

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

Test Form No.
टेस्ट फॉर्म संख्या
013 KJ 2

AE 2013

XX

PAPER – II
प्रश्नपत्र – II

Time Allowed : 2 Hours (For V.H. Candidates : 2 hrs. 40 min.)

Maximum Marks : 200

निर्धारित समय : 2 घण्टे (दृष्टिबाधित उम्मीदवारों के लिए : 2 घण्टे 40 मिनट)

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	उम्मीदवारों के लिए अनुदेश
1. This Booklet contains 150 questions in all comprising the following two parts : Part (a) : Quantitative Methods (50 Questions) Part (b) : English Language & Comprehension (100 Questions)	1. इस पुस्तिका में कुल 150 प्रश्न हैं, जिनमें निम्नलिखित दो भाग शामिल हैं : भाग (क) : मात्रात्मक विधियाँ (50 प्रश्न) भाग (ख) : अंग्रेजी भाषा और परिज्ञान (100 प्रश्न)
2. In questions set bilingually in English and Hindi, in case of discrepancy, the English version will prevail.	2. अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा ।
3. All questions are compulsory. Questions in Part (a) and Part (b) carries two marks and one mark each respectively.	3. सभी प्रश्न अनिवार्य हैं । भाग (क) तथा भाग (ख) में हर प्रश्न के अंक क्रमशः दो और एक हैं ।
4. The paper carries negative marking. 0.50 & 0.25 mark will be deducted for each wrong answer in Part (a) and Part (b) respectively.	4. प्रश्नपत्र में नकारात्मक अंकन होगा । भाग (क) तथा भाग (ख) में हर गलत उत्तर के लिए क्रमशः 0.50 और 0.25 अंक काटा जाएगा ।
5. Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-24) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.	5. प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें पूरे पृष्ठ (1-24) हैं तथा कोई पृष्ठ कम या दुबारा तो नहीं आ गया है । यदि आप इस पुस्तिका में कोई त्रुटि पाएँ, तो तत्काल इसके बदले दूसरी पुस्तिका ले लें ।
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 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' mark. (V.H. Candidates will have to ensure that these details are filled in by the scribe. However, all V.H. Candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. Those V.H. Candidates who can sign should also put their signatures in addition to thumb impression.)	6. निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जाएगी । उत्तर-पत्रिका के Side-I में ध्यानपूर्वक अपना नाम, रोल नम्बर, टिकट नम्बर और टेस्ट फॉर्म संख्या अवश्य लिखें । प्रश्नों के उत्तर वास्तव में शुरू करने से पहले उत्तर-पत्रिका पर निर्धारित स्थान में आप अपने हस्ताक्षर एवं बाएँ हाथ के अंगूठे का निशान भी अवश्य लगाएँ । उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए, अन्यथा आपकी उत्तर-पत्रिका को जाँचा नहीं जाएगा और 'शून्य' अंक दिया जाएगा । (दृष्टिबाधित उम्मीदवार सुनिश्चित करें कि यह विवरण लिपिक द्वारा भरा जाए । परन्तु सभी दृष्टिबाधित उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बाएँ हाथ के अंगूठे का निशान अवश्य लगाएँ । जो दृष्टिबाधित उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी कर दें ।)
7. 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.	7. उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्बन्धित अण्डाकार खानों के केवल काले/नीले बॉल-पॉइंट पेन से पूरी तरह काला करके दिखाएँ । जो अण्डाकार खाने काले/नीले बॉल-पॉइंट पेन से नहीं भरे जाएँगे, उनके लिए कोई अंक नहीं दिया जाएगा ।
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.	8. ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक मशीन पढ़ेगी । यदि सूचना अपूर्ण है अथवा आवेदन प्रपत्र में दी गई सूचना से भिन्न है, तो ऐसे अभ्यर्थी को 'शून्य' अंक दिया जाएगा ।
9. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.	9. परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए ।
10. Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.	10. ऊपर 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 ।
11. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 24), which you should read carefully before actually answering the questions.	11. विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 24) में छपे हुए निर्देशों में दे दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें ।
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.	12. प्रश्नों के उत्तर जितनी जल्दी हो सके तथा ध्यानपूर्वक दें । कुछ प्रश्न आसान तथा कुछ कठिन हैं । किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ ।
13. In lieu of Question Nos. 42 to 50 relating to table/graph questions, alternate questions have been provided to be attempted by V.H. Candidates only.	13. तालिका/ग्राफ से सम्बन्धित प्रश्न संख्या 42 से 50 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं ।
14. No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions.	14. कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है । रफ़ कार्य के लिए स्थान प्रश्नों के नीचे दिया गया है ।
15. "Mobile phones and wireless communication devices are completely banned in the examination halls/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."	15. "परीक्षा हॉलों/कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी तरह निषिद्ध हैं । प्रत्याशियों को उनके अपने हित में सलाह दी जाती है कि मोबाइल फोन/किसी अन्य बेतार संचार साधन को स्विच ऑफ करके भी अपने पास न रखें । इस प्रावधान का अनुपालन न करने को परीक्षा में अनुचित उपायों का प्रयोग माना जाएगा और उनके विरुद्ध कार्रवाई की जाएगी, उनकी अभ्यर्थिता रद्द कर देने सहित ।"

