

PARTICULARS TO BE FILLED IN BY THE CANDIDATE		BM70SB	
Name of the Candidate	Muhammed Subaib	Question Booklet Number	00197
Roll Number	6091357		
Name of the Centre	Z.H. Engineering	Paper Code	08
Centre Code	113		
Date of the Test	7/05/2017	Question Paper Series	A
Signature of the Candidate	<i>Subaib</i>		

INSTRUCTIONS

- Complete all entries on the cover page and put your signature in the space provided.
- Use only Ball point pen (black/blue) for making entries in the Question Booklet and the OMR Answer Sheet.
- Candidates should also read carefully the instructions printed on the Admission Test Card and the OMR Answer Sheet before attempting to answer the questions.
- **Negative marking on OMR based evaluation only** : There is a negative marking of 0.25 marks for every incorrect answer.

1. The Question Booklet contains **32** printed pages (including cover page) having **200** questions (of 1 mark each). Count the number of pages and questions before attempting the questions. Discrepancy, if any, must immediately be brought to the notice of the Invigilator. All questions are compulsory.
2. The Test Duration is of **three hours** and shall be reckoned from the time of distribution of the Question Booklets.
3. Blank space in the Question Booklet may be used for rough work.
4. Each question has four alternative options. Select only one option, which you consider as the most appropriate. Shade the relevant circle against the corresponding question number on the OMR Answer Sheet. Selecting more than one option for a question, even if one of the selected option is correct, would result in its being treated as an incorrect answer.
5. **The candidate is required to separate the original OMR Answer Sheet and its carbonless copy at the perforation carefully after the Admission Test. He/She shall hand over the original OMR Answer Sheet to the Invigilator before leaving his/her seat and take with him/her the carbonless copy of the OMR Answer Sheet and the Question Booklet.**
6. **Failure to hand over the original OMR Answer Sheet will lead to cancellation of the candidature.**

SEAL

1. In which area the public sector is most dominant in India ?
 - (a) Commercial banking
 - (b) Steel production
 - (c) Transport
 - (d) Term lending financial institutions
2. Which of the following is not a part of machinery meant for settling industrial disputes ?
 - (a) Conciliation Officer
 - (b) Board of Conciliation
 - (c) Works Committee
 - (d) Wages Courts
3. Which one of the following is a fixed cost to a manufacturing firm in the short run ?
 - (a) Insurance of building
 - (b) Overtime payment to workers
 - (c) Cost of raw material
 - (d) Cost of energy
4. The concept of "NAVRATNAS" evolved in the Union Budget of which year ?
 - (a) 1997-98
 - (b) 1999-2000
 - (c) 1990-91
 - (d) 1995-96
5. Stand Up India scheme is associated with
 - (a) All small entrepreneurs
 - (b) SC/ST and women entrepreneurs
 - (c) Only women entrepreneurs
 - (d) Only entrepreneurs in rural areas
6. Under which of the following circumstances "capital gain" arises ?
 - (a) When there is increase in the sales of a product
 - (b) When you purchase a painting and there is an increase in its value due to increase in its popularity
 - (c) When there is reduction in cost of the product and profit increases
 - (d) Both (b) and (c) above
7. International Development Association, a leading agency is administered by the
 - (a) International Bank for Reconstruction and Development
 - (b) International Fund for Agricultural Development
 - (c) UNDP
 - (d) UNIDO

8. NIKKEI is the
- (a) Share Price Index of Tokyo Share Market
 - (b) Name of Japanese Central Bank
 - (c) Japanese name of country's Planning Commission
 - (d) Foreign Exchange Market of Japan
9. Excise duties are taxes on
- (a) Sales of commodities
 - (b) Import of commodities
 - (c) Export of commodities
 - (d) Production of commodities
10. Which of the following commission set up by the President of India decides the distribution of tax income between central and state governments ?
- (a) Niti Ayog
 - (b) Finance Commission
 - (c) Administrative Reform Commission
 - (d) Central Law Commission
11. Most important source of capital formation in India has been
- (a) Household savings
 - (b) Public sector savings
 - (c) Government revenue surplus
 - (d) Corporate savings
12. As we all know that the Ministry of Finance every year prepares the Union Budget and presents it to the Parliament. Which of the following is / are the elements of Union Budget ?
- 1. Estimates of revenue and capital receipt
 - 2. Ways and means to raise the revenue
 - 3. Estimates of expenditure
- Select the correct answer using the codes given below
- (a) Only 1
 - (b) Only 2
 - (c) Only 3
 - (d) All of these

13. Special Drawing Rights relate to
- (a) The World Bank
 - (b) The Reserve Bank of India
 - (c) The World Trade Organisation
 - (d) The International Monetary Fund
14. A country is said to be in a debt trap if
- (a) It has to borrow to make interest payments on outstanding loans
 - (b) It has to borrow to make interest payments on standing loans
 - (c) It has been refused loans or aid by creditors abroad
 - (d) The World Bank charges a very heavy rate of interest on outstanding as well as new loans
15. The lowering of bank rate by RBI leads to
- (a) More liquidity in the market
 - (b) Less liquidity in the market
 - (c) No change in liquidity in the market
 - (d) Mobilisation of more deposits by commercial banks
16. Consider the following statements.
1. GDP is a better measure of National Income than GNP
 2. GNP is always higher than the GDP
- Which of the statements given above is/are correct ?
- (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
17. Market imperfection in the country are reflected in
- (a) Price rigidity
 - (b) Factor immobility
 - (c) Lack of specialization
 - (d) All of the above

18. Consider the following statements.

- I. Dadabhai Naoroji made the first attempt to calculate the National Income of India.
- II. The first scientific method to calculate National Income of India was made by Prof. VKRV Rao.

