

## Model Answers

Correct options have been highlighted in red with cross

Group B, CET-2018 (May 22, 2018)

### SECTION I- QUANTITATIVE ABILITY

1. Fill the missing number of the series

12, 14, 16, 18, 20, ...

- A. 21
- B. 22 X
- C. 23
- D. 24
- E. 25

2. Two Dogs, three girls, and one hen have how many legs?

- A. 14
- B. 15
- C. 16 X
- D. 18
- E. 20

3. What's the next prime number after 7?

- A. 8
- B. 9
- C. 10
- D. 11 X
- E. 15

4. If  $18 - x = 9$ , Then  $x = ?$

- A. 7
- B. 8
- C. 9 X

D. 10

E. 11

5. How many 5 minutes are there in an hour?

A. 5

B. 10

C. 12 X

D. 18

E. 22

6. There is a number which has two in the ones place. The number is less than 13 but greater than 11. Guess the number.

A. 22

B. 12 X

C. 32

D. 42

E. 54

7. The car park area for a new Mall will have 80 parking spaces. If each row can have 4 parking spaces for cars, how many rows will the car park area need?

A. 10

B. 20 X

C. 30

D. 40

E. 50

8. Amit wants to sell 26 pens. So far he has sold 14 to his uncle, 2 to his cousin and 1 to his friend. How many more pens he needs to sell?

A. 7

B. 8

C. 9 X

D. 10

E. 11

9. Ram has 3 pencils, Shyam has 5 pencils, Ghanshaym has 7 pencils and Hariram has 9. If this pattern continues then how many pencils does Amit has?

A. 11 X

B. 12

C. 13

D. 14

E. 15

10. Ram had 20 bottles. He went to market and bought 8 crates of bottles. Each crate had 6 bottles. How many bottles does Ram has now?

A. 38

B. 48

C. 58

D. 68 X

E. 78

11.  $6y = 48$ . How much is y?