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

AE 2013

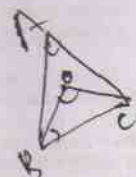
SEAL

Part - a
QUANTITATIVE METHODS

1. If $\tan \theta + \cot \theta = 2$, then the value of $\tan^{100} \theta + \cot^{100} \theta$ is
(A) 2 (B) 0
(C) 1 (D) $\sqrt{3}$
2. The angles of elevation of the top of a tower from the points P and Q at distances of 'a' and 'b' respectively from the base of the tower and in the same straight line with it are complementary. The height of the tower is
(A) \sqrt{ab} (B) $\frac{a}{b}$
(C) ab (D) a^2b^2
3. The value of $(3 + \sqrt{8}) + \frac{1}{3 - \sqrt{8}} - (6 + 4\sqrt{2})$ is
(A) 8 (B) 1
(C) $\sqrt{2}$ (D) 0
4. The area (in sq. unit) of the triangle formed in the first quadrant by the line $3x + 4y = 12$ is
(A) 8 (B) 12
(C) 6 (D) 4
5. If A and B are the H.C.F. and L.C.M. respectively of two algebraic expressions x and y, and $A + B = x + y$, then the value of $A^3 + B^3$ is
(A) $x^3 - y^3$ (B) x^3
(C) y^3 (D) $x^3 + y^3$
6. If $x > 1$ and $x^2 + \frac{1}{x^2} = 83$, then $x^3 - \frac{1}{x^3}$ is
(A) 764 (B) 750
(C) 756 (D) 760
7. If $\left(a + \frac{1}{a}\right)^2 = 3$, then $a^3 + \frac{1}{a^3} = ?$
(A) $2\sqrt{3}$ (B) 2
(C) $3\sqrt{3}$ (D) 0
8. If the internal bisectors of the $\angle ABC$ and $\angle ACB$ of $\triangle ABC$ meet at O and also $\angle BAC = 80^\circ$, then $\angle BOC$ is equal to
(A) 50° (B) 160°
(C) 40° (D) 130°
9. O is the in-centre of the $\triangle ABC$, if $\angle BOC = 116^\circ$, then $\angle BAC$ is
(A) 42° (B) 62°
(C) 58° (D) 52°
10. The area of the circumcircle of an equilateral triangle is 3π sq. cm. The perimeter of the triangle is
(A) $3\sqrt{3}$ cm (B) 9 cm
(C) 18 cm (D) 3 cm
11. In $\triangle ABC$, $\angle A = 90^\circ$ and $AD \perp BC$ where D lies on BC. If $BC = 8$ cm, $AC = 6$ cm, then $\triangle ABC : \triangle ACD = ?$
(A) 4 : 3 (B) 25 : 16
(C) 16 : 9 (D) 25 : 9
12. Inside a triangle ABC, a straight line parallel to BC intersects AB and AC at the points P and Q respectively. If $AB = 3PB$, then $PQ : BC$ is
(A) 1 : 3 (B) 3 : 4
(C) 1 : 2 (D) 2 : 3

SPACE FOR ROUGH WORK

$$\frac{116}{82} = \frac{178}{178}$$



$$\frac{180}{116} = \frac{64}{64}$$

13. There are 50 boxes and 50 persons. Person 1 keeps 1 marble in every box. Person 2 keeps 2 marbles in every 2nd box, person 3 keeps 3 marbles in every third box. This process goes on till person 50 keeps 50 marbles in the 50th box. Find the total no. of marbles kept in the 50th box.
 (A) 43 (B) 78
 (C) 6 (D) 93
14. 252 m of pant cloth and 141 m of shirt cloth are available in a cloth store. To stitch one pant and one shirt, $2\frac{1}{2}$ m and $1\frac{3}{4}$ m of cloth are needed respectively. Then the approximate number of pants and shirts that can be made out of it are
 (A) (80, 100) (B) (100, 80)
 (C) (100, 90) (D) (90, 80)
15. The greatest number that divides 411, 684, 821 and leaves 3, 4 and 5 as remainders, respectively, is
 (A) 254 (B) 146
 (C) 136 (D) 204
16. If $a = 7 - 4\sqrt{3}$, the value of $a^2 + a^{-\frac{1}{2}}$ is
 (A) $3\sqrt{3}$ (B) 4
 (C) 7 (D) $2\sqrt{3}$
17. Terms $a, 1, b$ are in Arithmetic Progression and terms $1, a, b$ are in Geometric Progression. Find 'a' and 'b' given $a \neq b$.
 (A) 2, 4 (B) -2, 1
 (C) 4, 1 (D) -2, 4
18. There are two groups A and B of a class, consisting of 42 and 28 students respectively. If the average weight of group A is 25 kg and that of group B is 40 kg, find the average weight of the whole class.
 (A) 69 (B) 31
 (C) 70 (D) 30
19. The average monthly salary of all the employees in an industry is ₹ 12,000. The average salary of male employees is ₹ 15,000 and that of female employees is ₹ 8,000. What is the ratio of male employees to female employees?
 (A) 5 : 2 (B) 3 : 4
 (C) 4 : 3 (D) 2 : 5
20. Arun marks up the computer he is selling by 20% profit and sells them at a discount of 15%. Arun's net gain percent is
 (A) 4 (B) 2
 (C) 3.5 (D) 2.5
21. A dealer buys a table listed at ₹ 1,500 and gets successive discounts of 20% and 10%. He spends ₹ 20 on transportation and sells at a profit of 20%. Find the Selling Price of the table (in rupees).
 (A) 1320 (B) 1080
 (C) 1200 (D) 1230

