

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO.

2015

TEST BOOKLET

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

Full marks : 100

Answer all the questions

Questions are of equal value

TEST BOOKLET SERIES

D

03716

Serial No. _____

Signature of the Candidate

INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions

1. This booklet consists of 14 pages including this front page. Verify the Page Nos and Test Booklet Series on each page and bring at once to the Invigilator's notice any discrepancy.
2. Answers will have to be given in the Special Answer-Sheet supplied for the purpose.
3. Before you proceed to mark in the Answer-Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer-Sheet as per instructions sent to you in the Admit Card. **Do not fold the Answer-Sheet as this will result in error in your marks**
4. All questions are of multiple-choice answer-type. You will find four probable answers (A), (B), (C) and (D) against each question. Find out which of the four answers appears to you to be correct or the best. Now darken the oval corresponding to the letter of the selected answer in the Answer-Sheet with **Black Ball Point Pen** as per instructions printed on the reverse of the Admit Card and in the Answer-Sheet.
5. If more than one oval is encoded for a particular answer, it will be treated as a wrong answer.
6. There will be negative marking of $1/3$ mark for each wrong answer.
7. There are blank pages at the end of this booklet for Rough Work.
8. The Special Answer-Sheet should be handed over to the Invigilator before leaving the Examination Hall. You are permitted to take away the used Test Booklet after completion of the examination.

(Please Turn Over)

SSST

D-2

2. The highest run scored by an Indian batsman in the Semi-Final Match of the World Cup Cricket, 2013 was

- (A) Virat Kohli
- (B) Suresh Raina
- (C) Mahendra Singh Dhoni
- (D) Shikhar Dhawan

3. The agency that estimates India's National Income is

- (A) Central Statistical Organization (CSO)
- (B) RBI
- (C) NITI Aayog
- (D) SEBI

4. The 'Human Development Report' is published every year by

- (A) IMF
- (B) World Bank
- (C) UNDP
- (D) WTO

5. The currency note Rs 100/- in India is signed by

- (A) Secretary, Ministry of Finance, Govt of India
- (B) President of India
- (C) Governor, Reserve Bank of India
- (D) Prime Minister of India

6. The score which occurs most frequently is called

- (A) Mean
- (B) Median
- (C) Mode
- (D) Standard Deviation

7. Agriculture under the Indian Constitution

- (A) State subject
- (B) Union Government Subject
- (C) Concurrent List
- (D) None of the above

8. The Centenary Conference of the Indian Science Congress held in 2013 was at

- (A) New Delhi
- (B) Mumbai
- (C) Chennai
- (D) Kolkata

9. Which is the Spice garden of India ?

- (A) Assam
- (B) Kerala
- (C) Himachal Pradesh
- (D) Tamil Nadu

10. The literacy rate in India as per 2011 is

- (A) 74.01
- (B) 73.04
- (C) 74.04
- (D) 71.01

11. 31st March is observed as

- (A) International Day of Peace
- (B) World No-Tobacco Day
- (C) World Press Freedom Day
- (D) World Poetry Day

12. "Order of the Rising Sun, C. 2015, the highest Civilian conferred on

- (A) Prof. C. N. R. Rao
- (B) Smt. Poojam Sune
- (C) Dr. Alka Beotra
- (D) None of the above

13. 12 year old Musim G. school Competition on C

- (A) Ayesha Nazrin
- (B) Jishoda Bann
- (C) Maryam Asif Siddiqi
- (D) None of the above

14. 'Learning to be' is a reflection of -

- (A) Self actualization
- (B) Manifestation of p
- (C) Unification of u
- (D) Salvation of soul

which occurs most frequent

- 31st March is observed as
- (A) International Day of Families
 - (B) World No-Tobacco Day
 - (C) World Press Freedom Day
 - (D) World Poetry Day

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under the Indian Constitution

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overnment Subject

ent List

the above

11. "Order of the Rising Sun, Gold and Silver Star 2015" the highest civilian Award of Japan was conferred on
- (A) Prof. C N R Rao
 - (B) Sena Poomam Sare
 - (C) Dr. Alka Beotra
 - (D) None of the above

ry Conference of the In

ress held in 2013 was in

lu

12. 12 year old Muslim Girl who won the inter school Competition on Geta Champions League is
- (A) Ayesha Nazim
 - (B) Jubeda Bano
 - (C) Maryam Asif Siddiqui
 - (D) None of the above

Episc garden of India ?

