (B) 90°
- (C) 75°
- (D) 120°

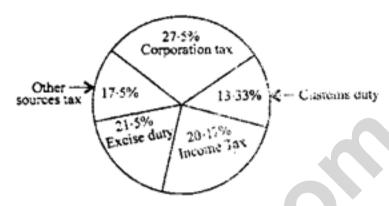
141. If
$$x = \frac{1 + \sin \theta}{\cos \theta}$$
, then $\frac{1}{x} = ?$

- (A) $\frac{\cos\theta}{1-\sin\theta}$ (B) $\frac{1+\cos\theta}{\sin\theta}$
- (C) $\frac{1-\cos\theta}{\sin\theta}$ (D) $\frac{1-\sin\theta}{\cos\theta}$
- 142. For all real A, the simplified value of the expression $\sin^6 A + \cos^6 A + 3 \sin^2 A \cos^2 A$ is
 - (A) 5
- (B) 3
- (C) 2
- (D) 1
- 143. If $\tan\theta + \frac{1}{\tan\theta} = 2$, then the value of

$$\tan^2\theta + \frac{1}{\tan^2\theta}$$
 is

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- 144. From the top of a tower 180 m high, it was observed that the angle of depression of a cat sitting on the ground was 30°. Find the distance of the cat from the foot of the tower
 - (A) 180 m
- (B) $180\sqrt{3}$ m
- (C) 170 m
- (D) $170\sqrt{3}$ m
- 145. If the shadow of a tree of 60 m height is 18 m, then the height of the tree whose shadow is 24 m at the same time of the day is
 - (A) 60 m
- (B) 70 m
- (C) 80 m
- (D) 90 m

The following pie-chart shows the collection of revenue of the Govt. of India in different departments. Study the chart and answer the question nos. 146 to 150.



- 146. Ratio of Corporation tax and Excise duty is
 - (A) 41:61
- (B) 52:43
- (C) 55:43
- (D) 27:29
- 147. Central angle in pie-chart made by Customs duty is

 - (A) 40° (approx.) (B) 45° (approx.)
 - (C) 46° (approx.) (D) 48° (approx.)
- 148. If the total revenue collected by Govt. of India is ₹ 1200 crore, then the amount of income tax earned by the Govt. is
 - (A) ₹ 240 crore (approx.)
 - (B) ₹ 241 crore (approx.)
 - (C) ₹ 242 crore (approx.)
 - (D) ₹ 245 crore (approx.)
- 149. The average revenue earned by Govt. of India is
 - (A) Corporation tax
 - (B) Income tax
 - (C) Excise duty
 - (D) Other taxes
- 150. The total percentage of Corporation tax, Customs duty and Income tax is greater than the total percentage of Excise duty and other taxes by
 - (A) 21%
- (B) 20%
- (C) 22%
- (D) 19%

PART - D: ENGLISH COMPREHENSION

Directions: In question nos. 151 to 155, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval [•] corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

(D)

151. I'm not satisfied with

(A)

your explanation of where

(B)

you was last night. No error.

(C)

152. I came into the room when

(A) (B)

Mary played the piano. No error.

(C) (D)

153. The man was driving herds of cattle.

(A) (B) (C)

No error.
(D)

154. There is some sheep in the field.

(A) (B) (C)

No error.

(D)

155. Playing the drums and (B)

singing are difficult. No error. (C) (D)

Directions: In question nos. 156 to 160, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [in the Answer Sheet.

156. The police were _____ people aside to make way for the President's car.

(A) shoving (B) relains.

156. The police were _____ people aside to make way for the President's car.

(A) shoving (B) poking
(C) nudging (D) shifting

157. He scored very low marks in the exam because of his ____ knowledge of the subject.

(A) outward (B) superficial
(C) thorough (D) deep

158. W B Yeats made several _____ to Indian mythology in his poems.

(A) allusions (B) illusions

(C) collusions (D) infusion

159. The board's meeting has been _____ to Saturday next.

(A) differed

(B) deferred

(C) deterred

(D) dittered

160. Eight scientists have _____ the national awards for outstanding contribution and dedication to their profession.

(A) picked

(B) conferred

(C) bagged

(D) discovered

Directions: In question nos. 161 to 165, out of the four alternatives, choose the one which bests expresses the meaning of the given word and mark it in the Answer Sheet.