SPACE FOR ROUGH WORK

22. A sells an article to B at a gain of 20% and B sells it to C at a gain of 10% and C sells it to D at a gain of $12\frac{1}{2}\%$. If D pays ₹ 29.70, A purchased the article for

(A) ₹ 40 (B) ₹ 10
(C) ₹ 20 (D) ₹ 30

23. By selling 80 ball pens for ₹ 140/-, a retailer loses 30%. How many ball pens should he sell for ₹ 104/- so as to make a profit of 30%?

(A) 32 (B) 52
(C) 48 (D) 42

24. Nitin borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond eight years. If the total interest paid by him at the end of eleven years is ₹ 8,160, the money borrowed by him (in ₹) was

(A) 12,000 (B) 6,000
(C) 8,000 (D) 10,000

25. A boy started from his house by bicycle at 10 a.m. at a speed of 12 km per hour. His elder brother started after 1 hr 15 mins by scooter along the same path and caught him at 1.30 p.m. The speed of the scooter will be (in km/hr)

(A) 4.5 (B) 36
(C) $18\frac{2}{3}$ (D) 9

26. Two pipes A and B can fill a cistern in 3 hours and 5 hours respectively. Pipe C can empty in 2 hours. If all the three pipes are open, in how many hours the cistern will be full?

(A) can't be filled (B) 10 hours
(C) 15 hours (D) 30 hours

27. Two men can do a piece of work in x days. But y women can do that in 3 days. Then the ratio of the work done by 1 man and 1 woman is

(A) $3y : 2x$ (B) $2x : 3y$
(C) $x : y$ (D) $2y : 3x$

28. A clerk received an annual salary of ₹ 3,660 in the year 1975. This was 20% more than his salary in 1974. What was his salary in 1974?

(A) 3,005 (B) 3,000
(C) 3,500 (D) 3,050

29. Out of his total income, Mr. Kapur spends 20% on house rent and 70% of the rest on house-hold expenses. If he saves ₹ 1,800, what is his total income (in rupees)?

(A) 7,800 (B) 7,000
(C) 8,000 (D) 7,500

30. The sides of a triangle are in the ratio $\frac{1}{4} : \frac{1}{6} : \frac{1}{8}$ and its perimeter is 91 cm. The difference of the length of longest side and that of shortest side is

(A) 19 (B) 20
(C) 28 (D) 21

SPACE FOR ROUGH WORK

31. A box contains ₹ 56 in the form of coins of one rupee, 50 paise and 25 paise. The number of 50 paise coins is double the number of 25 paise coins and four times the number of one rupee coins. How many 50 paise coins are there in the box ?

(A) 52 (B) 64
(C) 32 (D) 16

32. The perimeter of an isosceles right angled triangle is $2p$ cm. Its area is

(A) $(3 + 2\sqrt{2})p$ sq cm
(B) $(3 - 2\sqrt{2})p^2$ sq cm
(C) $(2 - \sqrt{2})p$ sq cm
(D) $(2 + \sqrt{2})p^2$ sq cm

33. The ratio between the areas of two circles are 4 : 7. What will be the ratio of their radii ?

(A) $2 : \sqrt{7}$ (B) 4 : 7
(C) 16 : 49 (D) $4 : \sqrt{7}$

34. The perimeter of a non-square rhombus is 20 cm. One of its diagonal is 8 cm. The area of the rhombus is

(A) 28 sq cm (B) 20 sq cm
(C) 22 sq cm (D) 24 sq cm

35. If each edge of a cube is increased by 50%, the percentage increase in its surface area is

(A) 150% (B) 75%
(C) 100% (D) 125%

36. The diameter of a copper sphere is 18 cm. The sphere is melted and is drawn into a long wire of uniform circular cross-section. If the length of the wire is 108 m, the diameter of the wire is

(A) 1 cm (B) 0.9 cm
(C) 0.3 cm (D) 0.6 cm

37. A semicircular sheet of metal of diameter 28 cm is bent into an open conical cup. The capacity of the cup (taking $\pi = \frac{22}{7}$) is

