GA

(Prelim

: INSTRUCTIONS TO CANDIDATES :

THIS BOOKLET CONTAINS **100** QUESTIONS OF **1** MARK EACH IN **16** PAGES. PLEASE CHECK THE QUESTION-SET BEFORE USE. IF ANY DEFECTS ARE NOTICED, PLEASE BRING IT TO THE NOTICE OF THE INVIGILATOR.

1. Read the instructions carefully before using the OMR answer sheet provided.

2. Fill in Part – A of the OMR answer sheet first, mentioning the Roll No. and other data as applicable in the place(s) indicated therein and darken the appropriate circles in blue **or** black ball point pen only.

3. While darkening the circle in Part – B of the OMR answer sheet, use blue **or** black ball point pen only.

4. Do not write any name/surname **or** put any symbol, sign, slogan, prayer **or** any mark of identification in Part – B of the OMR answer sheet. **Any such act is liable to render the answer sheet unfit for evaluation**.

5. Do not use any other form except the OMR answer sheet provided along with the question-set.

6. Do not tamper with the bar code **or** any other portion of the OMR answer sheet.

7. Candidates may use the blank sheet attached to these instructions for doing the rough work, if needed.

8. Do not attach any additional sheet **or** paper to the OMR answer sheet.

9. Return the OMR answer sheet **only** to the Invigilator before leaving the examination hall.

10. Candidates may take with them the respective question-sets after the examination is over.

11. Mobile Phone **or** any Communication Devices is not allowed inside the Examination Hall. The candidates are strictly advised **not to carry** any Mobile Phone **or** Communication Devices with them into the Examination Hall. Any candidate who is in **possession of Mobile Phone/Communication Devices** inside the hall is liable to be debarred from the valuation of his/her answer paper.

12. Violation of these instructions shall **entail disqualification of the candidate**.

13. There shall be a negative marking @ 0.25 per wrong answer.

KI – 1A/13   (Turn over)

CA(Prelim) – 2014 – Set – 1

GA

Time : 1 Hour

Full Marks : 100

*Each question carries **1** mark.*

*Answer **all** questions, choosing the correct **one** from the alternatives suggested and darken the appropriate circle using BLUE or BLACK BALL POINT PEN.*

1. If a, b, c, d, e are five consecutive odd numbers, then their average is :

    (1) 5a + 4

    (2) abcde / 5

    (3) a + 4

    (4) a + 20

    (5) 5(a + b + c + d + e)

2. If the sum of two numbers is 55 and the H. C. F. and L. C. M. of these numbers are 5 and 120 respectively. Find the sum of their reciprocals :

    (1) 120 / 11

    (2) 601 / 55

    (3) 55 / 601

    (4) 11 / 120

    (5) 25 / 55

3. Twenty times a positive integer is less than its square by 96. What is the integer ?

    (1) 24

    (2) 20

    (3) 28

    (4) 30

    (5) 36

4. The length and breadth of a square are increased by 20% and 30% respectively. The area of the resulting rectangle exceeds the area of the square by :

    (1) 52%

    (2) 54%

    (3) 56%

    (4) 58%

    (5) 60%

5. A flexible wire of 132 m length, when formed into a triangle, the three sides are in the ratio of 4 : 3 : 5. If the wire is formed into a circle, then find the difference of area of the two :

    (1) 666 sq. m.

    (2) 660 sq. m.

    (3) 680 sq. m.

    (4) 656 sq. m.

    (5) 670 sq. m.

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(3)

6. A and B can do a work in 12 days and 16 days respectively. Both worked together for 3 days and then A left the work and C joined. Both B and C completed the rest of the work in 3 days. In how many days C can complete the whole work ?