13. 'Learning to be' in Delor Report is the reflection of -
- (A) Self actualization as goal of education
 - (B) Manifestation of perfection already in man
 - (C) Unification of individual self with the eternal self
 - (D) Salvation of soul

Pradesh

u

te in India as per 2011

14.

What is the meaning of effective time for teachers ?

- (A) The actual number of class hours utilized
- (B) The number of hours the teacher remains present
- (C) The actual time the teacher remains engaged in teaching
- (D) The time between entrance and exit from class room

15. "School as to train children in co-operative and mutually helpful living" The author of this quotation was committed to -

- (A) Naturalism
- (B) Idealism
- (C) Pragmatism
- (D) Realism

What is the full form of SCERT ?

- (A) State Council for Evaluation, Research and Training
- (B) State Cooperation for Educational, Rural Training
- (C) State Council for Education, Research and Training
- (D) State Council for Evaluation, Research and Technology

16. Multi-cultural education is suitable for -

- (A) Socio-economically disadvantaged children
- (B) Socio-economically isolated areas
- (C) Urban schools
- (D) Rural schools

EX-75

D-4

18. Barrier-free class room is concerned with
 (A) Non-discrimination
 (B) Inclusive teaching
 (C) Freedom to choose subjects
 (D) Freedom to choose mode of evaluation
19. Encoding and Decoding are the two terminals of -
 (A) Communication process
 (B) Memory storage system
 (C) Divided attention
 (D) Intelligent tutoring
20. The challenge of Education is the cause of -
 (A) The first draft of NPE, 1986
 (B) Document comprising NPE, 1986
 (C) The first draft of Ramamurti Committee
 (D) Report of the Task Force on Teacher Education
21. Which one is most effective in maintaining sustained attention of the learners?
 (A) Using colourful charts
 (B) Using wellstructured lecture
 (C) Getting occasional feedback
 (D) Bringing about variety
22. Why are multiple choice questions preferred to other forms of objective tests?
 (A) It minimises probability of guessing
 (B) It is objective
 (C) It is difficult
 (D) It eliminates guessing totally

23. Where is the head quarter of NAAC? ^{10/11/20}
 (A) Delhi
 (B) Hyderabad
 (C) Mumbai
 (D) Bangalore
24. What is the principal purpose of Instros. Analysis?
 (A) Institutional evaluation
 (B) Institutional budgeting
 (C) Institutional goal
 (D) Institutional planning
25. 'Man is potentially divine' - this is an idealistic view of _____
 (A) Sri Aurobindo
 (B) Mahatma Gandhi
 (C) Swami Vivekananda
 (D) Rabindranath
26. Having the values of M and SD known transforming a raw score in terms of distribution with $M=50$ and $SD=10$ is a
 (A) Normalisation
 (B) Standard score
 (C) t-test
 (D) Transformed score

27. What does signify?
 (A) Not to m
 (B) Learning
 (C) Relating
 (D) Explorin
28. Which one s by macropla
 (A) Lesson
 (B) Prepara
 (C) Prepara
 (D) Prepara
29. What is the
 (A) To ree
 (B) To brn
 (C) To ree
 (D) To ree
 exam
30. The full fo
 (A) Nation
 (B) Nation
 Educal
 (C) Nation
 Teache
 (D) Nation



37. What does 'meaningful learning' actually signify?

- (A) Not to indulge in rote learning
- (B) Learning after understanding the meaning
- (C) Relating learning to what is already known
- (D) Exploring what is known or unknown