(A) 624.26 cm³ (B) 622.26 cm³
(C) 622.56 cm³ (D) 623.20 cm³

38. If surface area and volume of a sphere are S and V respectively, then value of $\frac{S^3}{V^2}$ is

(A) 32 unit (B) 9 unit
(C) 18 unit (D) 27 unit

39. $\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta}$ is equal to

(A) $1 - \tan \theta - \cot \theta$
(B) $1 + \tan \theta - \cot \theta$
(C) $1 - \tan \theta + \cot \theta$
(D) $1 + \tan \theta + \cot \theta$

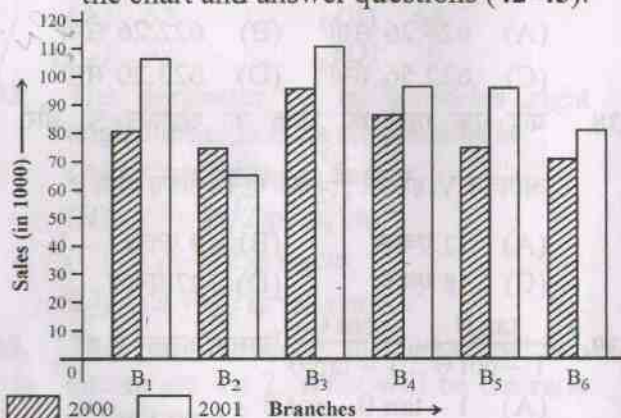
40. If $\sec \theta = x + \frac{1}{4x}$ ($0^\circ < \theta < 90^\circ$), then $\sec \theta + \tan \theta$ is equal to

(A) $\frac{x}{2}$ (B) $2x$
(C) x (D) $\frac{1}{2x}$

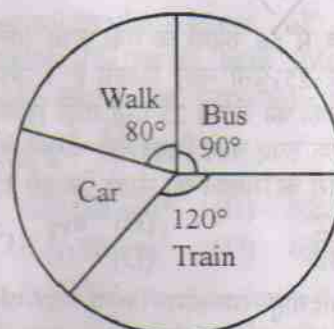
41. The circular measure of an angle of an isosceles triangle is $\frac{5\pi}{9}$. Circular measure of one of the other angles must be

(A) $\frac{5\pi}{18}$ (B) $\frac{5\pi}{9}$
(C) $\frac{2\pi}{9}$ (D) $\frac{4\pi}{9}$

Bar-chart showing the Sales of Books (in 1000) from six-branches B_1, B_2, B_3, B_4, B_5 and B_6 of a Publishing Company in 2000 and 2001 is given below. Study the chart and answer questions (42-45).



42. Total sales of branch B_6 for both the years is what percent of the total sales of branch B_3 for both the years ?
 (A) 71.11% (B) 73.17%
 (C) 68.54% (D) 77.26%
43. What is the ratio of the total sales of branch B_2 for both the years to the total sales of branch B_4 for both years ?
 (A) 2 : 3 (B) 3 : 5
 (C) 5 : 7 (D) 7 : 9
44. What percent of the average sales of branches B_1, B_2 and B_3 in 2001 is the average sales of branches B_1, B_3 and B_6 in 2000 ?
 (A) 87.5% (B) 75%
 (C) 77.5% (D) 85%
45. What is the average sale of books from all the branches for the year 2000 ?
 (A) 70 (B) 80
 (C) 70.5 (D) 80.5



The above pie-chart represents the number of students using different transport to a school in which total no. of students is 2160.

Answer Qn. Nos. 46-50 based on the above diagram.

46. The no. of students who come to school by car is
 (A) 70 (B) 290
 (C) 420 (D) 480
47. The ratio of the number of students who came to school by car to the number of students who came to school by bus is
 (A) 21 : 24 (B) 21 : 27
 (C) 36 : 27 (D) 36 : 21
48. The total no. of students coming to school either by walking or by bus is
 (A) 480 (B) 540
 (C) 1020 (D) 170
49. The no. of students who don't come to school by train is
 (A) 720 (B) 1020
 (C) 2040 (D) 1440
50. The no. of students coming to school by bus exceeds the no. of students coming to school walking, by
 (A) 10% (B) 12.5%
 (C) 11% (D) 11.5%

SPACE FOR ROUGH WORK

ENGLISH LANGUAGE AND COMPREHENSION

Directions : In Question Nos. 51 to 70, in the following two passages, some of the words have been left out. Read the passages carefully and choose the correct answer to each question out of the four alternative and fill in the blanks.

Passage - I
(Question Nos. 51 to 60)

My parents 51 to Canada in 1990 in order to escape the 52 of the Chinese Government and to build a better 53 in Canada. After listening to their stories of 54 and frustrations, I realized how 55 I was to be living in the country I now call 56. When the day came to 57 my homeland, I felt uncertain and 58. There were many 59 racing through my 60.

