JAHO – 2013 – Set – 4
GA

21349

: INSTRUCTIONS TO CANDIDATES :

THIS BOOKLET CONTAINS 100 QUESTIONS OF 1 MARK EACH IN 16 PAGES. PLEASE CHECK THE QUESTION-SET BEFORE USE.

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

2. Fill in the 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.

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

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 format provided along with the question-set.

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

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

11. Mobile Phone is not allowed inside the Examination Hall. The candidates are strictly advised **not to carry** any mobile phone with them into the Examination Hall. Any candidate who is in possession of Mobile Phone 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.

MZ – 1D/11   (Turn over)

JAHO – 2013 – Set – 4

GENERAL AWARENESS

Time : $1\frac{1}{2}$ hours

Full Marks : 100

Each question carries **1** mark.

*Answer **all** questions.*

1. $(56 \div 24) \times (72 \div (35 - 27) \div 21 - (35 \div 23) \times (69 \div (45 - 38)) \div 15 = ?$
   - (1) – 1
   - (2) 0
   - (3) 0.5
   - (4) 1
   - (5) 1.5

2. A vendor sells potatoes at Rs. 12 per kg, with a defective beam balance, thus selling only 950 grams in lieu of one kg. If his purchasing price is Rs. 10 per kg, then find his rate of profit :
   - (1) 10.52%
   - (2) 14.00%
   - (3) 20.00%
   - (4) 26.31%
   - (5) 33.33%

3. A mobile store owner sold two mobiles of the same model, one at a profit of 20%, while the other at a loss of 5%. If his net profit is Rs. 450, then find his purchase price of each mobile :
   - (1) Rs. 2,000
   - (2) Rs. 2,250
   - (3) Rs. 3,000
   - (4) Rs. 6,000
   - (5) Rs. 6,450

4. A 125 metre long train passes a man, walking along the train line at 5 km/hour in the same direction in which train is moving, in 10 seconds. What is the speed of the train ?
   - (1) 45 km/hour
   - (2) 50 km/hour
   - (3) 54 km/hour
   - (4) 55 km/hour
   - (5) 58 km/hour

5. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days A can do the work if he is assisted by B and C on every third day ?
   - (1) 10
   - (2) 12
   - (3) 15
   - (4) 18
   - (5) 18

6. Present ages of Anand and Rakesh are in the ratio of 5 : 4. After three years the ratio of their ages

will be 11 : 9. What is Rakesh's present age ?

(1) 24   (2) 27

(3) 30   (4) 32

(5) 40

7. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of both their marks. The marks secured by both of them are :

(1) 39, 30   (2) 40, 31

(3) 41, 32   (4) 42, 33

(5) 43, 34

8. A number of two digits is seven times the sum of its digits. Choose the possible number :

(1) 45   (2) 53

(3) 63   (4) 74

(5) 87

9. If 'x' is a positive integer then find the value of 'x' from the given equation $7x^2 + 9x - 126 = 280$:

(1) 3   (2) 7

(3) 9   (4) 17

(5) 51

10. Simplify the following equation to find the value of 'X' :

$X = 5\sqrt{80} - 2\sqrt{500} + 4\sqrt{125} - 3\sqrt{45}$

(1) 9   (2) $9\sqrt{5}$

(3) 11   (4) $11\sqrt{5}$

(5) $16\sqrt{5}$

11. Choose the correct answer by studying the statement given within the bracket :

(Most fish do not sink in water because they have (i) swim bladder / (ii) air bladder / (iii) air sacs / (iv) air in spongy bones)