A. 7

B. 8 X

C. 9

D. 10

E. 12

12. The line that divides a circle into half is called:

A. diameter X

B. radius

C. area

D. 2 x area

**E. diagonal**

**13. Which is the odd one out from below:**

**3, 7, 15, 17, 24, 27, 29.**

**A. 15**

**B. 17**

**C. 24 X**

**D. 27**

**E. 32**

**14. Sonal bought a car for Rs.5000 and sold the car for Rs. 8000 What is Sonal's profit?**

**A. 2000**

**B. 3000 X**

**C. 4000**

**D. 5000**

**E. 8000**

**15. Add below times together:**

**3 hours, 32 minutes +3 hours, 20 minutes**

**A. 6 hours, 25 minutes**

**B. 6 hours, 32 minutes**

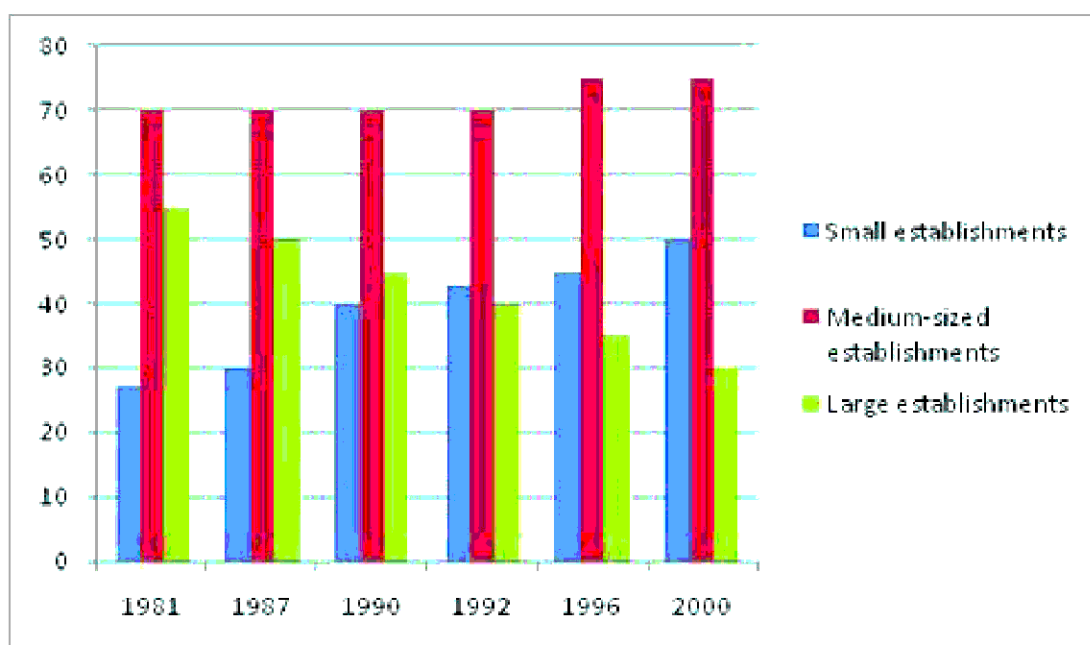
**C. 6 hours, 22 minutes**

**D. 6 hours, 52 minutes X**

**E. 6hours, 58 minutes**

## SECTION II- DATA INTERPRETATION

**Q. 16-20:**The following diagram shows the percentage share of manufacturing sector in total employment in small, medium and large establishments individually. The definitions of small, large and medium establishments are shown below in the diagram



*Note: Small establishments are defined as those with fewer than 100 employees. Medium-sized establishments are defined as those with between 100 and 1500 employees. Large establishments are defined as those with more than 1500 employees. Study the diagram carefully and answer the questions given below:*

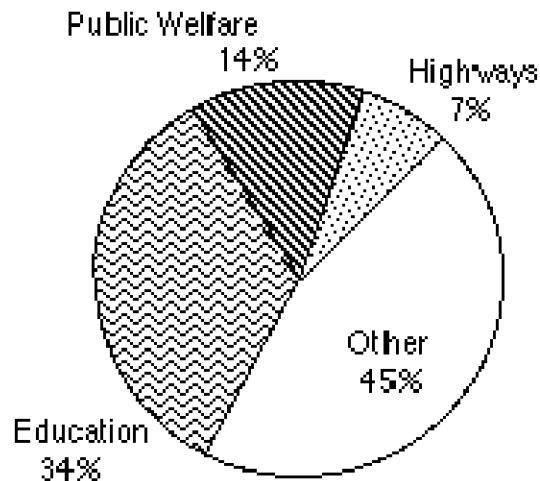
16. In 1981 and 1987 about 50 million and 60 million people were employed in small establishments. What was the difference between the number of employees employed in manufacturing sector small establishments in 1981 and 1987?

- A. 4.5 million X
- B. 13.5 million
- C. 5.0 million
- D. 6.3 million
- E. 5.4 million

17. In 1981 about 30 million (m) employees were there in the large establishment. Then how many employees were there in the medium-sized establishments? (Approximately)
- A. 25 m
  - B. 40 m
  - C. 35 m
  - D. Can't be determined X
  - E. No option is correct
18. In 1987, about 40 million (m) employees were there in the large establishments. The population of employees from 1987 to 2000 grew by 60% in large establishments. How many employees were there in the manufacturing sector in large establishments in 2000?
- A. 33.2 m
  - B. 69.3 m
  - C. 19.2 m X
  - D. 47.2 m
  - E. No option is correct
19. Suppose that in 1996, there were 100,000 employees in manufacturing sector. There were 750 small establishments. What was the average number of employed persons per small establishment manufacturing unit?
- A. 36
  - B. 41
  - C. 56
  - D. Can't be determined X
  - E. 40
20. Which of the following is/are correct?
- (i) Share of manufacturing employment in small establishment is rising steadily.
  - (ii) In large establishments there is growing unemployment.
- A. (i) only X
  - B. (ii) only
  - C. (i) and (ii)
  - D. Neither (i) nor (ii)

E. No option is correct

**Q. 21-25: Based on the circle graph given below, answer the following questions.  
Expenditure for State and Local Governments**