- | | |
|---------------------|-----------------|
| 51. (A) invited | (B) invaded |
| (C) immigrated | (D) infiltrated |
| 52. (A) tyranny | (B) democracy |
| (C) republic | (D) monarchy |
| 53. (A) livelihood | (B) living |
| (C) life | (D) income |
| 54. (A) doubts | (B) hardships |
| (C) travels | (D) distances |
| 55. (A) forgotten | (B) forewarned |
| (C) forgiven | (D) fortunate |
| 56. (A) property | (B) home |
| (C) house | (D) residence |
| 57. (A) revisit | (B) revise |
| (C) return | (D) reverse |
| 58. (A) calm | (B) stable |
| (C) nervous | (D) furious |
| 59. (A) connections | (B) concerns |
| (C) converts | (D) conditions |
| 60. (A) feelings | (B) ideas |
| (C) mind | (D) thoughts |

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Passage - II

(Question Nos. 61 to 70)

Fear and anxiety are 61 forms of will. If you 62 to do Yoga, you must 63 fear. Fear is always a feeling to be 64 because what you fear is just the thing that is 65 to come to you. Fear 66 the object of fear. Unhappiness 67 the strength. This truth is the 68 for your transformation. The world will not change 69, but it will go forward as rapidly as it 70 can.

- | | |
|--------------------|-----------------|
| 61. (A) unique | (B) perverse |
| (C) different | (D) accepted |
| 62. (A) dare | (B) wish |
| (C) want | (D) need |
| 63. (A) shrug off | (B) throw away |
| (C) be aware of | (D) get rid of |
| 64. (A) rejected | (B) argued |
| (C) denied | (D) refused |
| 65. (A) probably | (B) likely |
| (C) easily | (D) possibly |
| 66. (A) avoids | (B) invites |
| (C) attracts | (D) activates |
| 67. (A) eliminates | (B) inactivates |
| (C) suppresses | (D) weakens |
| 68. (A) key | (B) remedy |
| (C) reason | (D) answer |
| 69. (A) shortly | (B) at once |
| (C) at a stretch | (D) readily |
| 70. (A) eventually | (B) largely |
| (C) possibly | (D) probably |

Directions : In Question Nos. 71 to 85, you have 3 brief passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [●] in the Answer Sheet.

Passage – I
(Question Nos. 71 to 75)

Two bike-borne youths snatched a gold chain worth ₹ 60,000 from a 35-year-old homemaker in Salt Lake on Thursday morning, two days after a Bangalore-based woman was robbed in the township in similar fashion.

Around 7.30 am at BG block, Keshtopur resident Sujata Dey was walking home after dropping her son in school when the youths, wearing full-mask helmets that covered their faces, snatched the chain from behind and sped away.

"I was walking back towards the Keshtopur foot-bridge, talking with a friend, when I felt a tug at my neck. Within moments, my chain was in the hands of the pillion rider. We ran for a distance chasing them but they soon took a sharp turn and we lost them," Dey said.

She said she couldn't take down the bike's registration number. "I can only recall that it was orange," she said.

Dey dialled 100, the police helpline, from her cellphone. She was directed to lodge a complaint with Bidhannagar East police station.

On Tuesday morning, two bike-borne youths had snatched a chain from Papiya Roy Chowdhury near her home in AE block.

The back-to-back snatchings have prompted township residents to demand stricter policing. "Salt Lake is becoming unsafe. Criminals are robbing residents at will. The police should take strict measures," said Sreemoyee Sen, a resident of AB block.

71. "Home maker" is a synonym of
(A) Construction worker
(B) Servant
(C) Housekeeper
(D) Housewife

72. The Homemaker stayed in
(A) United States of America
(B) Bangalore
(C) Salt Lake
(D) Keshtopur

73. The thieves were chased by
(A) Papiya Roy Chowdhury
(B) Sujata Dey and her friend
(C) Sujata Dey alone
(D) The Police

74. Why could Sujata Dey not identify the thieves ?
(A) Because they wore full mask helmets.
(B) Because they sped away fast.
(C) Because they were on a bike.
(D) Because they took a sharp turn.

75. Who told Sujata Dey to lodge a police complaint ?
(A) Local residents
(B) The police
(C) Her friend
(D) Papiya Roy Chowdhury

Passage – II
(Question Nos. 76 to 80)

A flock of birds flew into an IndiGo Airbus about to take off at Patna this morning and damaged the plane's engine before the captain slammed the emergency brakes.

The close shave has again forced the glare on the airport already under the scanner for obstacles in its landing approach path.

The Airbus A320, carrying 89 passengers and six crew members, had started taxiing when the birds, possibly attracted by the waste pile-up near the airport, crashed into the plane on the left around 8.05 am.

The pilot hit the brakes, bringing the plane to a screeching halt seconds before take-off. Sources said the plane would have been running at a speed of about 40 nautical miles (74 kmph) at the time.

Flight 6E 385 was scheduled to take off at 8.10 am for Delhi and onward to Hyderabad, Bangalore and Visakhapatnam.

"The left-hand side engine of the aircraft got damaged after it was hit by the birds. There were no casualties fortunately and all passengers were taken out of the aircraft immediately after the pilot took it to the parking bay. The aircraft has been grounded and it will operate only after the safety engineers of IndiGo give a fit-to-fly certificate," an IndiGo source at Patna airport said.