Which of the statements given above is / are correct ?

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Neither I nor II

19. The largest share of gross domestic products in India come from

- (a) Agriculture and allied sector
- (b) Manufacturing and construction
- (c) Defense and public administration
- (d) Service sector

20. Which of the following is one of the indicators of Human Development Index (HDI) ?

- (a) Availability of perennial source of water for irrigation
- (b) Total area of agricultural land with a family
- (c) Life expectancy at birth
- (d) Total cost of agricultural land with a family

21. Green Index is a measure of

- (a) Nation's wealth according to GNP per capita
- (b) Nation's wealth according to GDP per capita
- (c) Nation's wealth according to provision of control on Greenhouse gases
- (d) Nation's wealth in terms of coverage of forest area

22. S. Tendulkar Committee was set up to review the

- (a) Poverty line
- (b) Railway gauge conversion
- (c) Ganga cleaning endeavour
- (d) Indian planning system

23. Due to its high population in the age group of 15-64 years, India is regarded as
- (a) the country with demographic dividend
 - (b) the country with high total population
 - (c) the country with high population diversity
 - (d) the country paying more corporate-dividend
24. Which of the following is a subsidiary of RBI ?
- (a) SIDBI
 - (b) NABARD
 - (c) National Housing Bank
 - (d) All the above
25. 'SAPTA' is related to
- (a) Education
 - (b) Trade
 - (c) Security
 - (d) Environment
26. 'Aam Admi Bima Yojana' is an insurance scheme for rural landless households introduced by
- (a) National Insurance Company
 - (b) Life Insurance Corporation of India
 - (c) UTI
 - (d) ICICI Life Prudential Company
27. 'Digital India' programme was launched on
- (a) June 28, 2015
 - (b) July 1, 2015
 - (c) July 7, 2015
 - (d) July 10, 2015
28. IRDA is associated with
- (a) Railways
 - (b) Insurance sector
 - (c) Telecommunication
 - (d) Banking
29. IMF is the result of
- (a) Hawana Conference
 - (b) Rome Conference
 - (c) Brettonwood Conference
 - (d) Geneva Conference

30. Which of the following regulates the working of share market in India ?
(a) Competition Commission of India
(b) FERA
(c) BIFR
(d) SEBI
31. The institution to regulate the international trade is
(a) IMF (b) World Bank
(c) WTO (d) IFC
32. RBI was nationalised in
(a) 1959 (b) 1947
(c) 1945 (d) 1949
33. The largest source of national income in India is
(a) Service sector (b) Agriculture sector
(c) Industrial sector (d) Trade sector
34. SEBI was established in
(a) 1993 (b) 1992
(c) 1988 (d) 1990
35. VAT is imposed
(a) Directly on consumer
(b) On final stage of production
(c) On first stage of production
(d) On all stages between production and final sale
36. Altamas Kabir, the former Chief Justice of India (CJI) occupied this position for nine months during
(a) 2012-13 (b) 2013-14
(c) 2014-15 (d) 2015-16
37. Who is the author of the book "Feroze : The Forgotten Gandhi" ?
(a) John Nicolsen (b) Shashi Tharoor
(c) Bertil Falk (d) William Dalrymple

38. Which country has launched nationwide military operation 'Radd-ul-Fasaad' to eliminate terrorists ?
- (a) India (b) Pakistan
(c) Bangladesh (d) Afghanistan
39. The nationwide "Swachh Shakti Saptah" has been launched from which city ?
- (a) Gandhinagar (b) Gurugram
(c) Ahmedabad (d) Noida
40. Raymond Kopa, the football legend has recently passed away. He hails from which country ?
- (a) Spain (b) India
(c) Germany (d) France
41. Trade related aspects of Intellectual Property Rights (TRIPS) Agreement is administered by
- (a) WTO (b) UNO
(c) UNCTAD (d) WB
42. Who has been chosen for the 2017 National Yash Chopra Memorial Award ?
- (a) Aamir Khan (b) Saif Ali Khan
(c) Shah Rukh Khan (d) Salman Khan
43. World's longest train tunnel is located in which country ?
- (a) Switzerland (b) Italy
(c) Japan (d) UK
44. T V Parasuram, who passed away recently, was related to which field ?
- (a) Science (b) Film industry
(c) Journalism (d) Academics
45. Which country is hosting the 2017 Cobra Gold joint military exercise ?
- (a) Thailand (b) Japan
(c) United States (d) China

46. Barren Island is located in which state / union territory ?
(a) Gujarat (b) Andaman and Nicobar Islands
(c) Lakshadweep (d) Assam
47. The transaction cost of trading of financial instruments in centralized market is classified as
(a) flexible costs (b) low transaction costs
(c) high transaction costs (d) constant costs
48. Tarapore Committee submitted its report on "Full Convertibility on Rupee" on
(a) Current account
(b) Capital account
(c) Both in current as well as in capital account
(d) Special Drawing Rights (SDRs)
49. 'Pradhanmantri Bharat Jodo Pariyojna' is related to
(a) Communication (b) Social integration
(c) Linking of rivers (d) Development of highways
50. 'Apna Khet, Apna Kaam' (i.e., Own Field, Own Work) is a new scheme under MNREGA has been initiated in the state
(a) Punjab (b) Gujarat
(c) Rajasthan (d) Madhya Pradesh

Read the passage given below and answer the Questions 51-55

For the most part, American institutions of higher education managed to expand their resources and facilities to absorb the rapidly increasing numbers of students seeking to enroll in the 1960s. Students who could not qualify for the most selective four-year institutions were admitted to less selective four-year institutions or to two-year colleges. Only toward the end of the decade were there signs of serious stresses and strains resulting from financial stringency in both public and private institutions.

