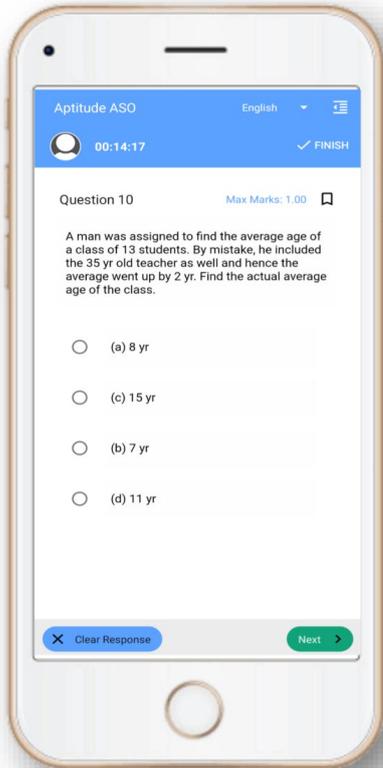


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BSSO(Prelim) – 2017 – Set – 1**GA**

Time : 1½ hours

Full Marks : 100

Each question carries 1 mark.

There is negative marking of 0.25 mark for each wrong answer.Answer **all** questions, choosing the correct **one** from the alternatives suggested and darken the appropriate circle using **BLUE or BLACK BALL POINT PEN.**

- The atomicity of which of the following elements is different from the other three ?
 - Chlorine
 - Nitrogen
 - Oxygen
 - Ozone
- Which among the following is a compound ?
 - Air
 - Cement
 - Salt
 - Paint
- The specific gravity of which among the following metals is the highest ?
 - Gold
 - Lead
 - Mercury
 - Silver
- Which of the following quantum numbers distinguishes the orbitals available within a subshell of an atom ?
 - Azimuthal quantum number
 - Magnetic quantum number
 - Principal quantum number
 - Spin quantum number
- In the Modern Periodic Table which of the following blocks of elements are strong reducing agents ?
 - d-block elements
 - f-block elements
 - p-block elements
 - s-block elements
- Which of the following compounds has dative bonding ?
 - Ammonia
 - Lithium Fluoride
 - Magnesium Sulfide
 - Sodium Chloride



7. Which law states that 'the pressure of a given mass of gas varies directly with the absolute temperature of the gas, when the volume is kept constant' ?

- (1) Boyle's law
- (2) Charles' law
- (3) Dalton's law
- (4) Gay Lussac's law

8. Which among the following alloys of nickel is used for making permanent magnets ?

- (1) Alnico
- (2) Ferronickel
- (3) German silver
- (4) Nichrome

9. Which electrical device senses the temperature of a physical system and performs actions so that the system's temperature is maintained near a desired setpoint ?

- (1) Compressor
- (2) Relay
- (3) Thermograph
- (4) Thermostat

10. Which of the following statements as regards gravitational force is not correct ?

- (1) It is a short range force
- (2) It is conservative in nature
- (3) It is the force of attraction between two masses
- (4) It is the weakest force

11. Which of the following is a scalar quantity ?

- (1) Force

(2) Energy

(3) Momentum

(4) Torque

12. In a rainy day the raindrops are falling vertically at a terminal velocity of 10 metres per second. At what angle approximately should a person hold the umbrella if he is walking horizontally at a velocity of 3 meters per second to prevent himself from being wet ?