All passengers were accommodated on other IndiGo flights, the source added.

76. 'Close shave' means
(A) Emergency
(B) Danger
(C) A narrow escape
(D) To shave carefully
77. Why did the birds fly into the plane?
(A) As the birds were attracted to the plane.
(B) As it was taking off slowly.
(C) As the captain slammed the brakes.
(D) As the birds were attracted to the waste pile-up near the airport.
78. The passengers were allowed to get off the plane
(A) after the plane was taken to the parking bay
(B) immediately
(C) after many hours
(D) the next day
79. The Airbus is a
(A) A large bus
(B) Small plane
(C) Large plane
(D) A small bus

80. What happened to the plane after the passengers were taken off?

- (A) It was given a fitness certificate.
(B) It was grounded.
(C) It was discarded.
(D) It was inspected and allowed to fly.

Passage – III
(Question Nos. 81 to 85)

Women's education in India is one of the foremost concerns of the Government of India as well as of the society at large. It is due to the fact that at the present time, the educated women play a very significant role in overall development and progress of the country. Women hold a prominent position in the Indian society and all over the world. However, since the prehistoric times women were denied opportunities and had to suffer for the hegemonic masculine ideology. This unjustifiable and unwarrantable oppression had resulted into a movement that fought to achieve the equal status of women all over the world. Women's education in India is the consequence of such progress and this led to the tremendous improvement of women's condition throughout the world. Nevertheless eradication of female illiteracy is considered as a major concern today.

In the present era, the Indian society has established a number of institutions for the educational development of women and girls. These educational institutions aim for immense help and are concerned with the development of women. In the modern society, women in India have come a long way. Indian women are at par with men in all kinds of tasks like reaching the moon, conquering Mount Everest, and participating in all fields. All this is possible just because of education and the profound impact it has had on women.

81. Education for women is necessary
 (A) to enable more women to conquer Mt. Everest.
 (B) to usher in a modern and progressive society.
 (C) to protest against masculine supremacy.
 (D) to establish more educational institutions.

82. In present times, education for women is not at par with that of their male counterparts because

- (A) Indian women did not join the worldwide movement to gain equal status for themselves.
 (B) female illiteracy is a major social problem.
 (C) Indian women are traditionally more preoccupied with their household duties.
 (D) ours is a male dominated society.

83. _____ has been a major boost for female literacy in India today.

- (A) The global movement to gain equal status for women
 (B) The modern governmental system
 (C) Increase in the number of broad-minded men
 (D) Increase in the number of women in prominent positions

84. Progress and improvement in education for women has enabled them to

- (A) overthrow male hegemony
 (B) bag coveted positions for themselves
 (C) create an impact on all aspects of life
 (D) all of the above

85. Find the option opposite in meaning to unjustifiable.

- (A) compulsory (B) progressive
 (C) reasonable (D) methodical

Directions : In Question Nos. 86 to 95, 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.

86. Unless aid arrives /
 (A)
within the next few weeks /
 (B)
thousands are starving. / No error.
 (C) (D)

87. I have been /
 (A)
working in this organization /
 (B)
since three years. / No error.
 (C) (D)

88. Neither of the two / candidates have /
 (A) (B)
paid his subscription. / No error.
 (C) (D)

89. A well balanced diet /
 (A)
is essential for / good health. /
 (B) (C)
No error.
 (D)

90. My uncle forced / my friend and I /
 (A) (B)
to stay back. / No error.
 (C) (D)

91. We had scarcely / reached the place, /
 (A) (B)
than it started to rain heavily. /
 (C)

No error.
 (D)

92. I am really disappointed /
(A)
in not having saw my friends /
(B)
while I was in New Delhi on
(C)
vacation this summer. / No error.
(D)
93. The company have /
(A)
thousands of customers /
(B)
happy with its service. / No error.
(C) (D)
94. They are residing / in this city /
(A) (B)
for the last two decades. / No error.
(C) (D)
95. Our new television set come /
(A)
with a 90 days warranty /
(B)
on all electrical components. /
(C)
No error.
(D)

Directions : In Question Nos. 96 to 100, 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.

96. We _____ respect our parents and teachers.
(A) may have to
(B) will
(C) shall
(D) ought to

97. Let us sit down _____ the shade of a tree for sometime.
(A) inside (B) below
(C) in (D) beneath
98. You are fortunate _____ having an intelligent and obedient son.
(A) to (B) for
(C) of (D) in
99. Mother had prepared 20 biscuits, Raj ate all of them. Therefore, mother called him a _____.
(A) digester (B) goader
(C) needy (D) glutton
100. We are highly disappointed _____ the exam results.
(A) about (B) from
(C) in (D) with

Directions : In Question Nos. 101 to 105, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