The outlook for smooth absorption of the increased numbers of students who will be seeking higher education in the 1970s is at present very uncertain. Campus unrest, which is leading some state legislatures to "punish" public institutions of higher education by withholding funds and which is causing some alumni and other private

donors to hold back on gifts to colleges and universities, may abate somewhat if we withdraw from the Indochina war, but most sophisticated observers do not expect unrest to disappear on campuses. Cutbacks in federal government support of higher education may prove to be temporary if a decline in military expenditures facilitates increased appropriations for education and other social services. But a more persistent problem is likely to be the fiscal stringency faced by state and local governments (with the latter representing a significant source of financing of two-year colleges).

51. According to the passage, during the 1960s, American institutions of higher education
- (a) failed to absorb all applicants
 - (b) were financially strained
 - (c) expanded their resources and facilities
 - (d) worsened academically
52. According to the passage, American institutions faced problems towards the end of 1960s because
- (a) Students could not qualify for selective four-year institutions
 - (b) Students were admitted to two-year colleges
 - (c) Institutions faced fund crunch
 - (d) Students could not pay fees
53. The author states that campus unrest has caused
- (a) a decline in enrollment
 - (b) disruption of classes
 - (c) a decline in gift-giving to colleges
 - (d) student support for the Indochina war
54. According to the passage American withdrawal from the Indochina war will cause
- (a) Campus unrest to disappear permanently
 - (b) Alumni and private donors will donate more
 - (c) Decline in military expenditure and facilitate increased funding for education
 - (d) Local government will spend more on education

55. According to the passage a significant portion of funding for two year colleges come from
- (a) Donors (b) Alumni
(c) Students themselves (d) State and local governments

Choose the correct option to fill in the blanks. (Q. 56-60)

56. Don't you think it _____ time we _____ typing the report.
(a) has been / have started (b) is / started
(c) will be / are starting (d) was / started
57. When I _____ into him on the street, he said he _____ abroad for business that evening.
(a) ran / was going (b) had run / would go
(c) have run / will be going (d) ran / will go
58. No books _____ out from this library unless you _____ the borrower's card.
(a) must be taken / are having (b) might take / have had
(c) can be taken / have (d) should be taken / don't have
59. Although the crime scene _____ thoroughly, nothing substantial _____.
(a) is searching / will be found (b) has been searched / has been finding
(c) was searched / was found (d) had been searched / were found
60. Ismail said that he _____ us a visit at around 9 tonight.
(a) can pay (b) will pay
(c) would pay (d) could have paid

Arrange to produce correct sentence. (Q. 61-64)

61. P : supported by soft term loans
Q : to supply imported equipment worth Rs. 5 crore
R : the Indian Government has offered
S : with a very low rate of interest
- (a) SRQP (b) PSRQ
(c) RQPS (d) QPSR

62. P : accidents are still bound to happen
 Q : occasionally
 R : though
 S : despite everyone's best efforts
 (a) SPRQ (b) RSPQ
 (c) SRPQ (d) PQRS
63. P : will normally be granted
 Q : candidates should note
 R : that no request for
 S : change of centre
 (a) PSQR (b) SPQR
 (c) QRSP (d) RSPQ
64. P : and scale of operations
 Q : public sector companies take a peculiar pride
 R : without talking of their ability
 S : in the size of their investment
 (a) SQRP (b) PRQS
 (c) QSPR (d) SPRQ

Choose the correct option to fill in the blanks. (Q. 65-67)

65. This legend has been _____ from father to son.
 (a) handed in (b) handed out
 (c) handed over (d) handed down
66. He said that there was no going back because his decision was _____.
 (a) peremptory (b) premeditated
 (c) parsimonious (d) palatable
67. Many young men were _____ at street corners for coffee bar to open.
 (a) hanging about (b) hanging on
 (c) hanging together (d) hanging in

Find the underlined part which has an error. (Q. 68-69)

68. show began when we arrived in the hall.
A B C D

- (a) A (b) B
(c) C (d) D

69. In ancient times many people believed that the earth is motionless.
A B C D

- (a) A (b) B
(c) C (d) D

Find out the error in the following sentences. (Q. 70-73)