(1) 5 days

(2) 6 days

(3) 7 days

(4) 8 days

(5) 9 days

7. A train covers a distance in 50 minutes, if it runs at a speed of 48 km/hr on an average. The speed at which the train must run to reduce the time of journey to 40 minutes will be :

(1) 50 km/hr

(2) 55 km/hr

(3) 60 km/hr

(4) 70 km/hr

(5) 75 km/hr

8. One pipe can fill a tank three times as fast as another pipe. If together the two pipes are opened, the tank gets filled up in 36 minutes. Find the time to be taken by the slower pipe alone to fill up the tank :

(1) 2 hr 24 minutes

(2) 2 hr 12 minutes

(3) 2 hr 6 minutes

(4) 1 hr 48 minutes

(5) 1 hr 24 minutes

9. What is the difference between Simple and Compound Interest on a sum of Rs. 2,000 for 3 years at 20% per annum ?

(1) Rs. 226

(2) Rs. 236

(3) Rs. 246

(4) Rs. 256

(5) Rs. 266

10. An increase of Rs. 3 in the selling price of an article turns a loss of 7.5% into gain of 7.5%. What is the cost price of the article ?

(1) Rs. 10

(2) Rs. 15

(3) Rs. 20

(4) Rs. 25

(5) Rs. 30

11. If $m = \tan A + \sin A$ and $n = \tan A - \sin A$, find out the value of $4\sqrt{mn}$ from the following :

(1) $(m - n)^2$

(2) $(m + n)^2$

(3) $2mn$

(4) $m^2 - n^2$

(5) $m^2 + n^2$

12. If $\sin A + \cos A = m$ and $\sec A + \csc A = n$, then find out the value of $n(m^2 - 1)$:

(1) $2mn$

(2) $2m$

(3) mn

(4) $2m^2$

(5) $2n^2$

KI – 1A/13   (4)   Contd.

13. Find the values of 'x' in the equation i.e. $x^2 = 18x - 77$:

    (1) 12 & 6

    (2) 13 & 5

    (3) 14 & 4

    (4) 11 & 7

    (5) 10 & 8

14. The sum of first n natural numbers is 276. Find n :

    (1) 23

    (2) 24

    (3) 25

    (4) 26

    (5) 27

15. The radius of a sphere is 9 cm. It is melted and drawn into a wire of diameter 2 mm. Find the length of the wire in metres :

    (1) 962 m.

    (2) 972 m.

    (3) 982 m.

    (4) 952 m.

    (5) 942 m.

16. A cylindrical tube open at both the ends is made of metal. The internal diameter of the tube is 11.2 cm and its length is 21 cm. The metal everywhere is of 0.4 cm thick. Calculate the volume of the metal in the tube, correct to one place of decimal :

    (1) 302.2 cm^3

    (2) 303.2 cm^3

    (3) 304.4 cm^3

    (4) 306.2 cm^3

    (5) 307.2 cm^3

17. A card is drawn from a pack of 100 cards numbered 1 to 100. Find the probability of drawing a number which is a square :

    (1) 1/30

    (2) 1/20

    (3) 1/10

    (4) 1/12

    (5) 1/16

18. Find the mean of :

Class Interval	Frequency
10 – 20	3
20 – 30	5
30 – 40	6
40 – 50	4
50 – 60	2

    (1) 29.5

    (2) 30.5

    (3) 31.5

    (4) 32.5

    (5) 33.5

19. The total number of observations in the following distribution table is 120 and their mean is 50. Find the values of missing frequencies f_1 and f_2 :

Class	Frequency
0 – 20	17
20 – 40	f_1
40 – 60	32
60 – 80	f_2
80 – 100	19

    (1) 30 & 26

    (2) 28 & 24

    (3) 27 & 23

    (4) 26 & 22

    (5) 25 & 20

20. A box contains some black balls and 30 white balls. If the probability of drawing a black ball is two-fifths of a white ball; find the number of black balls in the box :

   (1)   12
   (2)   14
   (3)   16
   (4)   18
   (5)   20

21. What is Kaya Kalp ?

   (1)   Innovation Council of Indian Railways to turn around the ailing Railways
   (2)   Innovation Council to turn around the Civil Aviation
   (3)   Innovation Council to turn around the Waterways
   (4)   Innovation Council to turn around the National Highways
   (5)   Innovation Council to turn around the Higher Education