38. Which one is an attempt of time management by macroplanning?

- (A) Lesson planning based on time
- (B) Preparing weekly time-table
- (C) Preparing annual examination schedule
- (D) Preparing annual calendar

39. What is the purpose of remedial teaching?

- (A) To rectify specific learning deficiencies
- (B) To bring the back wards upto standard
- (C) To rectify adaptive deficiency
- (D) To rectify the errors committed in examination

30. The full form of NCFTE is _____

- (A) National Council for Teacher Education
- (B) National Commission for Teacher Education
- (C) National Curriculum Framework for Teacher Education
- (D) National Curriculum for Teacher Education

31. The education acquired without any specific purpose, fixed period and place is called

- (A) Individual education
- (B) Indirect education
- (C) Informal education
- (D) Formal education

32. Who was the supporter of Naturalism in Education?

- (A) Armstrong
- (B) Froebel
- (C) John Locke
- (D) Rousseau

33. The Kothari Commission's report was published in

- (A) 1966
- (B) 1976
- (C) 1986
- (D) 1996

34. The branch of philosophy which deals with spiritual problem is called

- (A) Metascience
- (B) Metabiology
- (C) Metaphysics
- (D) Maya

35. Discipline is must to maintain

- (A) Individual study
- (B) Rule and regulation
- (C) Social set up
- (D) All of the above

EXAM

D 6

36. Conflict between two people's goals is called

- (A) Avoidance Approach Avoidance Avoidance
- (B) Approach Avoidance
- (C) Approach Approach
- (D) Avoidance Approach

37. What is the modern method of acquiring knowledge?

- (A) Authority
- (B) Expert opinion
- (C) Scientific method
- (D) Personal experience

38. a and b are two natural numbers. If $a^2 - b^2 = 36$, then the value of b is

- (A) 2048
- (B) 1024
- (C) 4096
- (D) None of the above

39. Which of the following is divisible by 9?

- (A) 19236
- (B) 8243238
- (C) 2538123
- (D) 4952241

40. A monkey climbing up a palm tree, ascends 7 metres in one minute but slips down 2 metres in next minute and so on. If the height of the tree is 42 metres then in how many minutes the monkey can reach the top of the tree?

- (A) 14 minutes
- (B) 15 minutes
- (C) 28 minutes
- (D) 30 minutes

31. Successive discount of 40% and 30% is equivalent to what single discount percentage?

- (A) 70%
- (B) 65%
- (C) 60%
- (D) 55%

32. A bag contains some Re 1 coins, Rs 2 coins and Rs 5 coins in the ratio of 5 : 6 : 4. If the total value of the coins is Rs 240, then find the total number of coins in the bag.

- (A) 250
- (B) 300
- (C) 350
- (D) 400

33. If loss is $\frac{1}{3}$ of selling price, the loss percentage is

- (A) $36\frac{2}{3}\%$
- (B) 20%
- (C) 25%
- (D) $38\frac{1}{3}\%$

34. In a mixture of 100 litres, the ratio of milk and water is 3 : 1. In order to make the ratio 5 : 2, find the amount of water to be added.

- (A) 15 litres
- (B) 20 litres
- (C) 25 litres
- (D) 30 litres

35. Two pipes A and B can fill a tank in 10 minutes and 15 minutes respectively. If both pipes are opened together then how long will it take to fill the tank?

- (A) 12 min
- (B) 15 min
- (C) 25 min
- (D) 50 min

36. I paid $\frac{3}{4}$ of a bill. If Rs 400 was left, what was the total amount?

- (A) Rs 1400
- (B) Rs 1200
- (C) Rs 1500
- (D) Rs 1800

37. The population of a town was 15% less in the year 1980 than in 1989. What % of the present population is the population in the beginning?