- (1) 7°
- (2) 12°
- (3) 17°
- (4) 22°

13. Match each of the following electromagnetic waves in Column – A with their wavelength range in Column – B and select the correct answer set from the table given below :

Column – A	Column – B
(a) X-ray	(i) $< 10^{-3}$ nanometre
(b) Ultraviolet ray	(ii) 1 nanometre – 10^{-3} nanometre
(c) Infrared ray	(iii) 400 nanometres – 1 nanometre
(d) Gamma ray	(iv) 750 nanometres – 400 nanometres
	(v) 25 micrometres – 2.5 micrometres

Answers

1	(a) – ii	(b) – iv	(c) – v	(d) – i
2	(a) – ii	(b) – iii	(c) – v	(d) – i
3	(a) – v	(b) – iii	(c) – iv	(d) – i
4	(a) – ii	(b) – iii	(c) – v	(d) – iv

14. Which among the following has a higher Albedo potential than the other three ?

(1) Dense forests

(2) Ice caps

(3) Ocean surfaces

(4) Sandy deserts

15. What happens when a 100 watt bulb and 60 watt bulb are connected in a series ?

(1) Both the bulbs will glow equally

(2) Only the 60 watt bulb will glow but not the 100 watt bulb

(3) The 100 watt bulb will glow more than the 60 watt bulb

(4) The 60 watt bulb will glow more than the 100 watt bulb

16. Water can be super-cooled to a temperature of :

(1) 0°C

(2) -4°C

(3) -12°C

(4) -40°C

17. "The phenomenon in which electrically charged particles are released from or within a material

when it absorbs electromagnetic radiation" is known as :

(1) Doppler effect

(2) Modulation effect

(3) Photoelectric effect

(4) Tyndall effect

18. Which enzyme digests fats in most of the living organisms ?

(1) Lyase

(2) Lipase

(3) Ligase

(4) Isomerase

19. Which among the following mineral elements necessary for the human body is a micro-element ?

(1) Chlorine

(2) Fluorine

(3) Iodine

(4) Sodium

20. Which of the following pairs of organic acids and the substances in which they are present is incorrectly matched ?

(1) Acetic acid – Vinegar

(2) Butyric acid – Wine

(3) Citric acid – Lemon

(4) Lactic acid – Milk

21. Which of the following types of plants grows better in the arid climates ?

- (1) Heliophytes
- (2) Hydrophytes
- (3) Sciophytes
- (4) Xerophytes

22. Which among the following cell organelles is semi-permeable ?

- (1) Cell membrane
- (2) Cell wall
- (3) Nucleus
- (4) Plasma membrane

23. Which component of the plants receives stimulus for flowering ?

- (1) Branches
- (2) Leaves
- (3) Roots
- (4) Stems

24. Accumulation of uric acid crystals in the joints leading to painful movements, swelling and inflammation is known as :

- (1) Bursitis
- (2) Gout
- (3) Osteitis
- (4) Osteoporosis

25. Who has been recently sworn in as the new President of Indonesia ?

- (1) Joko Widodo
- (2) Jusuf Kalla

- (3) Maruf Amin
- (4) Susilo Yudhoyono

26. K. B. Siddaiah, who passed away recently in a car crash, was the veteran personality in which field ?

- (1) Arts
- (2) Journalism
- (3) Poetry
- (4) Politics

27. Match the names of the Padma Vibhushan awardees of 2019 in Column – A with their field of excellence in Column – B and select the correct set of answers from the table given below :

Column – A Column – B

- | | |
|------------------------------------|------------------------|
| (a) Sri Anilkumar Manibhai Naik | (i) Art-acting-theatre |
| (b) Sri Balwant Moreswar Purandare | (ii) Art-vocals-folk |
| (c) Sri Ismail Omar Guelleh | (iii) Public affairs |
| (d) Ms. Teejan Bai | (iv) Social work |
| | (v) Trade and Industry |

Answers

	(a)	(b)	(c)	(d)
1	(v)	(iv)	(iii)	(ii)
2	(v)	(i)	(iii)	(ii)
3	(iii)	(i)	(iv)	(ii)
4	(v)	(i)	(iii)	(iv)

28. Sardar Vallabhbhai Patel's birthday is being observed as :

- (1) Farmer's Day
- (2) Harmony Day
- (3) National Integration Day
- (4) National Unity Day

29. Who has become the Lieutenant Governor of Ladakh, the newly formed Union Territory ?

- (1) Shri Anil Baijal
- (2) Shri Girish Chandra Murmu .
- (3) Shri Satya Pal Malik
- (4) Shri Radha Krishna Mathur

30. With which of the following company Ministry of Electronics & Information Technology have signed a statement of intent to roll-out "Build for Digital India" ?