70. Modern film techniques are for superior than that employed in the past.
A B C D

- (a) A (b) B
(c) C (d) D

71. Manures are used primarily to enrich the soil and increasing yield.
A B C D

- (a) A (b) B
(c) C (d) D

72. When the scorpion gets through to lay its eggs, it dies.
A B C D

- (a) A (b) B
(c) C (d) D

73. The clothes were neatly hanged on the cloth line.
A B C D

- (a) A (b) B
(c) C (d) D

74. Antonym of **quiescent**

- (a) Lackadaisical (b) Active
(c) Dull (d) Prescient

75. Antonym of **impartial**
 (a) hostile (b) biased
 (c) dislike (d) worried
76. Choose the word or phrase which is nearest in the meaning to the key word **sporadic**
 (a) epidemic (b) whirling
 (c) occasional (d) stagnant
77. **Bellicose** means
 (a) cautious (b) shine
 (c) rustic (d) warlike
78. **Achilles heels** refers to
 (a) strength (b) weakness
 (c) passion (d) strong legs
79. A person who is hard to please
 (a) Sadist (b) Robust
 (c) Fastidious (d) Dissenter
80. A person of wide knowledge and learning is called
 (a) Polyglot (b) Polymath
 (c) Polymorph (d) Polyandrian
81. Choose the correct option that best expresses the meaning of the underlined phrase.
 The new economic policy is likely to run into rough weathers.
 (a) create problems (b) encounter difficulties
 (c) confuse matters (d) make things difficult
82. Select from the options the word / phrase that is nearest in meaning to the key word given in capital letters.
RESCIND
 (a) to return (b) to revert
 (c) to cancel (d) to remind

83. Choose the correct meaning of the underlined idiom given in the sentence.

In modern democratic societies lynch law seems to have become a common feature in almost all the spheres of life.

- (a) law of the parliament (b) law of the constitution
(c) law of the mob (d) law of the underworld

Determine the relationship between pair of words in the question and select from the options the pair of words having a relationship similar to the first pair. (Q. 84-86)

84. Scholar : entrepreneur ::

- (a) Books : superstition (b) Learning : studying
(c) University : laboratory (d) Knowledge : profits

85. Notable : notorious ::

- (a) generous : benevolent (b) heinous : atrocious
(c) nefarious : secret (d) thrifty : miserly

86. Sugar : saccharin ::

- (a) candy : cake (b) cane : stalk
(c) spice : pepper (d) butter : margarine

87. Pick the odd one out from the options.

- (a) Haughty (b) Reticent
(c) Sociable (d) Aloof

88. A person coming to a foreign land to settle there

- (a) immigrant (b) emigrant
(c) traveller (d) visitor

Choose the pair of appropriate prepositions to fill in the blanks. (Q. 89-90)

89. She made a point _____ coming late so that everyone would look _____ her.

- (a) of, at (b) at, of
(c) for, on (d) on, for

90. We are _____ peace _____ them.

- (a) for, by (b) in, for
(c) at, with (d) in, by

91. If the first and the second letters of the word NOVEMBER are interchanged, similarly, if the third and the fourth, the fifth and the sixth and so on, then which of the following would be the fourth letter to the left of R in the new arrangement ?
- (a) E (b) M
(c) V (d) B
92. Looking at a portrait, a man said, "I have no brothers and sisters, but this man's father is my father's son." At whose portrait was the man looking at ?
- (a) His son (b) His nephew
(c) His father (d) His own
93. If the numbers indicating hours on the dial of a clock are replaced clockwise by letters from the English alphabets starting from 'B' replacing '1', which letter would replace '8' ?
- (a) F (b) H
(c) G (d) I
94. How many 8's are there in the following series of numbers each of which is immediately preceded by an EVEN number but is not immediately followed by an ODD number ?
- 7 8 2 8 9 3 8 5 2 3 8 4 7 8 1 9 8 8 8 5
- (a) 2 (b) 3
(c) 1 (d) 5

Instruction for Q. (95-99) : Use the information given in the statements below to answer the questions.

- Eight people are sitting round a circular table facing the centre.
 - F is facing in between the North East and North West direction.
 - D is in middle of C and E and is facing H.
 - F is to the just left of E and to just right of G.
 - The difference between A and C is equal to the difference between B and D.
95. If D is made to sit facing North, then in which direction will the third person to his right will be facing.
- (a) North East (b) South West
(c) South East (d) North West

ed, 96. A and F have the same relation, as G has with

- en (a) E (b) C
w (c) D (d) H

97. If person facing West and North interchange their positions, who will be facing West and in which direction, will the person just to his left face

- 's (a) F, North, West (b) B, North East
(c) B, North West (d) None of these

98. If G = D then E =

- oy (a) A (b) F
er (c) B (d) H

99. If all the people shift one place left (clockwise), then in which direction will G be facing ?

- is (a) West (b) South
d (c) North (d) East

100. If South East becomes North and North East becomes West and so on. What will West become ?

- (a) North East (b) North West
(c) South East (d) South

101. In a certain code "PAGE" is written as "GAEP" and "ROCKET" is written as "KCTREO". How is "HEAVENLY" written in that code ?