101. Absolve
(A) Consume (B) Punish
(C) Acquit (D) Withheld
102. Ascription
(A) Description (B) Account
(C) Attribution (D) Cure
103. Toil
(A) Test (B) Spoil
(C) Work hard (D) Tell
104. Mimic
(A) Tease (B) Refresh
(C) Greet (D) Copy
105. Kiosk
(A) Store (B) Shop
(C) Booth (D) Mall

Directions : In Question Nos. 106 to 110, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

106. obstruct

- (A) clear (B) block
(C) instruct (D) prevent

107. encouraged

- (A) neglected
(B) feared
(C) discouraged
(D) disowned

108. knack

- (A) disgusting (B) skill
(C) enmity (D) inability

109. altruistic

- (A) selfish (B) cruel
(C) unkind (D) evil

110. inhale

- (A) insert (B) extricate
(C) hate (D) exhale

Directions : In Question Nos. 111 to 115, 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.

111. He promised to look into the matter.

- (A) to investigate
(B) to question
(C) to peer closely at
(D) to take care of

112. It is bad to try to fish in troubled waters.

- (A) make a profit out of a disturbance.
(B) go for fishing and cause trouble.
(C) fish in hot weather.
(D) catch fish in disturbed waters.

113. Thousands put on a daily fight to keep the wolf from the door.

- (A) ward off mosquitoes
(B) keep oneself healthy
(C) avoid starvation
(D) guard from pickpockets

114. How did you break the ice in the party ?

- (A) Shatter peace
(B) Cause harm
(C) Break free
(D) Initiate something

115. The policy has been declared to be null and void.

- (A) Valid
(B) Impossible
(C) Invalid
(D) Empty

Directions : In Question Nos. 116 to 120, the 1st and the last sentences of the passage are numbered 1 and 6. The rest of the passage is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

116. 1. With a little cajoling
P. was moved inside a small cement enclosure
Q. beneath the rail tracks
R. the friendly leopard
S. at the corner of his cage
6. of the toy train.
(A) RSPQ
(B) SRPQ
(C) RPSQ
(D) SQPR

117. 1. In the shops of Great Britain,
Nirad Choudhary
P. of our elephant-headed God of
success, Ganesha
Q. who was likely to be a
counterpart
R. missed the image of any God
S. presiding over all our
enterprises
6. particularly financial ones.
(A) QPSR (B) RQPS
(C) SPQR (D) PSQR
118. 1. They were enjoying themselves
P. from the horrors of poison
arrows
Q. and the lurking phantoms
R. completely distracted
S. enormously
6. in the jungle around them.
(A) RSPQ (B) SRPQ
(C) RQSP (D) QRPS
119. 1. Modern industrialized
communities
P. and the rich glow of health
which comes
Q. have lost touch with soil
R. which nature gives
S. and do not experience that joy
6. from contact with mother earth.
(A) RSPQ (B) QSRP
(C) QRSP (D) QPSR
120. 1. By tradition, the medical
profession
P. has sealed lips and
Q. to explain its problems
R. has been even more reluctant
S. to the general public
6. than to the patient.
(A) PRQS (B) RSPQ
(C) PQRS (D) SRPQ

Directions : In Question Nos. 121 to 130, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark your answer in the Answer Sheet.

121. He completed the story on time.
(A) The story was completed by him on time.
(B) The story was being completed by him on time.
(C) The story completed by him on time.
(D) The story had completed by him on time.
122. Sheela painted the house green.
(A) The house was painted green by Sheela.
(B) The house will be painted green by Sheela.
(C) The house is painted green by Sheela.
(D) The house has been painted green by Sheela.
123. An American scientist has won the Nobel Prize for Physics.
(A) The Nobel Physics Prize has been won by an American scientist.
(B) The Nobel Prize has been won by an American scientist.
(C) The Nobel Prize for Physics is won by an American scientist.
(D) The Nobel Prize for Physics has been won by an American scientist.

124. By now the winners will have been felicitated.

- (A) They will felicitate the winners now.
- (B) They have felicitated the winners by now.
- (C) They will have been felicitated the winners by now.
- (D) They will have felicitated the winners by now.

125. I was sanctioned the loan by the office.

- (A) The office had sanctioned the loan to me.
- (B) The office sanctioned loan to me.
- (C) The office sanctioned me the loan.
- (D) The office was sanctioned me the loan.

126. Open the window.

- (A) Open window.
- (B) Someone opens the window.
- (C) Window is opened.
- (D) Let the window be opened.

127. Deforestation has reduced rainfall in the tropical lands.

- (A) Rainfall has been reduced and caused deforestation.
- (B) Reduced rainfall deforested the tropical lands.
- (C) Rainfall has been reduced due to deforestation in tropical lands.
- (D) Tropical lands have been reduced by rainfall.

128. The doctor bandaged the arm of the injured man.

- (A) The arm of the injured man was bandaged by the doctor.
- (B) The injured man bandaged his arm.
- (C) The injured man made the doctor injure his arm.
- (D) The doctor injured and bandaged the arm of a man.