- (A) Increased by 1.9%
- (B) Increased by 1.9%
- (C) Increased by 2.1%
- (D) Increased by 1.2%

38. If the income of A is 10% less than the income of B and the income of B is 20% less than the income of A, B, C

- (A) 22 20 25
- (B) 11 10 8
- (C) 22 18 25
- (D) 10 9 7

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1/L
1/10 + 1/15 = 1/x
1/6 = 1/x
x = 6

$$\frac{100 \times 40 \times 70}{100 \times 100} = 28$$

$$\frac{5x + 6y + 4z}{5+6+4} = 240$$

$$\frac{5x + 6y + 4z}{5+6+4} = 240$$

$$\frac{36 - b^2}{2b} = 18$$

$$90 \times \frac{1}{3} = 30$$

$$\frac{7 \times 32915638}{10} = 224429526$$

$$5m - 2 \times \frac{200}{8} = 5m - 50$$

$$\frac{2 - 5 + 26}{2} = 11.5$$

$$\frac{75}{25m} = \frac{3}{2}$$

$$5 - \frac{2 \times 2}{5} = 4.2$$

$$2 - \frac{5}{5} = 0.8$$

$$5 - \frac{2 \times 36}{5} = 1.6$$

$$5 - \frac{2 \times 200}{5} = 12$$

$$5 - \frac{2 \times 200}{8} = 17.5$$

$$\frac{80 \times 10}{100} = 8$$

88, 80
22, 20

and 30% to
percentage?

$$\frac{177 \times 100}{177} = 100$$

$$\frac{42}{58}$$

oni, B, C come
to the
200, then find
to dig

$$5.12 \times 20$$

$$\frac{10}{20} \times \frac{20}{20}$$

to percentage

$$90 \times \frac{2}{3} = 60$$

$$- \frac{2 \times 25}{8}$$

ratio of milk and
to the ratio 3 : 2
is added

$$\frac{45}{25m} = \frac{3}{2}$$

$$75 + 2m = 15$$

$$5 - \frac{2 \times 3}{8}$$

45. Two pipes A and B can fill a tank in 20 and 70 minutes respectively. If both the pipes are used together, then how long will it take to fill the tank?

- (A) 12 min
- (B) 15 min
- (C) 25 min
- (D) 50 min

$$\frac{1}{20} + \frac{1}{70}$$

$$\frac{7+2}{140} = \frac{9}{140}$$

$$\frac{140}{9} = 15 \frac{5}{9}$$

46. I paid $\frac{1}{3}$ of a bill. If Rs. 400/- of the bill is still due, what was the total amount of the bill?

- (A) Rs. 1000/-
- (B) Rs. 2200/-
- (C) Rs. 1500/-
- (D) Rs. 1800/-

$$\frac{2}{3} = \frac{200 \times 3}{x}$$

$$x = 1000$$

47. The population of a town was reduced by 12% in the year 1988. In 1989, it was increased by 15%. What is the percentage effect on the population in the beginning of 1990?

- (A) increased by 7.5%
- (B) increased by 1.9%
- (C) increased by 2.1%
- (D) increased by 1.2%

48. If the income of A is 10% more than that of B and the income of B is 20% less than that of C then the incomes of A, B, C are in the ratio -

- (A) 22 : 20 : 25
- (B) 11 : 10 : 8
- (C) 22 : 18 : 25
- (D) 10 : 9 : 7

$$\frac{80 \times 110}{110}$$

$$\frac{100 \times 112}{100}$$

$$\frac{100 - C}{80 - B} = \frac{112}{110}$$

$$88 : 80 : 100$$

$$22 : 20 : 25$$

D-7

49. Two trains start from two stations at 5 km/hr and 7 km/hr. In how many hours will they meet?

- (A) 4 hours
- (B) 7 hours
- (C) 12 hours
- (D) 6 hours

$$\frac{20}{50}$$

$$\frac{20}{50} = \frac{2}{5}$$

50. How many digits are required for numbering the pages of a book having 100 pages?

- (A) 299
- (C) 492
- (E) 799
- (D) 793

$$90 \times 1 = 90$$

$$90 \times 2 = 180$$

$$20 \times 3 = 60$$

$$210$$

51. Bharat Ratna was conferred in 2015 to

- (A) Atal Behari Vajpayee
- (B) Amrit Shah
- (C) Subhas Chandra Bose
- (D) Dr. Kavin Singh

$$\frac{100 \times 112 \times 115}{100}$$

52. The book 'Argunnavative Indian' is authored by

- (A) A. P. J. Abdul Kalam
- (B) Ananias Sen
- (C) C. Rajagopalachari
- (D) Mohandas Karamchand Gandhi