- (a) EVYLEHAN (b) HVYHLENA
(c) EVNALEHY (d) EVYHNALE

102. Choose the figure which is different

A	E	Z	N
(1)	(2)	(3)	(4)

- (a) 1 (b) 2
(c) 3 (d) 4

103. Yard is to inch as quart is to
- (a) gallon (b) ounce
(c) milk (d) liquid
104. If LBAEHC is the code for BLEACH, then which of the following is coded NBOLZKMH?
- (a) BNLOKZHM (b) MANKYJLJ
(c) LOBNHMKZ (d) OBNKZLHM
105. Find the next term
EJO, TYD, INS, XCH, __?
- (a) NRW (b) MRW
(c) MSX (d) NSX
106. If S is the brother of N, the sister of N is M, the brother of P is J and the daughter of S is P then who is the uncle of J?
- (a) J (b) S
(c) P (d) M
107. Choose the missing term out of the given alternatives
2Z5, 7Y7, 14X9, 23W11, 34V13?
- (a) 27U27 (b) 47U15
(c) 45U15 (d) 47U14
108. If code for "NAME" is 13 26 14 22", Then what will be the code for "TEAM"?
- (a) 7 22 26 14 (b) 14 26 22 7
(c) 72 62 22 14 (d) 7 14 26 22
109. "England" is related to "Atlantic Ocean" in the same way "Greenland" is related to
- (a) Pacific Ocean (b) Atlantic Ocean
(c) Arctic Ocean (d) Antarctic Ocean

110. Look at the number series
200, 173, 146, 119, ?, 65
- (a) 118 (b) 117
(c) 92 (d) 116
111. Rahul's mother is the only daughter of Monika's father. How is Monika's husband related to Rahul ?
- (a) Uncle (b) Father
(c) Grandfather (d) Brother
112. "Clamour" is to "noise" in the same way as "silence" is to
- (a) Hush (b) Mild
(c) Still (d) Accord
113. A boy walked 6 km due east from home and then turned right and walked 8 km. He again turned right and walked 12 km. How far and in which direction is he now from his home ?
- (a) 18 km South (b) 10 km South-West
(c) 8 km North-West (d) 6 km East
114. 'A' can do a piece of work in 7 days of 9 hours each and 'B' can do it in 6 days of 7 hours each. How long will they take to do it, working together $8\frac{2}{5}$ hours a day ?
- (a) 3 days (b) 6 days
(c) 9 days (d) 12 days
115. A number is decreased by 10% and then increased by 10%. The number so obtained is 10 less than the original number. What was the original number ?
- (a) 1000 (b) 1050
(c) 1500 (d) 2000
116. Three-fourth of a number is 60 more than its one-third. The number is
- (a) 84 (b) 108
(c) 144 (d) 164

117. If a number is decreased by 4 and divided by 6, the result is 8. What would be the result if 2 is subtracted from the number and then it is divided by 5 ?
- (a) $9\frac{2}{3}$ (b) 10
(c) $10\frac{1}{5}$ (d) $11\frac{1}{5}$
118. A girl is facing North. She turns 180° in the anti-clockwise direction and then 225° in the clockwise direction. Which direction is she facing now ?
- (a) West (b) North-East
(c) South-West (d) East
119. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is
- (a) 20 (b) 23
(c) 169 (d) None of these
120. Find the number that is missing in the series : 2, 7, 17, 32, 52, 77, ____
- (a) 107 (b) 91
(c) 101 (d) 92
121. Find the probability of drawing a diamond card in each of the two consecutive draws from a well shuffled pack of cards, if the card drawn is not replaced after the first draw
- (a) $\frac{1}{4}$ (b) $\frac{4}{17}$
(c) $\frac{1}{16}$ (d) $\frac{1}{17}$
122. If $P(\text{not } A) = 0.7$, $P(B) = 0.7$, and $P(B/A) = 0.5$. Find $P(A \cup B)$
- (a) 0.85 (b) 0.72
(c) 0.65 (d) 0.62
123. In how many ways 2 students can be chosen from a class of 20 students ?
- (a) 190 (b) 180
(c) 170 (d) 160

124. In two successive throws of a pair of dice, determine the probability of getting a total of 8 each time

(a) $\frac{5}{36}$

(b) $\frac{25}{36}$

(c) $\frac{25}{1296}$

(d) $\frac{5}{1296}$

125. Which of the following can be calculated from a cumulative frequency curve ?

(a) Geometric mean

(b) Harmonic mean

(c) Median

(d) Mode

126. If $P(\text{not } A) = 0.7$, $P(B) = 0.7$, and $P(B/A) = 0.5$, find $P(A/B)$

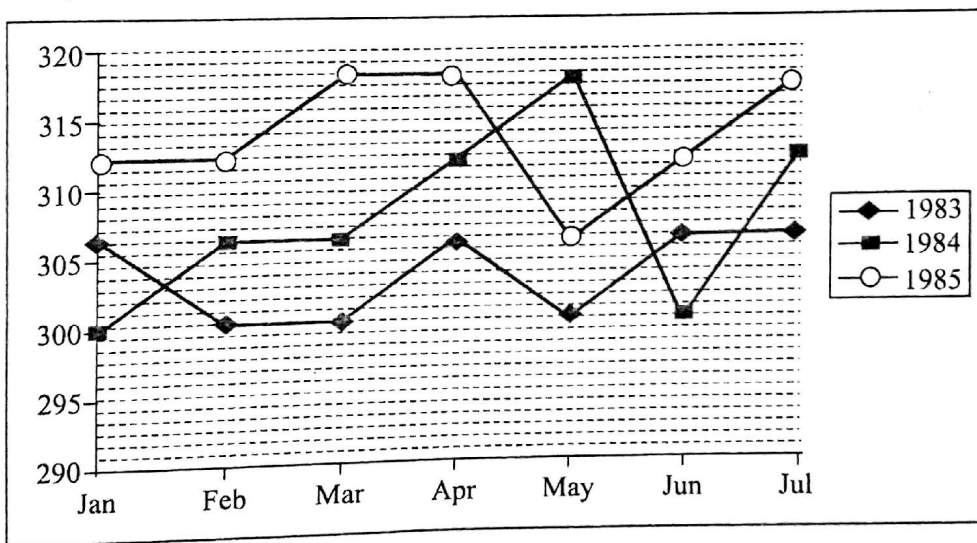
(a) $\frac{7}{15}$

(b) $\frac{1}{3}$

(c) $\frac{3}{10}$

(d) $\frac{3}{14}$

Instruction for Q. (127-130) : Interpret the answer of the questions from the data presented in the graph showing monthly expenditure of a firm from January to July during the years 1983, 1984, 1985.