22. India's Daughter is :

   (1)   A documentary on the adverse Sex-Ratio in Haryana
   (2)   A Biography of Indira Gandhi
   (3)   A documentary made by Leslee Udwin of BBC
   (4)   A biography of Kalpana Chawla
   (5)   An Autobiography by Sunita Williams

23. What is the maximum number of Deputy Governors, RBI can have ?

   (1)   1
   (2)   2

   (3)   3
   (4)   4
   (5)   5

24. The number of parties to a cheque is :

   (1)   5
   (2)   4
   (3)   3
   (4)   2
   (5)   1

25. As per RBI guidelines, SB accounts cannot be opened in the name of :

   (1)   Companies Licensed under Section 25 of Companies Act, 1956
   (2)   Societies registered under Societies Registration Act 1860
   (3)   Primary Co-operative Credit Society being financed by Bank
   (4)   Any Trust whose entire income is exempted from payment of Income Tax
   (5)   Municipal Corporations

26. Infrastructure Development Finance Corporation of India Ltd. (IDFC) was set up in 1997 as per the recommendation of :

   (1)   Dr. Rakesh Mohan Committee
   (2)   Ranganathan Committee
   (3)   Suresh Tendulkar Committee
   (4)   Suresh Pravu Committee
   (5)   Talukdar Committee

27. Who made the famous statement, "We are ideology free" ?

   (1)   Zhou Enlai

   (2)   Lee Kuan Yew

   (3)   Mao Tse-Tung

   (4)   Fidel Castro

   (5)   Marshal Tito

28. Who is the recipient of 46th "Dada Saheb Phalke" award ?

   (1)   K. Balchander

   (2)   Gulzar

   (3)   Pran

   (4)   Shashi Kapoor

   (5)   Soumitra Chatterjee

29. What is the Current Repo Rate ?

   (1)   8.00%

   (2)   7.75%

   (3)   7.50%

   (4)   7.25%

   (5)   7.00%

30. The Government of India has imposed anti-dumping duty for five years on the import of which of the following product ?

   (1)   Steel

   (2)   Gold Ornaments

   (3)   Wheat Products

   (4)   Graphite Electrodes

   (5)   Cotton Fabrics

31. Pradhan Mantri Jan Dhan Yojana launched on 28th August, 2014 aims to open how many accounts by 15th August, 2015 ?

   (1)   16 crore

   (2)   15 crore

   (3)   14 crore

   (4)   12 crore

   (5)   10 crore

32. Which is the first State in India to launch "Health Adalat" ?

   (1)   Karnataka

   (2)   Kerala

   (3)   Maharashtra

   (4)   Punjab

   (5)   Rajasthan

33. Which famous Magazine has named 'Mangalayan' among the best inventions of 2014 ?

   (1)   Reader's Digest

   (2)   Time

   (3)   National Geographic

   (4)   Scientific American

   (5)   Ella

34. In which country the 6th BRICS Summit was held ?

   (1)   Russia

   (2)   India

   (3)   Brazil

   (4)   China

   (5)   South Africa

35. Which Section of the IT Act has been struck down by the Supreme Court of India as it violates the freedom of speech and expression guaranteed by the Constitution of India ?

    (1) Section 64

    (2) Section 65

    (3) Section 66

    (4) Section 66A

    (5) Section 67

36. Who has scored the winning runs in the recently held the hair-raising Semi-final Cricket Match between New Zealand and South Africa ?

    (1) R. Taylor

    (2) G. Elliott.

    (3) C. Anderson

    (4) L. Ronchi

    (5) D. Vettori

37. Which Odia Film has bagged the National Award for 2014 ?

    (1) A Aa Harsei

    (2) Salla Budha

    (3) Kandha Budha

    (4) Puja Pain Phulatie

    (5) Aadim Vichar

38. Who has been selected for Rajat Kamal Award for the Best Actress for 2014 ?

    (1) Alia Bhatt

    (2) Kangana Ranaut

    (3) Rani Mukherjee

    (4) Priyanka Chopra

    (5) Sonam Kapoor

39. Who is the Deputy Chief Minister of Jammu & Kashmir at present ?

    (1) Nirmal Kumar Singh

    (2) Kuldeep Raj

    (3) Dr. Gagan Bhagat

    (4) Shakti Raj

    (5) Dina Nath

40. Name the team that has topped the medal tally in the 35th National Games held at Thiruvananthpuram in February, 2015 ?