- (1) Google
- (2) Facebook
- (3) IBM
- (4) Microsoft

31. Who among the following players of the Indian Women's Hockey Squad scored the vital goal that has led Indian Women's team to qualify for the Tokyo Hockey Olympics ?

- (1) Lilima Minz
- (2) Navneet Kaur
- (3) Rani Rampal
- (4) Sharmila Devi

32. The standard Harappa Seal was made up of :

- (1) Bronze

(2) Gold

(3) Limestone

(4) Steatite

33. What was the staple food of the people in the Early Vedic period ?

- (1) Barley
- (2) Maize
- (3) Rice
- (4) Wheat

34. Which among the following Kings of the Gupta Dynasty has been called the 'Napoleon of India' by the historian V. A. Smith ?

- (1) Chandragupta – I
- (2) Chandragupta – II
- (3) Kumaragupta – I

(4) Samudragupta

35. Match each of the following dynasties in Column – A with corresponding Kings in Column – B and select the correct answer set from the table given below :

Column – A

Column – B

- | | |
|------------------------|-----------------|
| (a) Shishunaga Dynasty | (i) Ajatashatru |
| (b) Nanda Dynasty | (ii) Bindusara |
| (c) Mauryan Dynasty | (iii) Kalashoka |
| (d) Haryanka Dynasty | (iv) Kanishka |
| | (v) Mahapadma |

Answers

1	(a) – ii	(b) – v	(c) – iv	(d) – i
2	(a) – iii	(b) – v	(c) – ii	(d) – i
3	(a) – iii	(b) – iv	(c) – ii	(d) – i
4	(a) – iii	(b) – v	(c) – ii	(d) – iv

36. Who among the following rulers of Kalinga belongs to a dynasty different from the other three ?
- (1) Anangabhima Deva
 - (2) Anantavarman Chodaganga Deva
 - (3) Kapilendra Deva
 - (4) Narasimha Deva
37. Who among the following scholars in Jahangir's court had translated the Upanishads and Bhagavad Gita ?
- (1) Dara
 - (2) Hamid
 - (3) Iswar Das Nagar
 - (4) Mirza Md. Qazim
38. Who among the following Maratha rulers was better known as 'Shahu' ?
- (1) Rajaram
 - (2) Sambhaji
 - (3) Shivaji – II
 - (4) Shivaji – III
39. Which Rajput King had constructed the astronomical observatories at Delhi, Jaipur and Ujjain ?
- (1) Man Singh – I
 - (2) Rana Kumbha
 - (3) Rao Jodha
 - (4) Sawai Jai Singh
40. Which of the following was the first fortress constructed by the English in India ?
- (1) Fort St. George
 - (2) Fort William
 - (3) Thalassery Fort
 - (4) Mahim Fort
41. Which Governor General of the East India Company had concluded the 'Treaty of Amritsar' with Maharaja Ranjit Singh in 1809 ?
- (1) Lord Amherst
 - (2) Lord Hastings
 - (3) Lord Minto
 - (4) Lord Wellesley
42. Consequent upon which of the following wars was the 'Treaty of Srirangapatnam' signed ?
- (1) 1st Anglo-Mysore War
 - (2) 2nd Anglo-Mysore War
 - (3) 3rd Anglo-Mysore War
 - (4) 4th Anglo-Mysore War
43. Where did Rani Laxmibai breathe her last while fighting with the British Forces ?
- (1) Gwalior
 - (2) Jhansi
 - (3) Meerut
 - (4) Satara

44. Where did the Moplah Rebellion take place in 1921 ?

- (1) The Andhra Coast
- (2) The Coromandel Coast
- (3) The Konkan Coast
- (4) The Malabar Coast