	Jan	Feb	Mar	Apr	May	Jun	Jul
1983	306	300	300	306	300	306	306
1984	300	306	306	312	318	300	312
1985	312	312	318	318	306	312	318

Expenditure in '000 Rs.

127. Which month has been most expensive during 1984 ?
 (a) June (b) April
 (c) May (d) July
128. The expenditure in May 1983 was ____ % less than that of corresponding period in 1985.
 (a) 3% (b) 2.5%
 (c) 1.5% (d) 2%
129. Which month has been least expensive during 1985 ?
 (a) June (b) April
 (c) May (d) July
130. What total expenditure has been made during the years 1983 and 1984 in the period covered in the graph ?
 (a) Rs. 42,87,000 (b) Rs. 2,70,000
 (c) Rs. 4,827,000 (d) Rs. 4,278,000

Instructions for Q. 131-133 : Study the data in the given table and answer the questions following it.

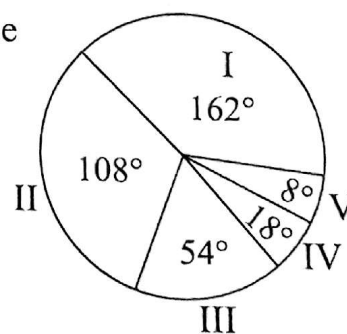
Distribution of Rainfall

S. No.	Rainfall (mm)	No. of Stations
1	20-30	9
2	30-40	15
3	40-50	20
4	50-60	10
5	60-70	7

131. How many stations receive a rainfall of upto 50 mm ?
 (a) 24 (b) 44
 (c) 54 (d) 35
132. How many stations receive a rainfall amounting to more than 40 mm ?
 (a) 37 (b) 52
 (c) 17 (d) 30

133. How many stations receive a rainfall between 30 and 60 mm ?
 (a) 45 (b) 54 (c) 30 (d) 44
134. The algebraic sum of deviations from mean is
 (a) maximum (b) minimum (c) zero (d) one
135. If $p_1 = P(A)$, $p_2 = P(B)$ and $p_3 = P(A \cap B)$, ($p_1, p_2, p_3 > 0$). Then $P(\bar{A} \cup \bar{B})$ is
 (a) $1 - p_3$ (b) $1 - p_1 - p_2$ (c) $1 - p_2$ (d) $p_1 - p_3$
136. In a frequency distribution with open ends, one cannot find out
 (a) mean (b) median (c) mode (d) all the above
137. The system of linear equations $x + y = 4$, $3x + 3y = 6$, has
 (a) no solution (b) unique solution
 (c) two solutions (d) infinitely many solutions
138. The value of the variable corresponding to the highest point of a frequency distribution curve represents
 (a) mean (b) median
 (c) mode (d) none of the above
139. What type of average should be employed in case of the size of shoes sold out in largest number from a shop ?
 (a) Mean (b) Median (c) Mode (d) None of these
140. The total adults in a city is 60000. The various sections of them are indicated below in the circle diagram.

- I employees in the public sector
 II employees in the private sector
 III employees in the corporate sector
 IV self employed
 V. unemployed



What percentage of the employed person is self employed ?

- (a) $5\frac{5}{9}$ (b) $19\frac{1}{5}$
 (c) 20 (d) 5

141. A, B and C are three arbitrary events. Expression for the event, 'none of them occurs,' is

(a) $\bar{A} \cup \bar{B} \cup \bar{C}$

(b) $\overline{A \cap B \cap C}$

(c) $\overline{A \cup B \cup C}$

(d) $A \cup B \cup C$

142. The average scores obtained by three groups of students, having 20, 30 and 50 students respectively, was found to be 120. If the combined average of first two groups was 30, what is the average of the third group ?

(a) 21

(b) 190

(c) 210

(d) Data is not consistent

Instructions for Q. 143-148 : Study the data in the following table and answer the questions.

Production of Food Grains (000 tonnes)

Year	Wheat	Rice	Millets	Pulses	Total
2008-09	105	120	78	67	370
2009-10	115	128	73	74	390
2010-11	118	137	85	77	417
2011-12	125	146	88	85	444
2012-13	136	156	91	88	471