    (1) Haryana

    (2) Kerala

    (3) Punjab

    (4) Services

    (5) Maharashtra

41. What is 'PRAGATI' ?

    (1) A programme launched by the PMO to review the progress of Government Schemes by talking to the State's top bureaucrats on 4th Wednesday of every month.

    (2) A programme launched by Odisha Government for the development of KBK areas.

    (3) A programme launched by Jitan Ram Manjhi in Bihar for the upliftment of Mahadalits .

    (4) A State sponsored scheme of Rajasthan Government.

    (5) A programme launched by Udhav Thackray to unite Marathi manush.

48. Which one of the following does not find in the Constitution of India ?
   (1) Attorney General of India
   (2) Advocate General of a State
   (3) Solicitor General of India
   (4) State Election Commissioner
   (5) Election Commission of India

49. The President of India can issue a proclamation of National Emergency only on the written recommendation of :
   (1) The Prime Minister
   (2) Parliament
   (3) Resolution of Lok Sabha
   (4) The Council of Ministers
   (5) The Cabinet consisting of only Cabinet Ministers of the Union

50. In which of the following lists of the Indian Constitution is the subject of 'Population Control and Family Planning' included ?
   (1) Union List
   (2) Concurrent List
   (3) State List
   (4) Residuary List
   (5) None of the above

51. Under which Article of the Constitution of India can the President of India be impeached ?
   (1) 75
   (2) 65
   (3) 76
   (4) 66
   (5) 61

52. The authority to alter the boundaries of States in India rests with :
   (1) Union Government
   (2) President
   (3) Union Cabinet
   (4) Parliament
   (5) Council of Union Ministers

53. The authority empowered to make laws in respect of the matters not included in any of the three lists is :
   (1) Parliament
   (2) Lok Sabha only
   (3) State Legislatures
   (4) President
   (5) Supreme Court

54. Writs can be issued for the enforcement of Fundamental Rights by :
   (1) District Courts
   (2) President
   (3) The Supreme Court only
   (4) Both the Supreme Court and the High Courts
   (5) High Courts only

55. Which of the following categories of Fundamental Rights incorporate 'Abolition of Untouchability' ?
   (1) The Right to Religion
   (2) Thr Right to Equality
   (3) The Right against Exploitation
   (4) The Right to Freedom
   (5) The Right to Constitutional Remedies

56. The joint sitting of Indian Parliament for transacting legislative business is presided over by :
    (1) The President of India
    (2) The Senior most Member of Parliament
    (3) The Chairman of the Rajya Sabha
    (4) The Speaker of the Lok Sabha
    (5) Opposition Leader in Lok Sabha

57. Which State of India has a uniform Civil Code for its people ?
    (1) Jammu & Kashmir
    (2) Goa
    (3) Kerala
    (4) Assam
    (5) West Bengal

58. Who chairs the Rules Committee of the Rajya Sabha ?
    (1) The Leader of Opposition in the Rajya Sabha
    (2) The Vice-President of India
    (3) The Minister of Parliamentary Affairs
    (4) The Deputy Chairman of the Rajya Sabha
    (5) The Senior most member in Rajya Sabha

59. An ant can see the object all around it due to the presence of :
    (1) Simple eyes
    (2) Eyes over the head
    (3) Well developed eyes
    (4) Compound eyes
    (5) Eyes larger than head

60. The gland, which in relation to body size is largest at birth and then gradually shrinks after puberty is :
    (1) Thyroid
    (2) Pituitary
    (3) Thymus
    (4) Adrenal
    (5) Hypothalamus