45. Orissa became a separate state in 1936 during the British Rule. Who became the first Governor of the state ?

- (1) Sir Chandulal Madhavlal Trivedi
- (2) Sir George Townsend Boag
- (3) Sir John Austen Hubback
- (4) Sir William Hawthorne Lewis

46. Match each of the following mountains in Column – A with the countries in Column – B and select the correct answer set from the table given below :

Column – A **Column – B**

- | | |
|----------------------|--------------------|
| (a) The Appalachians | (i) Kazakhstan |
| (b) The Atlas | (ii) Iran |
| (c) The Pyrenees | (iii) Morocco |
| (d) The Tien Shan | (iv) Spain |
| (e) The Zagros | (v) Sudan |
| | (vi) United States |

Answers

1	(a) – v	(b) – iii	(c) – iv	(d) – i	(e) – ii
2	(a) – vi	(b) – iii	(c) – v	(d) – i	(e) – ii
3	(a) – vi	(b) – v	(c) – iv	(d) – ii	(e) – i
4	(a) – vi	(b) – iii	(c) – iv	(d) – i	(e) – ii

47. Which of the following islands is located in the Southern Atlantic Ocean ?

- (1) Azores
- (2) Falkland
- (3) Iceland
- (4) Newfoundland

48. Which city, though located quite close to the equator, experiences a cool climate ?

- (1) Fortaleza
- (2) Manaus
- (3) Nairobi
- (4) Singapore

49. Which among the following states of India is the smallest in size ?

- (1) Goa
- (2) Nagaland
- (3) Sikkim
- (4) Tripura

50. Three of the following cities are located quite close to the Tropic of Cancer. Identify the other one :

- (1) Aizawl
- (2) Bhopal
- (3) Gandhinagar
- (4) Nagpur

51. In which of the following orders will you notice the mountain passes in the Western Ghats from North to South ?

- (1) Palghat, Chorla Ghat, Bhore Ghat, Thal Ghat
- (2) Thal Ghat, Chorla Ghat, Bhore Ghat, Palghat
- (3) Thal Ghat, Bhore Ghat, Chorla Ghat, Palghat
- (4) Thal Ghat, Bhore Ghat, Palghat, Chorla Ghat

52. Which of the following pairs of rivers and associated waterfalls is incorrectly matched ?
- (1) The Chalakudy – Athirapilly
 - (2) The Mandovi – Dudhsagar
 - (3) The Sharavathi – Gersoppa
 - (4) The Tungabhadra – Hogenakkal
53. Which of the following lakes is situated in the city of Udaipur in Rajasthan ?
- (1) Anasagar
 - (2) Pichola
 - (3) Rajsamand
 - (4) Siliserh
54. Which of the following river valleys in India is well known for its ravines ?
- (1) The Betwa
 - (2) The Chambal
 - (3) The Luni
 - (4) The Mahi
55. Which state is the largest producer of pearl millet (bajra) in India ?
- (1) Gujarat
 - (2) Madhya Pradesh
 - (3) Rajasthan
 - (4) Uttar Pradesh
56. Which of the following barrages in Odisha is under construction at present ?
- (1) Anandapur on the Baitarani
 - (2) Bidyadharpur on the Salandi
 - (3) Mangalpur on the Hati
 - (4) Samal on the Brahmani
57. To which type of forests in Odisha does the Chandka Forest belong ?
- (1) Littoral and Swamp forests
 - (2) Tropical dry deciduous forests
 - (3) Tropical moist deciduous forests
 - (4) Tropical semi-evergreen forests
58. Which is the largest completed hydro-electricity project in India ?
- (1) Koyna
 - (2) Nathpa Jhakri
 - (3) Shrisailam
 - (4) Tehri
59. Three of the following mining belts in India produce copper. Identify the other belt :
- (1) Khetri, Rajasthan
 - (2) Malanjkhand, Madhya Pradesh
 - (3) Nellore, Andhra Pradesh
 - (4) Singhbhum, Jharkhand
60. Which of the following is the largest tribal group in India ?
- (1) Bhils
 - (2) Bodos
 - (3) Gonds
 - (4) Santhals
61. Who among the following was a famous vocalist of Hindustani Classical Tradition ?
- (1) Alla Rakha
 - (2) Pandit Bhimsen Joshi
 - (3) Pandit Ravi Shankar
 - (4) Ustad Bismillah Khan