53. The present Chairman of UGC is

- (A) Prof. Ved Prakash
- (B) Dr. Hari Gauram
- (C) Prof. S. K. Thorat
- (D) None of the above

$$\frac{112}{115}$$

$$\frac{560}{115}$$

$$\frac{112 \times 100}{115}$$

$$97.39$$

$$\frac{20 \times 100}{100} \times 100$$

$$2000$$

$$\frac{100 - 100}{100}$$

54. ~~Which~~ Which ~~Stratification~~ Stratification took place in India in this year

- (A) 1969
- (B) 1975
- (C) 1991
- (D) 2001

55. The "South Asian University" is situated in

- (A) Colombo
- (B) New Delhi
- (C) Dhaka
- (D) Kathmandu

56. The Mahalanobis strategy of Indian Planning gave emphasis to the growth of

- (A) Agricultural Sector
- (B) Services Sector
- (C) Heavy Capital Goods, Industrial Sector
- (D) Foreign Trade Sector

57. Structural Adjustment Policy was introduced by India in 1991 on taking loan from

- (A) IMF
- (B) World Bank
- (C) Asian Development Bank
- (D) European Union

58. The Indian Spacecraft "Mangalyaan" was launched in

- (A) November, 2013
- (B) September, 2013
- (C) October, 2013
- (D) None of the above

59. The Minister of Food Processing Industries, Govt of India is

- (A) Narendra Singh Tomar
- (B) Anand Gupta
- (C) Harshwarth Kaur Baidal
- (D) None of the above

60. The most thickly populated State, Bihar has a population density of

- (A) 1028 persons per sq km
- (B) 1106 persons per sq km
- (C) 1207 persons per sq km
- (D) None of the above

61. Aruna Shambaug, a victim of sexual assault at her workplace, died on May 18, 2015 after being in a coma for

- (A) 36 years
- (B) 39 years
- (C) 43 years
- (D) 44 years

62. What does a hippobugist study ?

- (A) Hippo culture
- (B) Horses
- (C) Hippopotamus
- (D) None of the above

63. Gandhi Peace Prize for the year 2014 has been awarded to

- (A) Saum Neirwal
- (B) Indian Space Research Organisation
- (C) Bashi Kapoor
- (D) None of the above

What is the evolution?
 (A) Biver
 (B) Cynophila
 (C) Lepidoptera
 (D) All the above

For gonads in female
 (A) Ask 10
 (B) Ask at
 (C) Prostate
 (D) Prostate

Which ob 2009 adon
 (A) Chap
 (B) Chap
 (C) Chap
 (D) None

What is
 (A) To p
 (B) Teat
 (C) Prac
 (D) To r

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 in the ec
 (A) Exp
 (B) Act
 (C) Ide
 (D) Int

65. What is the meaning of comprehensive evaluation?

- (A) Everything taught to the learner
- (B) Completely covered syllabus
- (C) Both knowledge and potentialities
- (D) All the domains of instructional objectives

66. For constructivist teaching learning, the teacher should -

- (A) Ask students to read themselves
- (B) Ask students to cite their own examples
- (C) Present variety of examples
- (D) Prepare analogy from other subjects

67. Which chapter of the Right to Education Act, 2009 adopted the so detested, unintended.

- (A) Chapter II
- (B) Chapter IV
- (C) Chapter VI
- (D) None of the above

68. What is the meaning of simulstated teaching ?

- (A) To practice teaching with the peers
- (B) Teaching to a make belief situation
- (C) Practice of the teaching skills
- (D) To practice teaching using computer software

69. Which type of curriculum is most acceptable in the contemporary world ?

- (A) Experience curriculum
- (B) Activity curriculum
- (C) Idealistic curriculum
- (D) Integrated curriculum