129. The ringing of the alarm clock startled me from the deep depths of slumber.

- (A) The alarm clock rang, startled and awakened me from sleep.
- (B) I was startled from the deep depths of slumber by the ringing of the alarm clock.
- (C) The alarm clock rang and startled me from the depths of slumber.
- (D) The ringing of the alarm clock made me awake.

130. One of the girls in the class will sing the national anthem at the end of the function.

- (A) The function will end, a girl will sing national anthem at the end of the function.
- (B) The national anthem will be sung by one of the girls in the class at the end of the function.
- (C) There is a girl in the class who sings national anthem.
- (D) A girl to sing national anthem is there in the class.

Directions : In Question Nos. 131 to 140, a sentence / a part of the sentence is underlined. Below are given alternatives to the underlined sentence / part at (A), (B) and (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.

131. She prefers tea than coffee.

- (A) tea to
- (B) tea over
- (C) tea more than
- (D) No improvement

132. Mutual shakes of hands was exchanged.

- (A) Both shakes of hands was carried.
- (B) The hand shakes were exchanged.
- (C) They shook hands with each other.
- (D) No improvement.

133. The incident made a deep impression on me.

- (A) rounded
- (B) profound
- (C) slight
- (D) No improvement

134. He, I, She and They cooked the food.

- (A) I, He, She and They cooked the food.
- (B) They, I, He and She cooked the food.
- (C) He, She, They and I cooked the food.
- (D) No improvement.

135. The newspaper report of the killing verified with the police findings.

- (A) authenticated
- (B) corroborated
- (C) confirmed
- (D) No improvement

136. The saint said that men are mortal.

- (A) said that men is mortal.
- (B) advised men are mortal.
- (C) said that men were mortal.
- (D) No improvement.

137. There is no alternate offered to us.

- (A) way
- (B) solution
- (C) choice
- (D) No improvement

138. The voluntary organization appealed to the people to come forward to help the victims and said that each may contribute what they can.

- (A) each may contribute what he can
- (B) each may contribute what they can
- (C) each may contribute what each one can
- (D) No improvement

139. There is no escape in the container for the water to flow.

- (A) outlet
- (B) inlet
- (C) drainage
- (D) No improvement

140. The problem was so complicated to be solved in a day.

- (A) too
- (B) very
- (C) much
- (D) No improvement

Directions : In Question Nos. 141 to 150, a sentence has been given in Direct/Indirect form. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct form and mark your answer in the Answer Sheet.

141. The visitor said to them "Please give me a glass of water."

- (A) The visitor said please give him a glass of water.
- (B) The visitor said to them to give him a glass of water.
- (C) The visitor ordered them to give a glass of water.
- (D) The visitor requested them to give him a glass of water.

142. The policeman told the students, "Do not park your vehicles here."

- (A) The policeman asked them not park your vehicles here.
- (B) The policeman asked them not to park their vehicles here.
- (C) The policeman asked them not to park their vehicles there.
- (D) The policeman asked them not to park his vehicle here.

143. The man said, "All the boys are playing in the street."

- (A) The man told us that all the boys had been playing in the street.
- (B) The man told us that all the boys were playing in the street.
- (C) The man told us that all the boys play in the street.
- (D) The man told us that all the boys in the street are playing.

144. She said, "I am sorry I did not write."

- (A) She apologized for I did not write.
- (B) She apologized she is sorry, she did not write.
- (C) She apologized she is sorry, she has not written.
- (D) She apologized and added that she was sorry, she had not written.

145. "Alright, yes, I was wrong and you were right," he said.

- (A) He admitted that he has been wrong and I have been right.
- (B) He admitted that I was wrong and you were right.
- (C) He admitted that I was wrong and he was right.
- (D) He admitted that he had been wrong and I had been right.

146. Nirmal said to us, "My father gave me a purse yesterday."

- (A) Nirmal told us that my father given me a purse the previous day.
- (B) Nirmal told us that his father had given him a purse the previous day.
- (C) Nirmal told us that his father has given him a purse yesterday.
- (D) Nirmal told us that his father had given him a purse yesterday.

147. I asked my brother if he had returned the money to his friend.

- (A) "Had you returned the money to my friend."
- (B) I said to my brother, "Have you return the money to his friend?"
- (C) "Have you returned the money to your friend?"
- (D) "Do you return the money to his friend."

148. Bala's mother : 'Will you lock the door Bala ?'

- (A) Bala's mother told Bala that he need not lock the door.
- (B) Bala's mother asked Bala if he would lock the door.
- (C) Bala's mother asked Bala if he had locked the door.
- (D) Bala's mother said lock the door.

149. "Are you ready Raju ?" Mother asked.

- (A) Mother asked Raju if he would be ready.
- (B) Mother told Raju if he was ready.
- (C) Mother asked Raju if he was ready.
- (D) Mother wanted to know from Raju if he was ready.

150. Ann told my brother, "I will meet you in your class."

- (A) Ann told my brother that he will meet her in her class.
- (B) Ann told my brother that I would meet you in your class.
- (C) Ann told my brother that she would meet him in his class.
- (D) Ann told my brother that she would meet him in her class.