161. Devilish

(A) mischievous

(B) unrighteous

(C) unholy

(D) sinful

162. Aromatic

(A) herbal

(B) flowery

(C) pungent

(D) fragrant

- 163. Morose
 - (A) calm
- (B) disappointed
- (C) gloomy
- (D) furious
- 164. Denounce
 - (A) remove
- (B) accuse
- (C) resign
- (D) arrest
- 165. Insolent
 - (A) dishonest
- (B) oppressive
- (C) rude
- (D) mischievous

Directions: In question nos. 166 to 170, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

- 166. Frequent
 - (A) avid
- (B) less
- (C) late
- (D) seldom
- 167. Declines
 - (A) admits
- (B) accepts
- (C) refuses
- (D) improves
- 168. Juvenile
 - (A) childish
- (B) experienced
- (C) senior
- (D) adolescent
- 169. Bonus
 - (A) drawback
- (B) penance
- (C) punishment
- (D) fine
- 170. Eternal
 - (A) timeless
- (B) change
- (C) transient
- (D) ancient

Directions: In question nos. 171 to 175, 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.

- 171. Mina did something out of character today; she gave a beggar some money.
 - (A) did not act according to a script
 - (B) did not behave in one's usual nature
 - (C) acted beyond what was required
 - (D) behaved like a hypocrite

- 172. People say that the banker is on his last legs.
 - (A) on the verge of ruin
 - (B) on his deathbed
 - (C) at the end of his wits
 - (D) at the end of his journey
- 173. You cannot rely upon a greenhorn like James.
 - (A) an inexperienced person
 - (B) a notorious fraud
 - (C) a boastful person
 - (D) a careless worker
- 174. When they called out his name as the winner of the grand prize, his jaw dropped.
 - (A) he fainted
 - (B) he screamed in joy
 - (C) he was happy
 - (D) he was astonished
- 175. A hole and corner policy is never welcomed in a democratic society.
 - (A) corrupted
- (B) secret
- (C) frail
- (D) degraded

Directions: In question nos. 176 to 180, a sentence/a part of the sentence is underlined. Below are given alternatives to the underlined part at (A), (B), (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D). Mark your answer in the Answer Sheet.

- 176. Many accidents at the factory are caused of workers who do not read warning signs.
 - (A) is the cause of
 - (B) are caused by
 - (C) are caused because
 - (D) No improvement.
- 177. The government seems to have no idea for the welfare of the common man.

 - (A) no interest in (B) no account for
 - (C) no credibility in (D) No improvement

- 178. The world community has expressed <u>critical</u> concern over recent attacks on minorities.
 - (A) active concern (B) firm concern
 - (C) grave concern (D) No improvement
- 179. The wound on his hand is close now.
 - (A) is healing now (B) is repairing now
 - (C) is cleaning now (D) No improvement
- 180. Too much worry is not good for our health.
 - (A) is beneficial
- (B) is harmful
- (C) is hurtful
- (D) No improvement

Directions: In question nos. 181 to 185, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate oval [] in the Answer Sheet.

- 181. A cluster of houses in a village
 - (A) Stack
- (B) Hamlet
- (C) Truss
- (D) Claque
- 182. Thoughtful and sad
 - (A) Vicarious
- (B) Pensive
- (C) Tenacious
- (D) Scrupulous
- 183. A number of monkeys
 - (A) Rookery
- (B) Troop
- (C) Pride
- (D) Flight
- 184. Lasting for two years
 - (A) Perennial
- (B) Biennial
- (C) Centennial
- (D) Diurnal
- 185. A speech in praise of
 - (A) An ode for
- (B) A tribute for
- (C) A culogy for
- (D) An accolade for

Directions: In question nos. 186 to 190, 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.