D-9

25/01

69. Competition as motivator is actually -

- (A) Intrinsic motivation
- (B) Extrinsic motivation
- (C) Spontaneous motivation
- (D) Achievement motivation

70. Zakir Husain Committee on New Talam submitted its report in -

- (A) 1927
- (B) 1937
- (C) 1947
- (D) 1957

71. What is the meaning of classroom management?

To maintain in the classroom -

- (A) Discipline
- (B) Adequate learning environment
- (C) Manipulated learning environment
- (D) Active and responding environment

72. What is the meaning of reliability of an achievement test ?

- (A) Useful and dependable
- (B) Capable of yielding desirable result
- (C) Having internal consistency
- (D) Having consistency with other tests

73. Immediate memory span is, in fact, a measure of -

- (A) LTM
- (B) STM
- (C) Information processing
- (D) Sensory memory

74. Which one is most appropriate for the evaluation of predetermined learning outcome?
- Absolute grading
 - Relative grading
 - Numerical assessment
 - Alphabetical grading
75. Which one should be the most acceptable criterion of examination evaluation?
- Students' satisfaction
 - Students' learning outcome
 - Teachers' satisfaction
 - Ease of implementation
76. Intelligence was categorized into types for the first time by _____
- William McDougall
 - William James
 - Gardner
 - Tausone
77. The most probable cause of frequent absenteeism in school may be _____
- Maladjustment
 - Cultural deprivation
 - Lack of awareness
 - Ill health
78. The knowledge and skill that cannot be imparted through regular courses can be provided through _____
- Distance education
 - Technical Schools
 - Formal education
 - Night school

79. According to Carl Rogers, Self is the key to _____

- Guidance
- Maladjustment
- Counseling
- Therapy

80. Privatization of education is an inescapable outcome of _____

- Population explosion
- Economic depression
- Globalization
- Change in social expectation

81. The term Resource Teacher refers to _____

- Specialised teacher for any disability
- Teacher of the special schools
- Specialised teacher under inclusive setting
- Special Educators hired by regular schools

82. In Indian Philosophy the validity of scriptures has been challenged by _____

- The Charvakes
- The Vedants
- Samkhya
- Nvaya

83. The language which is the window of the world is _____

- German
- English
- French
- Spanish

84. Rabindranath Tagore's idea of education is _____

- Education for all
- Education for allness
- Education for liberation
- Education for Man making

85. Learning is basically _____

- Group process
- Individual process
- Social process
- Co-operational process

86. Psychology is _____

- Science of nation
- Science of behaviour
- Science of magic
- Science of science

87. History tells us of the changing _____

- Habit of nation
- Thoughts of nations
- Both (a) and (b)
- Social culture

88. A child has the first experience of _____ from _____

- Primary group
- Family group
- Cultural group
- Play group

D-11

80. Mahatma Tagore's idea of education is
 (A) Education for all
 (B) Education for allness
 (C) Education for liberation
 (D) Education for Man-making

85. Learning is basically
 (A) Group process
 (B) Individual process
 (C) Social process
 (D) Co-operational process

86. Psychology is
 (A) Science of nation
 (B) Science of behaviour
 (C) Science of magic
 (D) Science of science

87. History tells us of the changing
 (A) Habit of nation
 (B) Thought of nation
 (C) Both (a) and (b)
 (D) Social culture

88. A child has the first experience of social group from
 (A) Primary group
 (B) Family group
 (C) Cultural group
 (D) Play group