61. How many teeth are known as milk teeth in human beings ?
    (1) 4
    (2) 8
    (3) 12
    (4) 20
    (5) 24

62. In an ordinary dry cell, the electrolyte used is :
    (1) Sulphuric Acid
    (2) Manganese Dioxide
    (3) Ammonium Chloride
    (4) Zinc
    (5) Hydrochloric Acid

63. When a coil is rotated in magnetic field, induced current is generated in the coil. This principle is used in making :
    (1) Electromagnet
    (2) Electric motor
    (3) Electric generator
    (4) Electric transformer
    (5) Electric wattmeter

64. The tape of a tape-recorder is coated with :
    (1) Zinc oxide
    (2) Copper sulphate
    (3) Mica
    (4) Ferromagnetic powder
    (5) Magnesium chloride

65. The hydraulic brake used in automobiles is a direct application of which of the following ?

(1) Newton's law

(2) Archimedes' principle

(3) Torricelli's law

(4) Bernoulli's theorem

(5) Pascal's law

66. What is the unit for measuring the pitch or frequency of sound ?

(1) Ampere

(2) Hum

(3) Decibel

(4) Hertz

(5) Watt

67. Bar is the unit of measuring :

(1) Speed

(2) Atmospheric pressure

(3) Heat

(4) Temperature

(5) Current

68. The type of glass used in making lenses and prism is :

(1) Soft glass

(2) Pyrex glass

(3) Jena glass

(4) Flint glass

(5) Unbreakable glass

69. What are soaps ?

(1) Sodium or potassium salts of heavier fatty acids

(2) Salt of silicates

(3) Oil with metallic hydroxides

(4) Esters of heavy fatty acids

(5) Mixture of glycerol and alcohols

70. Heavy water is :

(1) Tritium oxide

(2) Deuterium oxide

(3) Rain water

(4) Water at $-4°$ C

(5) Hydrogen peroxide

71. Which of the following countries is smaller than India ?

(1) Russia

(2) China

(3) Brazil

(4) Argentina

(5) Canada

72. Which is the largest Metal Trading Centre in the world ?

(1) Johannesburg

(2) London

(3) New York

(4) Singapur

(5) Vienna

73. The Headquarters of United Nations Educational Scientific and Cultural Organisation (UNESCO) are located in :

(1) Rome

(2) Washington

(3) Paris

(4) Montreal

(5) Stockholm

74. Which of the following is the hub of the global trade in cut flowers ?

(1) Netherlands

(2) Germany

(3) Japan

(4) Colombia

(5) France

75. The new name of Abyssinia is :
    (1) Zambia
    (2) Zaire
    (3) Ethiopia
    (4) Namibia
    (5) Somalia

76. Tropical grassland of Brazil is called :
    (1) Savanna
    (2) Steppes
    (3) Pampas
    (4) Campos
    (5) Prairies

77. In which country Karbala, the holy city of Shia Muslim is located ?
    (1) Iran
    (2) Iraq
    (3) Jordan
    (4) Syria
    (5) Turkey

78. Where Baglihar Hydroelectric Project is located ?
    (1) Firozepur District of Punjab
    (2) Doda District of Jammu & Kashmir
    (3) Faridkot District of Punjab
    (4) Baramula District of Jammu & Kashmir
    (5) Kullu District of Himachal Pradesh

79. Which one of the following does not share its boundary with Arunachal Pradesh ?
    (1) China
    (2) Assam
    (3) Bhutan

    (4) Nagaland
    (5) Meghalaya

80. Which one among the following pairs is not correctly matched ?
    (1) Chitrakote Falls – Chhattisgarh
    (2) Gokak Falls – Karnataka
    (3) Dhuandhar Falls – Madhya Pradesh
    (4) Duduma Falls – Assam
    (5) Khandadhar Falls – Odisha

81. Which one of the following is not a mineral ?
    (1) Slate
    (2) Limestone
    (3) Coal
    (4) Bauxite
    (5) Calcite