62. Which of the following pairs of Buddhist Stupas and their locations is correctly matched ?

- (1) Anathapindika – Sarnath
 (2) Animeshlocha – Bodh Gaya
 (3) Dharmekh – Kushinagar
 (4) Rambhar – Shravasti

63. Which of the following is the first Odia Magazine published ?

- (1) Bodha Dayini
 (2) Indradhanu
 (3) Prabodh Chandrika
 (4) Utkal Dipika

64. Who is the author of the famous novel 'Ganadevta' ?

- (1) Bankim Chandra Chatterjee
 (2) Sarat Chandra Chatterjee
 (3) Sunil Gangopadhyay
 (4) Tarashankar Bandopadhyay

65. Match each of the books in Column – A with their authors in Column – B and select the correct answer set from the table given below :

Column – A **Column – B**

- | | |
|-----------------------|------------------------|
| (a) Confessions | (i) Adam Smith |
| (b) Gathering Storm | (ii) Adolph Hitler |
| (c) Mein Kamph | (iii) J. J. Rousseau |
| (d) Mother | (iv) Karl Marx |
| (e) Wealth of Nations | (v) Maxim Gorki |
| | (vi) Winston Churchill |

Answers

1	(a) – iii	(b) – vi	(c) – ii	(d) – iv	(e) – v
2	(a) – iii	(b) – vi	(c) – ii	(d) – v	(e) – i
3	(a) – iii	(b) – vi	(c) – iv	(d) – v	(e) – i
4	(a) – iv	(b) – iii	(c) – ii	(d) – v	(e) – i

66. Which stone has been used in large scale for external carvings in the Konark Temple ?

- (1) Basalt
 (2) Chlorite
 (3) Khondalite
 (4) Laterite

67. Saint Thiruvalluvar's tallest statue is located in :

- (1) Kaladi
 (2) Kanyakumari
 (3) Rameswaram
 (4) Thiruvananthapuram

68. Which of the following is a traditional folk dance form of Maharashtra ?

- (1) Lavani
 (2) Garba
 (3) Ghoomer
 (4) Rout Nacha

69. Which Article of the Indian Constitution emphasizes upon 'abolition of untouchability' ?

- (1) Article 15
 (2) Article 16
 (3) Article 17
 (4) Article 18

70. Which of the following features of the Indian Constitution has been borrowed from a country different from the other three ?
- (1) Fundamental Rights
 - (2) President – the Nominal Head
 - (3) Provision of States
 - (4) Supreme Court
71. The overseas citizens of India enjoy parity with the non-resident Indians in respect of three of the following fields. Which is the other field ?
- (1) Acquisition of agricultural property
 - (2) Field of Education
 - (3) Financial entrepreneurship
 - (4) Economic activities
72. Which was the first state to be recognised on linguistic basis as per the recommendations of the State Re-organisation Commission headed by Shri Fazal Ali ?
- (1) Andhra Pradesh
 - (2) Gujarat
 - (3) Karnataka
 - (4) Kerala
73. Which of the following jurisdictions of the Supreme Court refers to the Article 137 of the Indian Constitution ?
- (1) Advisory Jurisdiction
 - (2) Appellate Jurisdiction
 - (3) Revisory Jurisdiction
 - (4) Writ Jurisdiction
74. Recently India has opted out of RCEP. What is RCEP ?
- (1) Regional Commerce and Entrepreneurial Partnership
 - (2) Regional Comprehensive Economic Pact
 - (3) Regional Comprehensive Economic Partnership
 - (4) Regional Cooperation and Economic Partnership
75. The primary objective of which initiative is to attract investments from across the globe and strengthen India's manufacturing sector ?
- (1) INSPIRE Programme
 - (2) Jan Dhan Yojana
 - (3) Make in India
 - (4) MUDRA Yojana
76. Which of the following is not an activity carried out by the NAFED ?
- (1) Import of food-grains for buffer-stocking and public distribution
 - (2) Marketing of poultry and eggs at the national level
 - (3) Movement of surplus goods from surplus areas to scarcity areas
 - (4) Promotion of inter-state and export trade of farm produce
77. In the production of which of the following commodities is India self-sufficient ?
- (1) Edible oil
 - (2) Fruits
 - (3) Milk
 - (4) Pulses