(1) Both (i) and (ii) are correct

(2) Both (ii) and (iii) are correct

(3) Both (iii) and (iv) are correct

(4) Both (i) and (iii) are correct

(5) Both (ii) and (iv) are correct

12. Plants that grow in saline water are called :

(1) Mesophytes

(2) Hydrophytes

(3) Halophytes

(4) Thallophytes

(5) Xerophytes

13. In RNA, Thymine is replaced by :

(1) Uracil

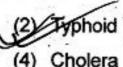(2) Adenine

(3) Guanine

(4) Cytosine

(5) None of the above

14. Which one of the following is a true fish ?

    (1) Star fish   (2) Cuttle fish

    (3) Dog fish   (4) Jelly fish

    (5) Shell fish

15. Which one is the largest as well as heaviest mammal in the world ?

    (1) Tiger   (2) Lion

    (3) Kangaroo   (4) Elephant

    (5) Blue whale

16. Widal test is employed for detecting :
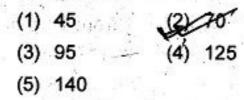
    (1) Malaria   (2) Typhoid

    (3) Fileria   (4) Cholera

    (5) AIDS

17. The radius of a spherical globe is 21 cm. Which of the following measurements of the same is wrong ?

    (1) Length of polar axis – 42 cm.

    (2) Length of a meridian – 66 cm.

    (3) Equatorial circumference – 132 cm.

    (4) Area of the equatorial plane – 1386 sq. cm.

    (5) Volume of the globe – 38808 sq. cm.

18. In a rectangle ABCD, if CB is extended to E such that BE is equal to BC, then which of the following equations will be incorrect ?
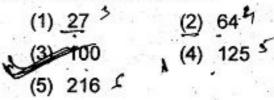
    (1) $DE^2 = AB^2 + CE^2$

    (2) $DE^2 = DC^2 + CE^2$

    (3) $DE^2 = AB^2 + (AD + BE)^2$

    (4) $DE^2 = AB^2 + 2BE^2$

    (5) $DE^2 = CD^2 + (2BC)^2$

19. The largest quadrilateral that can be inscribed in a circle is :

    (1) Rectangle   (2) Square

    (3) Trapezium   (4) Rhombus

    (5) Parallelogram

20. How many prime numbers are there between 1 and 100 ?

    (1) 23   (2) 24

    (3) 25   (4) 31

    (5) 33

21. Find the greatest number that divides 435, 925 and 1835 so as to leave the same remainder in each case :

    (1) 45   (2) 70

    (3) 95   (4) 125

    (5) 140

22. Find the odd one out :

    (1) 27   (2) 64

    (3) 100   (4) 125

    (5) 216

23. Find the value of 'X' in the series –

    22, 21, 23, 22, 24, 23, 'X' :

    (1) 22   (2) 24

(3) 25 (4) 26

(5) 27

24. Choose the logical replacement for '?' in the series – ZA5, Y4B, XC6, W3D, '?' :

(1) E7V (2) V2E

(3) VE5 (4) V7E

(5) VE7

25. Cup is to Coffee, as Bowl is to :

(1) Food (2) Drink

(3) Dish (4) Soup

(5) Spoon

Direction (Q. Nos. 26 to 30) : Answer the questions using the data given in the following table :

Number of units (in Crores) sold by six different companies over the years 1997 to 2002.

Company \ Year	1997	1998	1999	2000	2001	2002
L	107.0	80.00	28.48	38.0	26.5	36.60
M	175.1	76.00	31.38	43.0	27.5	32.80
N	156.6	66.49	43.70	45.2	19.0	40.12
O	112.4	78.24	56.60	35.1	25.1	25.00
P	95.1	111.80	53.20	48.9	22.5	37.00
Q	192.0	72.18	31.04	42.2	17.0	30.00

26. Number of units sold by company M in the year 2002 is what percent of the total number of units sold by all the companies together in that year?

(1) 12.40 (2) 14.89

(3) 16.28 (4) 18.16

(5) 19.91

27. Which company has sold the maximum number of units over the six years ?

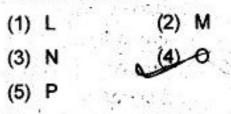(1) Q (2) P

(3) N (4) M

(5) L

28. Which year is the lowest percentage increase/decrease in the number of units sold from the previous year for Company L ?