- 186. (A) Flamboyent
- (B) Flambayant
- (C) Flemboyant
- (D) Flamboyant

- 187. (A) Pneumonia
- (B) Pnewmonia
- (C) Pnuemonia
- (D) Neumonia
- 188. (A) Granduer
- (B) Grendeur
- (C) Grandeir
- (D) Grandeur
- 189. (A) Pecturesge
- (B) Picturesque
- (C) Picturecque
- (D) Pecturesque
- 190. (A) Aneasthesia
- (B) Anesthesia
- (C) Anaisthesia
- (D) Anaesthesia

Directions: In question nos. 191 to 200, you have two brief passages with 5 questions following each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [•] in the Answer Sheet.

PASSAGE I (Question Nos. 191 to 195)

One of the main reasons of corruption in elections today is the lure of power which haunts the politicians so much that they feel no qualms of conscience in adopting any underhand method to come out successful. Corruption thrives in elections because those in the field play on the psychology of the electorate. The voters are swayed by the tall promises of the candidates to whose machinations they fall an easy prey. They are also susceptible to fall an easy prey to the adulations of the politicians due to their illiteracy. Besides anti-corruption laws are honoured more in their breach than in their observance. Moreover, some constituencies are so big that it becomes difficult to discover and check corrupt practices.

- 191. The politicians indulge in corruption in elections now-a-days because
 - (A) of the lure of power
 - (B) of the lure of money
 - (C) elections can be won only by corrupt means
 - (D) corrupt practices in elections go unnoticed

- 192. How does corruption thrive in elections?
 - (A) The people themselves are corrupt
 - (B) A sizeable part of the society is corrupt
 - (C) The politicians exploit the electorate psychologically
 - (D) The politicians cheat the electorate economically
- 193. According to the writer, why do the voters fall an easy prey to the machinations of the politicians?
 - (A) They want to sell their votes due to poverty
 - (B) They are illiterate and do not understand what designs the politicians have on them
 - (C) They are indifferent to what happens on the political horizon
 - (D) They have no political knowledge
- 194. Why do the corrupt practices indulged in during elections go unnoticed?
 - (A) Because nobody is interested in discovering corrupt practices
 - (B) Because vested interests shield those who indulge in corrupt practices
 - (C) Because the law enforcing authorities themselves are in collusion with the politicians
 - (D) Because the constituencies are so big that it becomes difficult to discover the corrupt practices
- 195. What happens to the anti-corruption laws?
 - (A) There is actually no such thing as anti-corruption laws
 - (B) Anti-corruption laws are certainly honoured but in a limited way
 - (C) The government does not want to enforce anti-corruption laws
 - (D) Anti-corruption laws are honoured more in their breach than in their observance

PASSAGE II (Question Nos. 196 to 200)

The modern man, who is given to endless materialistic pursuits and competition, lives a fast life. Most of his time and energy are consumed by the strenuous hours of work followed by equally strenuous social anxiety and tension, because a prolonged strike anywhere can lead to scarcity of certain commodities of daily use. Given to multifarious stresses and strains, man hardly gets any time to enjoy the beauties of nature.

- 196. The passage talks about
 - (A) materialistic pursuits
 - (B) life of the modern man
 - (C) work related strain
 - (D) man and nature
- 197. Social anxiety and tension refers to
 - (A) difficulties related to maintaining relationships
 - (B) domestic violence
 - (C) social enmity
 - (D) None of the above
- 198. The meaning of "prolonged." is
 - (A) enlarged
- (B) increased
- (C) expanded
- (D) enhanced
- 199. The antonym of scarcity
 - (A) ferocity
- (B) density
- (C) abundance
- (D) limited
- 200. Strike in the passage means
 - (A) to hit someone
 - (B) an agitation
 - (C) both (A) and (B)
 - (D) None of the above