143. During which period did the production of wheat grow at the highest rate ?

(a) 2008-09 to 2009-10

(b) 2009-10 to 2010-11

(c) 2010-11 to 2011-12

(d) 2011-12 to 2012-13

144. During which period did the production of rice grow at the slowest rate ?

(a) 2008-09 to 2009-10

(b) 2009-10 to 2010-11

(c) 2010-11 to 2011-12

(d) 2011-12 to 2012-13

145. In which year did the total production of food grains registered the highest growth rate ?

(a) 2009-10

(b) 2010-11

(c) 2011-12

(d) 2012-13

146. The highest growth rate in production of pulses was observed in
 (a) 2009-10 (b) 2010-11 (c) 2011-12 (d) 2012-13
147. About how much share of the total production of food grains was contributed by the millets in year 2012-13 ?
 (a) 22.1 per cent (b) 19.3 per cent
 (c) 15.1 per cent (d) 20.4 per cent
148. In which year did the millet contribute the least in the production of food grains ?
 (a) 2009-10 (b) 2010-11 (c) 2011-12 (d) 2012-13
149. Two integers are selected at random from integers 1 through 11. If the sum is even, find the probability that both the numbers are odd
 (a) $\frac{2}{5}$ (b) $\frac{3}{5}$ (c) $\frac{4}{25}$ (d) $\frac{9}{25}$
150. How many permutations of the letters of the word APPLE are there ?
 (a) 120 (b) 60 (c) 30 (d) 20
151. Two pipes A and B can fill a tank in 20 and 30 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
152. A man has some identical boxes. Each box is in the shape of a regular octagon with side 78 cm. How many boxes does the man have if the perimeter of all the boxes adds up to 5616 cm ?
 (a) 8 (b) 9 (c) 11 (d) 7
153. The jogging track in a sports complex is 726 metres in circumference. Deepak and his wife start from the same point and walk in opposite directions at 4.5 km/hr and 3.75 km/hr respectively. They will meet for the first time in
 (a) 4.9 min (b) 5.28 min
 (c) 5.5 min (d) 6 min
154. What is the next number in the sequence 0,1,1,2,4,7,13,24,____
 (a) 30 (b) 37 (c) 41 (d) 44

155. A sum of money is borrowed and paid back in two annual instalments of Rs. 882 each allowing 5% compound interest. The sum borrowed was
- (a) 1620 (b) 1640
(c) 1680 (d) 1700

156. The ratio of two numbers is 4:7 and their HCF is 6. Find out their LCM
- (a) 164 (b) 168
(c) 174 (d) 184

157. A man saves Rs. 1000/- every year from December 2015 for three years at interest rate of 10%. What amount he will get on December 2018 ?
- (a) 4651 (b) 3651
(c) 1651 (d) 651

158. A rectangular park is 45 m long and 30 m wide. A path of 2.5 wide is constructed outside the park. Find the area of the path ?
- (a) 600 m² (b) 750 m²
(c) 400 m² (d) 375 m²

159. The organizers of an essay competition decide that a winner in the competition gets a prize of Rs. 100 and a participant who does not win gets a prize of Rs. 25. The total prize money distributed is Rs. 3,000. Find the number of winners, if the total number of participants is 63
- (a) 15 (b) 17
(c) 19 (d) 21

160. If $-4x + 5y$ is subtracted from $3x + 2y$ then answer will be
- (a) $3x + 6y$ (b) $2x + 5y$
(c) $x - 3y$ (d) $x + 3y$

161. A's monthly expenditure is 10% less than B's, then B's monthly expenditure is more than that of A's by
- (a) 10% (b) $11\frac{1}{9}\%$
(c) 12% (d) 12.5%

162. There are two sections A and B of a class, consisting of 36 and 44 students, respectively. If the average weight of section A is 40 kg and that of section B is 35 kg, find the average weight of the whole class
- (a) 30 kg (b) 35 kg
(c) 42.5 kg (d) 37.25 kg
163. A right triangle with sides 3 cm, 4 cm and 5 cm is rotated the side of 3 cm to form a cone. The volume of the cone so formed is
- (a) 12 cm^3 (b) 15 cm^3
(c) 16 cm^3 (d) 20 cm^3
164. 66 cubic centimetres of silver is drawn into a wire 1 mm in diameter. The length of the wire in metres will be
- (a) 84 (b) 90
(c) 168 (d) 336
165. If a man spends Rs. 875 per month and saves $12\frac{1}{2}\%$ of his income, then what is his monthly income ?
- (a) Rs. 900 (b) Rs. 950
(c) Rs. 1060 (d) Rs. 1000
166. What will be the compound interest on Rs. 240 for 2 years at 4% per annum ?
- (a) Rs. 19.20 (b) Rs. 9.60
(c) Rs. 19.18 (d) Rs. 19.58
167. In how many years will Rs. 500 amount to Rs. 605 at 10% per annum compound interest ?
- (a) 3 years (b) 2 years
(c) 4 years (d) 2.5 years
168. A money lender lends Rs. 2000 for 6 months at 20% per annum whereas the interest is compounded quarterly. After the given period he will get the amount of
- (a) Rs. 2205 (b) Rs. 2200
(c) Rs. 2160 (d) Rs. 2040