(1) 2002 (2) 2001

(3) 2000 (4) 1999

(5) 1998

29. What is the approximate average of the number of units sold per company in the year 1999 ?

(1) 4274000 (2) 40730000

(3) 407300000 (4) 427400000

(5) 4073000000

30. Which company does show a continued retardation in its sales over the years ?

(1) L (2) M

(3) N (4) O

(5) P

31. The compound interest on an investment at 5% per annum for two

years amounts to Rs. 246. What will be the maturity value of the investment after three years with a simple interest of 6% per annum rounded to nearest rupee ?

(1) Rs. 2,446   (2) Rs. 2,568

(3) Rs. 2,593   (4) Rs. 2,760

(5) Rs. 2,832

32. If the length and breadth of a room are increased by 2 metres each the area of the room gets increased by 40 square meters. However, if the length of the room increases by 2 metres but the breadth decreases by 2 metres, the area gets decreased by 12 square metres. Determine the length, breadth and perimeter of the room :

(1) 4, 3, 14   (2) 7, 4, 22

(3) 9, 5, 28   (4) 11, 7, 36

(5) 13, 9, 44

33. Rabi started from a point P towards North at a certain time and after sometime Buxi also started from P towards North and caught up with Rabi at 12.00 noon. Had Buxi started an hour later, he would have caught up with Rabi at 4.00 PM. What is the ratio between the speeds of Rabi and Buxi ?

(1) 2 : 3   (2) 3 : 2

(3) 3 : 4   (4) 4 : 3

(5) 4 : 5

34. Bela is a florist who sells flower bouquets of two types only. In each of the bouquet of type A she uses 4 orchids and 9 roses, whereas in each bouquet of type B she uses 2 orchids and 3 roses. She sells each type A bouquet for Rs. 60 and each type B bouquet for Rs. 21. If she has a stock of 100 orchids and 200 roses only, what could be the least amount realised by her by selling the bouquets ?

(1) 1320   (2) 1338

(3) 1341   (4) 1350

(5) 1356

35. Amit has a certain amount in Re. 1 and Rs. 10 notes. The number of Re. 1 notes multiplied by the number of Rs. 10 notes equals the total money (in Rs.) that he has. If the number of Rs. 10 notes is less than 10, which of the following is a possible figure for the total number of notes that he can have ?

(1) 14   (2) 15

(3) 16   (4) 18

(5) 20

36. If selling price is doubled, the profit triples. Find the percentage of profit :

(1) 66.66   (2) 75

(3) 100   (4) 105.33

(5) 120

37. By selling an umbrella for Rs. 30, a shopkeeper gains 20%. If during a clearance sale, the shopkeeper allows a discount of 10% on his selling price, his gain in percent during the clearance sell period is :

(1) 7.0   (2) 7.5

(3) 7.8   (4) 8.0

(5) 9.0

38. A wholesaler gains 25% by selling a commodity and a retailer gains 30% by selling it. If the retail price of that commodity is Rs. 325, then the purchase price of the wholesaler is :
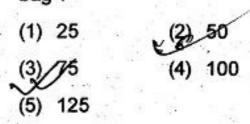
(1) Rs. 200   (2) Rs. 225

(3) Rs. 245   (4) Rs. 255

(5) Rs. 275

39. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero ?

(1) 0   (2) 1

(3) 10   (4) 19

(5) 20

40. A bag containing only coins of Rs. 5, Rs. 2 and Re. 1 in the ratio of 1 : 2 : 3 amounts to 300 rupees in all. How many Re. 1 coins are there in the bag ?

(1) 25   (2) 50

(3) 75   (4) 100

(5) 125

41. A high tide occurred at Puri beach on the 5th September, 2013 at 10.20 AM. When should the next high tide occur again at the same place ?