82. Which of the following State has International Border with three countries ?
    (1) West Bengal
    (2) Sikkim
    (3) Mizoram
    (4) Arunachal Pradesh
    (5) Jammu & Kashmir

83. Who was the first monarch of Utkal to declare himself as the Deputy of Lord Jagannath ?
    (1) Chodaganga Dev
    (2) Ananga Bhima Dev III
    (3) Yayati I
    (4) Kapilendra Dev
    (5) Purusottam Dev

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(13)

(Turn over)

84. Which newspaper did inspire national spirit during the Non-cooperation Movement ?
   (1) The Utkal Dipika
   (2) The Utkal Putra
   (3) The Utkal Vatika
   (4) The Samaj
   (5) The Hitaisini

85. In which Zamindari-estate in Odisha a massive peasant movement did break out during Non-cooperation Movement ?
   (1) Kujanga
   (2) Dompada
   (3) Kanika
   (4) Parikuda
   (5) Kalakala

86. When did the Prajamandal Movement begin in Odisha ?
   (1) 1922
   (2) 1932
   (3) 1935
   (4) 1938
   (5) 1942

87. Which place did not come under the Indus Valley Culture ?
   (1) Peshawar
   (2) Harappa
   (3) Lothal
   (4) Kot Diji
   (5) Ropar

88. Which was considered as the main wealth of Aryans ?
   (1) Land
   (2) Gold
   (3) Silver
   (4) Pastures
   (5) Cattle

89. In which language did Buddha teach ?
   (1) Sanskrit
   (2) Magadhi
   (3) Pali
   (4) Shauraseni
   (5) Maithili

90. To which dynasty did Kharvela belong ?
   (1) Gangas
   (2) Sungas
   (3) Cholas
   (4) Chedis
   (5) Pandyas

91. Who was the Commander of Satyagrahis during Civil Disobedience Movement in Odisha ?
   (1) Dr. Harekrushna Mahatab
   (2) Pandit Gopabandhu Dash
   (3) Acharya Harihar Dash
   (4) Surendra Nath Das
   (5) Surajmal Saha

92. "Kausalya Gang" an artificial lake near Dhauli hills was dug by :
   (1) Chodaganga Dev
   (2) Ananga Bhima Dev III
   (3) Narasimha Dev I
   (4) Bhanu Dev I
   (5) Bhanu Dev II

KI – 1A/13   (14)   Contd.

93. 'Ghoomar' is a dance form from :
   (1) Jammu & Kashmir
   (2) Punjab
   (3) Himachal Pradesh
   (4) Rajasthan
   (5) Uttarakhand

94. Who among the following Mughal rulers granted the English Company Diwani over Bengal, Bihar and Orissa by the Treaty of Allahabad ?
   (1) Ahmad Shah
   (2) Alamgir II
   (3) Shah Alam II
   (4) Akbar Shah II
   (5) Shah Alam I

95. Who was the Governor General when the Revolt of 1857 started ?
   (1) Lord Canning
   (2) Lord Cornwallis
   (3) Lord Dalhousie
   (4) Lord Bentinck
   (5) Lord Rippon

96. Where was the first university in modern India established ?
   (1) Bombay
   (2) Calcutta
   (3) Lahore
   (4) Madras
   (5) Benaras

97. In MS Word which one of the following functional keys is pressed for spelling and grammar check ?
   (1) F2
   (2) F5
   (3) F7
   (4) F9
   (5) F12

98. In 'https://', s stands for :
   (1) Surfing
   (2) Server
   (3) Sharing
   (4) Secure
   (5) Sourcing

99. Which of the following specifies the distance between page margins and the text written in text area ?
   (1) Format
   (2) Indent
   (3) Word wrap
   (4) Tab stop
   (5) Hanging Indent

100. Fill Handle is the small _____ in the right bottom corner of any selection of cell in a MS Excel spread sheet.
   (1) Black Circle
   (2) Black Rectangle
   (3) Black Semi-circle
   (4) Black Square
   (5) Black Triangle

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