21. What type of information is being presented on this graph?
- A. Expenditure for education
  - B. Expenditure for public welfare
  - C. Expenditure for state and local governments X
  - D. Expenditure for highways
  - E. No option is correct
22. If the total spending is \$50,000, how much money was spent on highways?
- A. \$ 3,500 X
  - B. \$ 22,500
  - C. \$ 15,000
  - D. \$ 20,000
  - E. \$ 4,500
23. Approximately how many times the amount spending on highways is spent on education?
- A. 10
  - B. 3
  - C. 5 X
  - D. 15

E. 7

24. Approximately what fraction of the total expenditure are spent on highways and public welfare combined?

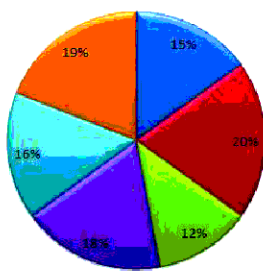
- A.  $\frac{2}{5}$
- B.  $\frac{1}{5}$  X
- C.  $\frac{1}{2}$
- D.  $\frac{2}{3}$
- E.  $\frac{1}{4}$

25. How much money was spent as other expenses

- A. 22,500 X
- B. 15,000
- C. 30,000
- D. 20,000
- E. No option is correct

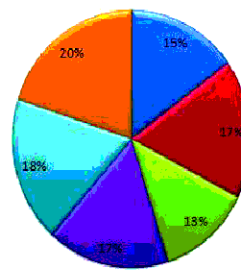
**Q. 26-30: The following pie charts show the total income and the total expenditure of family members. Study the following pie-charts carefully and answer the questions given below:**

Total income of family members=2,40,000



A  
B  
C  
D  
E  
F

Total expenditure=1,44,000



A  
B  
C  
D  
E  
F

26. What is the difference between the Income of F and the expenditure of A?

- A. 36000
- B. 21000
- C. 30000
- D. 24000 X
- E. 27000



27. What is the ratio of total income of A and B together and the total expenditure of E and F together?
- A. 149 : 151
  - B. 123 : 150
  - C. 175 : 114 X
  - D. 100 : 93
  - E. 114:175
28. Find the total saving of B and D
- A. 45200
  - B. 42640
  - C. 43950
  - D. 46250
  - E. No option is correct X
29. Find the average income of A, C and D
- A. 36000 X
  - B. 45000
  - C. 28800
  - D. 35000
  - E. 30000
30. If the income of F is increased by 10% and the expenditure increased by 5%. Find the saving.
- A. 14325
  - B. 16250
  - C. 19920 X
  - D. 15650
  - E. 18520

**SECTION III- LOGICAL REASONING & GENERAL INTELLIGENCE**

31. 32 31, 32 29, 32 27, 32 ---?

- A. 25, 32 X
- B. 31, 32
- C. 29, 32
- D. 30 29
- E. 25, 30

32. 10 34, 12 31, 14 28, 16 ---?

- A. 25, 18 X
- B. 12, 24
- C. 25, 20
- D. 18, 25
- E. 30, 18

33. QPO, NML, KJI, \_\_\_\_\_, EDC

- A. HGF X
- B. DEC
- C. HGE
- D. DFC
- E. HFG

34. B<sub>2</sub>CD, \_\_\_\_\_ BCD<sub>4</sub>, B<sub>5</sub>CD, BC<sub>6</sub>D

- A. BC<sub>2</sub>D
- B. BC<sub>3</sub>D X
- C. BCD<sub>7</sub>
- D. BCD<sub>3</sub>
- E. B<sub>2</sub>C<sub>3</sub>D

35. Fact 1: Jessica has four children.

Fact 2: Two of the children have blue eyes and two of the children have brown eyes.

Fact 3: Half of the children are girls.

If the first three statements are facts, which of the following statements must also be a fact?

I. At least one girl has blue eyes.

II. Two of the children are boys.

III. The boys have brown eyes.

A. I. only

**B. II Only X**

C. I and II both

D. III only

E. I, II and III

36. Fact 1: All chickens are birds.

Fact 2: Some chickens are hens.

Fact 3: Female birds lay eggs.

If the first three statements are facts, which of the following statements must also be a fact?

I. All birds lay eggs.

II. Hens are birds.

III. Some chickens are not hens.

**A. II and III only X**

B. II only

C. I only

D. III only

E. I, II, III

37. 'Morpirquat' means 'birdhouse'

'beelmorpir' means 'bluebird'

'beelclak' means 'bluebell'

Which word could mean "houseguest"?