78. In which of the following activities in India is the percentage share of the cooperative sector the highest ?

- (1) Distribution of fertilizer
- (2) Handlooms
- (3) Procurement of rice
- (4) Sugar production

79. With which country has India signed the 'Kartarpur Corridor Agreement' of late ?

- (1) Afghanistan
- (2) China
- (3) Myanmar
- (4) Pakistan

80. How many MoUs were signed between India and Germany during the recent visit of the German Chancellor, Angela Merkel to India ?

- (1) Five
- (2) Nine
- (3) Seventeen
- (4) Twenty two

81. Currently which of the following products has been a major issue between India and Malaysia ?

- (1) Palm oil
- (2) Rice
- (3) Rubber
- (4) Spices

82. India has exclusive rights over which of the following groups of rivers as per the Indus Water Treaty (IWT) ?

- (1) The Beas, the Chenab and the Jhelum

(2) The Beas, the Chenab and the Ravi

(3) The Beas, the Ravi and the Sutlej

(4) The Chenab, the Jhelum and the Sutlej

83. Which number will replace the "?" mark in the following series ?

(?), 19, 37, 61, 91, 127, 169.

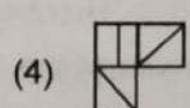
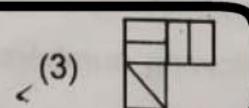
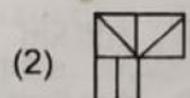
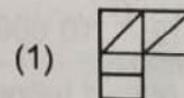
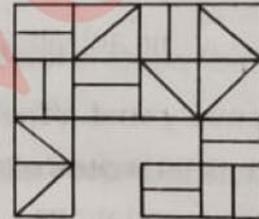
(1) 7

(2) 11

(3) 13

(4) 17

84. Which figure from among the given options fits the best within the gap in the following figure ?



85. What is the smallest number of players who can be placed in the given formation ?

Formation : Two players in front of a player, two players behind a player and one player between two players.

(1) 3

(2) 5

(3) 7

(4) 9

86. Five of the batsmen of a team (A, B, C, D and E) scored at an average of 36 runs in a cricket match. While B and C together scored 107 runs, B's score was equal to the scores of D and E combined. If D's score was 5 more than E and E's score is 8 less than A, then how much did C score ?

- (1) 20 (2) 28
(3) 45 (4) 62 ✓

87. A child wrote 1 to 366 serially in his note book. What is the total number of digits he had written ?

- (1) 366 (2) 732
(3) 990 (4) 1098

88. A 1 mm thick paper is folded into half of its size every time. What will be its approximate thickness after 50 such folding ?

- (1) 100 km (2) 10,000 km
(3) 1 million km (4) 1 billion km

89. Which of the following numbers is divisible by 42 ?

- (1) 248769
(2) 264852 ✓
(3) 266748 ✓
(4) 267848 ✓

90. On the Republic Day some chocolates were brought to distribute among 125 children in a school such

that each one gets equal number of chocolates. However 25 children were absent on the occasion for which each child got 2 chocolates extra. How many chocolates were brought ?