(1) 04.33 PM on 05. 09. 2013

(2) 10.20 PM on 05. 09. 2013

(3) 10.46 PM on 05. 09. 2013

(4) 10.20 AM on 06. 09. 2013

(5) 10.52 AM on 06. 09. 2013

42. An aircraft took a flight from New Delhi at 00.30 AM I.S.T. on the 4th September, 2013 and reached Honolulu (Hawaii islands) after 22 hours. If the standard meridian of Honolulu is 150° W, find the local time and date of arrival of the aircraft at the destination :

(1) 03. 09. 2013 at 09.00 AM

(2) 04. 09. 2013 at 07.00 AM

(3) 04. 09. 2013 at 10.30 PM

(4) 05. 09. 2013 at 07.00 AM

(5) 05. 09. 2013 at 12.00 Noon

43. In which layer of the atmosphere is carbon dioxide and water vapour present ?

    (1) The Troposphere
    (2) The Stratosphere
    (3) The Mesosphere
    (4) The Thermosphere
    (5) The Exosphere

44. Which river in India is called the "Dakshin Ganga" ?

    (1) The Periyar   (2) The Kaveri
    (3) The Krishna   (4) The Godavari
    (5) The Mahanadi

45. Which country is known as the "land of thousand lakes" ?

    (1) Norway   (2) Sweden
    (3) Finland   (4) Denmark
    (5) Netherland

46. Which is the longest river in the world ?

    (1) The Yenisey
    (2) The Mississippi-Missouri
    (3) The Amazon
    (4) The Nile
    (5) The Yangtze

47. Winds carry the heat from one place to another. What is the process known as ?

    (1) Conduction   (2) Convection
    (3) Radiation   (4) Advection
    (5) Evaporation

48. Which of the following has very high carbon content ?

    (1) Hematite   (2) Diamond
    (3) Bauxite   (4) Gypsum
    (5) Dolomite

49. Which primitive people are nomadic herders in the Sahara desert ?

    (1) Pigmies   (2) Eskimos
    (3) Bantus   (4) Semangs
    (5) Bedouins

50. Which Muslim invader had ransacked Delhi ?

    (1) Kutubuddin Aibak
    (2) Mohammed Ghori
    (3) Taimur Lang
    (4) Mahmud Ghazni
    (5) Mohammed Bin Kasim

51. In which of the following orders one would notice rivers while moving from North to South in Coastal Odisha ?

    (1) The Subarnarekha, The Budhabalang, The Baitarani, The Brahmani, The Mahanadi, The Rushikulya
    (2) The Subarnarekha, The Baitarani, The Budhabalang, The Brahmani, The Mahanadi, The Rushikulya

(3) The Budhabalang, The Subarnarekha, The Baitarani, The Brahmani, The Mahanadi, The Rushikulya

(4) The Subarnarekha, The Budhabalang, The Brahmani, The Baitarani, The Mahanadi, The Rushikulya

(5) The Rushikulya, The Budhabalang, The Baitarani, The Brahmani, The Mahanadi, The Subarnarekha

52. A one day cricket match between West Indies and India played at Port of Spain (60° W) commenced at 9.00 AM local time. At what time can its telecast be viewed in India ?

(1) 11.30 PM, previous day

(2) 09.00 AM, same day

(3) 06.30 PM, same day

(4) 09.00 PM, same day

(5) 09.00 AM, next day

53. Which ocean is not in contact with the Asian Continent ?

(1) The Atlantic

(2) The Pacific

(3) The Indian

(4) The Southern

(5) The Arctic

54. Find the odd pair out :

(1) Tamil Nadu – Tamil

(2) Malayalam – Kerala

(3) Karnataka – Kannada

(4) Maharashtra – Marathi

(5) Goa – Konkani

55. Which of the following hill stations in India is different from the rest in terms of its location ?

(1) Manali   (2) Simla

(3) Ooty   (4) Patni Top

(5) Nainital

56. Which of the following river valley projects in India does not produce hydroelectricity ?

(1) The Bhakra-Nangal

(2) The Hirakud

(3) The D. V. C.