169. One of the methods to find out Mode is
 (a) $\text{Mode} = 3 \text{ Median} + 2 \text{ Mean}$ (b) $\text{Mode} = 2 \text{ Median} - 3 \text{ Mean}$
 (c) $\text{Mode} = 3 \text{ Median} - 2 \text{ Mean}$ (d) $\text{Mode} = 3 \text{ Median} - 3 \text{ Mean}$
170. A number is doubled and 9 is added. If the resultant is tripled, it becomes 75. What is that number?
 (a) 3.5 (b) 6
 (c) 8 (d) 10
171. 1100 boys and 700 girls are examined in a test, 42% of the boys and 30% of the girls pass. The percentage of the total who failed is
 (a) $62\frac{2}{3}\%$ (b) 58%
 (c) 64% (d) 78%
172. The wheel of an engine 25 decimetre in circumference makes 10 revolutions in 4 seconds. The speed of the wheel (in km/hr) is
 (a) 36 (b) 25
 (c) 16 (d) 33
173. The volume of the largest right circular cone that can be cut out of a cube of edge 7 cm is
 (a) 13.6 cm^3 (b) 89.8 cm^3
 (c) 121 cm^3 (d) 147.68 cm^3
174. A man walking at the rate of 3 km/hr crosses a square field diagonally in 2 minutes. The area of the field (in acres) is
 (a) 25 (b) 30
 (c) 50 (d) 60
175. The minimum value of $\frac{b+c}{a} + \frac{c+a}{b} + \frac{a+b}{c}$ where a, b and c are positive integers is
 (a) 5 (b) 6
 (c) 7 (d) 8

176. An additional observation 15 is included in a series of 11 observations and its mean remains unaffected. The mean of the series was
- (a) 11 (b) 15
(c) 165 (d) 04
177. The median of a series is 10. Two additional observations, 7 and 20, are added to the series. The median of the new series will be
- (a) 09 (b) 20
(c) 07 (d) 10
178. In a ratio which is equal to 5:8, the antecedent is 40, then the consequent is
- (a) 25 (b) 48
(c) 64 (d) None
179. Which is the smallest of the following numbers ?
- (a) 3.3 (b) $\frac{10}{3}$
(c) $\frac{10}{33}$ (d) $\frac{3.3}{3}$
180. Think of a number, divide it by 4 and add 9 to it, the result is 15. Find the number
- (a) 24 (b) 64 (c) 48 (d) 32
181. A 15 litre mixture of 20% solution in water has 15 litre of water added to it. The strength of mixture as a per cent is nearly
- (a) 20 (b) 18 (c) 10 (d) 8.8
182. If $6x + 3 = 39$, then $15x - 10$ will be
- (a) 100 (b) 80 (c) 95 (d) 115
183. How many spokes are in a wheel if the angle between adjoining spokes is 20°
- (a) 17 (b) 18
(c) 19 (d) 20

184. The net price of a Rs. 25 item after successive discounts of 20% and 30% is
 (a) Rs. 11.00 (b) Rs. 12.50
 (c) Rs. 14.00 (d) Rs. 19.00
185. A square is inscribed in a circle of area 18π . The side of the square is
 (a) 3 (b) 6
 (c) $3\sqrt{2}$ (d) $6\sqrt{2}$
186. How many numbers between 100 and 300 begin or end with 2 ?
 (a) 20 (b) 40
 (c) 110 (d) 180
187. The sum of first 20 consecutive integers is
 (a) 420 (b) 310
 (c) 210 (d) 110
188. In a class of 28 students the ratio of boys and girls is 5:2. If two more girls join the class, then what would be new ratio of boys and girls ?
 (a) 2 : 1 (b) 1 : 2
 (c) 3 : 2 (d) 2 : 3
189. Which of the following is not a prime number ?
 (a) 2 (b) 79
 (c) 161 (d) 247
190. What must be added to $\frac{1}{x}$ to make it equal to x ?
 (a) $\frac{x+1}{x-1}$ (b) $\frac{x-1}{x+1}$
 (c) $\frac{x^2+1}{x}$ (d) $\frac{x^2-1}{x}$
191. A shopkeeper offers a series of discount of 10%, 20% and 40%. This amounts to a single discount of
 (a) 43.20% (b) 56.80%
 (c) 70% (d) 60%

192. What is most appropriate to say about 'zero' ?
 (a) It is a natural number (b) It is a whole number
 (c) It is a positive integer (d) It is a negative integer
193. If $a + b + c = 0$, then $(a^3 + b^3 + c^3)$ is equal to
 (a) 0 (b) $ab + bc + ca$
 (c) abc (d) $3abc$
194. If the radius of a circle is decreased by 50%, the area will decrease by
 (a) 25% (b) 50%
 (c) 75% (d) remain same
195. How many diagonals are there in a hexagon ?
 (a) 4 (b) 6 (c) 9 (d) 11
196. In a random arrangement of the letters of the word 'COMMERCE,' find the probability that all the vowels come together
 (a) $\frac{3}{28}$ (b) $\frac{5}{28}$ (c) $\frac{13}{28}$ (d) $\frac{3}{14}$
197. If A and B are two sets, $\overline{A \cup B}$ is equal to
 (a) $\overline{A \cap B}$ (b) $\overline{A} \cup \overline{B}$
 (c) $A \cup B$ (d) $\overline{A} \cap \overline{B}$
198. Find the number of different permutations of the letters of the word BANANA
 (a) 10 (b) 20 (c) 60 (d) 120
199. Two numbers are in the ratio 3 : 5. If 9 be subtracted from each, then they are in the ratio of 12 : 23. The second number is
 (a) 52 (b) 53 (c) 54 (d) 55
200. Find the smallest perfect square number which is divisible by each of the numbers 6, 9 and 15
 (a) 900 (b) 90
 (c) 450 (d) 8100

Handwritten calculation:

$$\begin{array}{r} 2 \\ 14 \overline{) 280} \\ \underline{28} \\ 0 \end{array}$$