89. The greatest fraction of $\frac{7}{8}, \frac{5}{11}, \frac{9}{11}$ and $\frac{2}{7}$ is

- (A) $\frac{5}{11}$
 (B) $\frac{7}{8}$
 (C) $\frac{9}{11}$
 (D) $\frac{2}{7}$

$$\frac{7}{8} = \frac{7 \times 11 \times 7}{8 \times 11 \times 7} = \frac{686}{616}$$

$$\frac{5}{11} = \frac{5 \times 56}{11 \times 56} = \frac{280}{616}$$

$$\frac{9}{11} = \frac{9 \times 56}{11 \times 56} = \frac{504}{616}$$

$$\frac{2}{7} = \frac{2 \times 88}{7 \times 88} = \frac{176}{616}$$

90. Which order is correct?
 (A) $(19+17) > (10+16) > (13+12) > (14+11)$
 (B) $(19+17) > (10+16) > (14+12) > (13+11)$
 (C) $(19+17) > (14+12) > (10+16) > (13+11)$
 (D) $(19+17) > (14+12) > (13+11) > (10+16)$

91. A student has in scores 40% marks to pass. He gets 172 and gets 12 marks more than required to pass. Find the total marks in the examination.

- (A) 506
 (B) 400
 (C) 300
 (D) 600

$$\frac{160 \times 100}{40} = 400$$

92. In an examination 52% of the candidates failed in English, 42% failed in Maths and 17% failed in both. If 2300 students appeared, find the number of students passed in both subjects.

- (A) 500
 (B) 319
 (C) 529
 (D) 939

$$23 \times 2300 = 52900$$

$$\frac{52900}{100} = 529$$

6305

D-12

93. The mean proportional of 0.72 and 9.02 is

- (A) 1.7
- (B) 2.01
- (C) 0.8
- (D) 9.608

94. A's salary is 50% more than B's. How much percent is B's salary less than A's?

- (A) 33%
- (B) $33\frac{1}{4}\%$
- (C) $33\frac{1}{3}\%$
- (D) $73\frac{1}{2}\%$

95. The sum of all the odd numbers from 1 to 150 is

- (A) 5625
- (B) 5600
- (C) 5650
- (D) 5670

$$15n = 47$$

$$\frac{15n}{15} = \frac{47}{15}$$

$$15n = 47$$

$$n = \frac{47}{15}$$

96. If $5x = 0.04y$ then the value of $\frac{y-x}{y+y}$ is -

- (A) $\frac{730}{77}$
- (B) $\frac{73}{77}$
- (C) $\frac{73}{770}$
- (D) $\frac{703}{77}$

$$5x = 0.04y$$

$$\frac{5x}{5} = \frac{0.04y}{5}$$

$$x = \frac{0.04y}{5}$$

$$x = \frac{4y}{100}$$

$$150x = 4y$$

$$150n = 4y$$

$$y = \frac{150n}{4}$$

$$\frac{25x - x}{2}$$

$$\frac{24x}{2} = 12x$$

$$\frac{75x}{2} + x$$

$$\frac{75x + 2x}{2} = \frac{77x}{2}$$

$$\frac{25x}{2}$$

$$y = \frac{150n}{4}$$

97. The product of two positive numbers is 11520

and their quotient is $\frac{9}{5}$. Their difference is -

- (A) 60
- (B) 70
- (C) 80
- (D) 74

98. The radius of a circle is increased by 1%. The percentage increase in area is

- (A) 2.01%
- (B) 1%
- (C) 1.1%
- (D) 2%

$$2.10 \times 10 = 21.00$$

99. 3 men can finish a piece of work in 40 days. If 2 more men join them, then the work will be completed in -

- (A) 30 days
- (B) 36 days
- (C) 25 days
- (D) 32 days

$$150n = 47$$

$$n = \frac{47}{150}$$

100. The difference between the present ages of Anil and Raju is 6 years. The ratio between their ages after 4 years will be 3 : 4. What can be the present age of Raju?

- (A) 15 years
- (B) 18 years
- (C) 20 years
- (D) 24 years

$$u + 4$$

$$u + 6 + 4$$

$$\frac{u+4}{u+10} = \frac{3}{4}$$

$$4(u+4) = 3(u+10)$$

$$4u + 16 = 3u + 30$$

$$u = 14$$

$$\frac{73n}{2}$$

$$\frac{73}{2}$$

$$\frac{73 \times 72}{2}$$

$$\frac{73 \times 72}{2}$$