(4) The Farakka

(5) The Nagarjun Sagar

57. Which of the following areas in India does not get rainfall from the south-west monsoon ?

(1) The Malabar Coast

(2) The Konkan Coast

(3) The Odisha Coast

(4) The Andhra Coast

(5) The Coromondal Coast

58. Choose the sea port in India which is different from the other four in terms of its location :
    (1) Kandla   (2) Haldia
    (3) Marmagao   (4) Cochin
    (5) Mumbai

59. Through which sea route does India carry its trade with Australia ?
    (1) The Suez route
    (2) The Panama route
    (3) The Cape route
    (4) The Singapur route
    (5) The Atlantic route

60. Given below are some of the railway zones in India and corresponding headquarters. Identify the incorrect pair :
    (1) North Eastern – Gorakhpur
    (2) North Central – Allahabad
    (3) South-East Central – Bilaspur
    (4) South Western – Hubli
    (5) South Central – Jabalpur

61. Following are some pairs containing the names of eminent personalities with their great contributions. Identify the incorrect one :
    (1) Annie Besant – Theosophical Society of India
    (2) Baden Powell – Scout Movement

(3) Satyajit Roy – Choreography
    (4) Raja Rammohan Roy – Brahmo Samaj
    (5) Swami Vivekananda – Vedanta Philosophy

62. Which Indian painter had produced the film "Gaja Gamini" involving his muse Madhuri Dixit ?
    (1) Tyeb Mehta
    (2) M. F. Hussain
    (3) Rameswar Broota
    (4) Francis Newton Souza
    (5) Syed Haider Raza

63. In which game is the term "Bull's Eye" used ?
    (1) Rifle shooting   (2) Polo
    (3) Golf   (4) Billiards
    (5) Rugby

64. An eminent hockey player who has been a member of Odisha Legislative Assembly is :
    (1) Dilip Tirkey
    (2) Prabodh Tirkey
    (3) Ignace Tirkey
    (4) Gregory Minz
    (5) Lazarus Barla

65. Who is the overall top goal scorer in the World Cup Football ?
    (1) Pele

(2) Ronaldo

(3) Thomas Muller

(4) Maradona

(5) Just Fontaine

66. Who is the author of the book "Rudaali" ?

(1) Rabindra Nath Tagore

(2) Arundhati Roy

(3) Mahasweta Devi

(4) Nirad C. Choudhuri

(5) Bankim Chandra Chatterjee

67. Who is the author of the Odia book "Jagyanseni" ?

(1) Bhagwana Das

(2) Bhagirathi Das

(3) Bibhuti Patnaik

(4) Pratibha Ray

(5) Manoj Das

68. Which award is given by UNESCO for exceptional skill in presenting scientific ideas to lay people ?

(1) Magsaysay Award

(2) Kalinga Prize

(3) Nehru Award

(4) Indira Gandhi Award

(5) Booker Prize

69. Which bank was set up in 1955 to take over the assets and liabilities of the Imperial Bank after nationalisation ?

(1) Reserve Bank of India

(2) Punjab National Bank

(3) Bank of Baroda

(4) Bank of India

(5) State Bank of India

70. Which of the following is contrary to the objectives of development planning process in India ?

(1) High rate of growth

(2) Social justice

(3) Economic self-reliance

(4) Concentration of economic power

(5) Improvement in the level of living of the people

71. Select the correct sequence of the historical events given in the bracket :

(A – Visit of Simon Commission to India ; B – End of First World War ; C – Lahore Session of Congress ; D – Jalianwala Bagh Tragedy.)

(1) ABCD   (2) ADBC

(3) BCDA   (4) BDAC

(5) CBAD

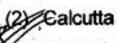72. Four of the following are the "Heroes of first Indian War of

Independence, 1857", while one is not. Identify the one :
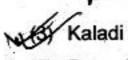
(1) Tantya Tope