- (1) 250 (2) 500
(3) 750 (4) 1000

91. The sum total of the ages of three brothers is 44. The eldest is 4 years older than the second, while the second's age is twice of the age of the youngest. What is the age of the second brother ?

- (1) 8 (2) 14
(3) 16 ✓ (4) 20

92. Which among the following is the largest of the four digit numbers that is divisible by 15, 25, 40 and 75 ?

- (1) 9400 (2) 9600 ✓
(3) 9800 (4) 9900

93. Given the ratios – A : B = 3 : 5 and B : C = 7 : 9, what will be the ratio of A : B : C ?

- (1) 3 : 5 : 9
(2) 7 : 9 : 15
(3) 9 : 15 : 21
(4) 21 : 35 : 45 ✓

A : B : C
3 : 5 : 9
7 : 9 : 15
21 : 35 : 45

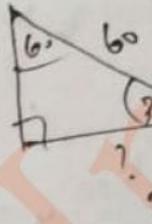
94. Amar, Mithun and Satya started a business by investing Rs. 54,000, Rs. 81,000 and Rs. 75,000 respectively. If at the end of the year the total profit was distributed and Mithun's share was Rs. 27,000, then what was the total profit?

- (1) Rs. 60,000
- (2) Rs. 70,000
- (3) Rs. 80,000
- (4) Rs. 90,000

Handwritten calculations for Q94:
 Amar: 54,000
 Mithun: 81,000
 Satya: 75,000
 Total Investment: 210,000
 Mithun's share: 27,000
 Ratio: 54:81:75 = 6:9:9 = 2:3:3
 Total profit = $\frac{27,000}{3} \times (2+3+3) = 9,000 \times 8 = 72,000$

98. The angle of elevation of the top of a 60 metres tall tower from a point X on a level ground is 30° . What is the approximate distance between the point X and the base of the tower?

- (1) 85 m
- (2) 87 m
- (3) 104 m
- (4) 121 m



95. Evaluate:

$$\frac{\sqrt{0.01} + \sqrt{0.0064}}{0.01 \times 0.3}$$

- (1) 1
- (2) 10
- (3) 100
- (4) 1000

Handwritten calculation for Q95:
 $\frac{\sqrt{0.01} + \sqrt{0.0064}}{0.01 \times 0.3} = \frac{0.1 + 0.08}{0.003} = \frac{0.18}{0.003} = 60$

96. The coordinates of two points A and B are $(x, -1)$ and $(3, 2)$ respectively and the distance between them is 5. What is the value of x?

- (1) -7 or -1
- (2) -7 or 1
- (3) 7 or -1
- (4) 7 or 1

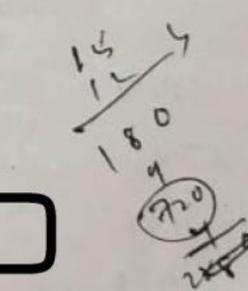
Handwritten calculation for Q96:
 $\sqrt{(x-3)^2 + (-1-2)^2} = 5$
 $(x-3)^2 + 9 = 25$
 $(x-3)^2 = 16$
 $x-3 = \pm 4$
 $x = 3 \pm 4$
 $x = 7 \text{ or } -1$

97. A steamer moves at a speed of 15 km/hour in still water. If it moves 30 km downstream in a river and returns back to the starting point in a total time of 4 hours and 30 minutes, then what is the speed of the stream?

- (1) 4 km/hour
- (2) 5 km/hour
- (3) 6 km/hour
- (4) 8 km/hour

100. A fixed deposit of Rs. 50,000 in a bank earns an interest of Rs. 7,245 @ 7% compounded annually. What is the time period of the deposit?

- (1) 2 years
- (2) $2\frac{1}{2}$ years
- (3) 3 years
- (4) $3\frac{1}{2}$ years



Handwritten calculation for Q100:
 $50000(1.07)^n = 50000 + 7245$
 $(1.07)^n = \frac{57245}{50000} = 1.1449$
 $n = 2$