(2) Rani Laxmi Bai

(3) Nana Sabeb

(4) Mangal Pandey

(5) Udham Singh

73. Who had revoked the Bengal Partition ?

(1) Lord Curzon

(2) Lord Minto

(3) Lord Hardinge

(4) Lord Chelmsford

(5) Lord Irwin

74. Wherein India did the East India Company start trading ?

(1) Calicut   (2) Calcutta

(3) Bombay   (4) Madras

(5) Delhi

75. Tulsidas flourished during the reign of :

(1) Sher Shah Suri

(2) Babar

(3) Humayun

(4) Akbar

(5) Shahjahan

76. Which is the birth place of "Adishankaracharya" ?
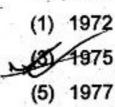
(1) Kanchi   (2) Puri

(3) Kaladi   (4) Sringeri

(5) Dwaraka

77. Which of the following is no more a Fundamental Right of an Indian Citizen ?

(1) Right to property

(2) Right to equality

(3) Right to freedom

(4) Right against exploitation

(5) Right to constitutional remedies

78. In which year was the Indian states reorganised on linguistic basis ?

(1) 1947   (2) 1951

(3) 1952   (4) 1956

(5) 1966

79. The 36th Constitutional Amendment for making Sikkim the 22nd State of the Indian Union was admitted in the year :

(1) 1972   (2) 1974

(3) 1975   (4) 1976

(5) 1977

80. Identify the organisation that is not associated with the United Nations :

(1) U. N. O.   (2) U. N. I.

(3) U. N. E. P.   (4) U. N. E. F.

(5) U. N. D. P.

MZ – 1D/11   (13)   (Turn over)

81. Which gas law does state that "The pressure of a gas of fixed mass and fixed volume is directly proportional to the gas' absolute temperature" ?

(1) Avogadro's Law

(2) Boyle's Law

(3) Charles Law

(4) Gay-Lussac's Law

(5) Graham's Law

82. Which group of organisms does play the role of breaking down the organic matter in the dead plants and animals ?

(1) Producers　(2) Herbivores

(3) Carnivores　(4) Omnivores

(5) Decomposers

83. Which one of the following gases is primarily responsible for green house effect and resultant global warming ?

(1) Nitrogen

(2) Oxygen

(3) Ozone

(4) Carbon dioxide

(5) Argon

84. The most commonly used bleaching agent is :

(1) Alcohol

(2) Chlorine

(3) Methane

(4) Carbon dioxide

(5) Sodium chlorine

85. Which of the following has the longest life span ?

(1) Man　　　(2) Tiger

(3) Elephant　(4) Horse

(5) Parrot

86. Water molecule is :

(1) A reducing agent

(2) An oxidizing agent

(3) Non-polar

(4) Highly polar

(5) All of the above

87. Which one of the following is the smallest bird ?

(1) Albatross　(2) Crow

(3) Kiwi　　　(4) Humming bird

(5) Sparrow

88. Mycology is the study of :

(1) Fungi　　　(2) Algae

(3) Hydrilla　　(4) Rhizobium

(5) Virus

89. In human beings, the digestion of food is completed in the :

(1) Large intestine

(2) Small intestine

(3) Stomach

(4) Rectum

(5) Colon

90. One heartbeat in man is completed in about :

(1) 0.1 second   (2) 0.33 second

(3) 0.5 second   (4) 0.8 second

(5) 1 second

91. Which party has recently won the Parliamentary Elections in Australia ?

(1) Coalition

(2) Australian Greens

(3) Australian Democrats

(4) Australian Labour Party

(5) Katter's Australian Party

92. Which of the following is not a function of the National Development Council ?

(1) Prescribe guidelines for the formulation of the National Plan

(2) Consider important questions of social and economic policy affecting national development

(3) Consider the National Plan as formulated by the Planning Commission

(4) Review the working of the Plan from time to time and to recommend necessary

measures for achieving the aims and targets

(5) Formulate National Five Year Plans

93. Which of the following taxes and/or duties levied in India is exclusively in the State List ?

(1) Land Revenue

(2) Income Tax

(3) Estate Duty

(4) Customs and Excise Duty

(5) Corporation Tax

94. What is India's ranking in World Prosperity Index List for 2012 ?

(1) 70   (2) 78

(3) 88   (4) 101

(5) 104

95. Which one of the following facts is not true for the "National Food Security Bill, 2013" ?

(1) 75 percent of rural and 50 percent of the urban population entitled to five kg food grains per month at ₹ 3, ₹ 2 and ₹ 1 per kg for rice, wheat and coarse grains respectively

(2) Pregnant women and lactating mothers are entitled to