**A. Quathunde X**

B. Clakquat

C. Morpirhunde

D. Beelmoki

E. None

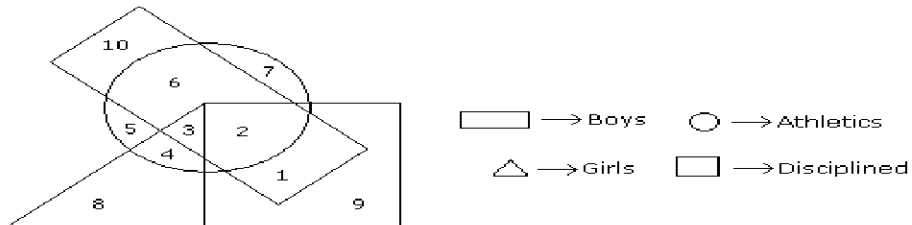
38. BRISTLE : BRUSH

- A. arm : leg
- B. stage : curtain
- C. recline : chair
- D. key : piano X
- E. art : sculpture

39. FISH : SCHOOL

- A. wolf : pack X
- B. elephant : jungle
- C. beagle : clan
- D. cow : farm
- E. herd : peacock

40. In the following diagram the boys who are athletic and are disciplined are indicated by which number?



- A. 2 X
- B. 4
- C. 6
- D. 7
- E. 1

41. CUP : LIP :: BIRD : ?

- A. BUSH
- B. BEAK X
- C. GRASS
- D. FOREST
- E. NEST

**Directions for Questions 42- 45: Study the following information to answer the given questions**

Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the right of Rani. Reeta is between Rani and Mary.

42. Who is sitting immediate right to Reeta ?

- A. Bindu
- B. Mary X**
- C. Seema
- D. Reeta
- E. None

43. Who is in the middle of the photograph ?

- A. Rani X**
- B. Bindu
- C. Seema
- D. Mary
- E. Reeta

44. Who is second from the right ?

- A. Bindu
- B. Seema
- C. Mary
- D. Reeta X**
- E. Rani

45. Who is second from the left in photograph ?

- A. Bindu
- B. Seema X**
- C. Mary
- D. Reeta
- E. Rani

#### SECTION IV -ENGLISH LANGUAGE AND COMPREHENSION

46. Which of the following expressions is not written correctly?
- A. Every thing X
  - B. Everything
  - C. Anything
  - D. Anybody
  - E. No option is correct
47. Which of the following expressions is written correctly?
- A. There in
  - B. There from
  - C. Where fore
  - D. Henceforth X
  - E. No option is correct
48. Which of the following sentences shows the correct use of conjunction ?
- A. Scarcely had he gone, than a policeman knocked at the door.
  - B. He had scarcely read the letter than a telegram arrived.
  - C. I doubt that he was there.
  - D. I doubt if he was there. X
  - E. No option is correct
49. Which of the following sentences shows the correct use of Preposition ?
- A. He lives by honest labour. X
  - B. I blush for my own fault.
  - C. I shall call at you in your office .
  - D. I invited him at dinner.
  - E. No option is correct
50. Which of the following sentences shows the correct use of Preposition?
- A. Upon enquiry I found him honest.
  - B. I was disgusted with his selfishness .
  - C. I am glad with the result.
  - D. They were occupied in cutting wood. X
  - E. No option is correct

51. Which of the following sentences is correct?

- A. Our surroundings was pleasant.
- B. The rich is happier than the poor.
- C. He gave me some informations.
- D. He did three –fourth of the work. X
- E. Each of them followed their plan.

52. Point out the correct sentence as far as the word-order is concerned.

- A. This is a quite different thing.
- B. This is quite a different thing. X
- C. The both men came.
- D. To whom you will give it?
- E. No option is correct

53. Point out the correct sentence as far as the word-order is concerned.

- A. The more you labour hard , the more you will learn.
- B. The more you labour hard, the more will you learn. X
- C. No sooner I had started than it began to rain
- D. Scarcely the bell had rung before I reached school
- E. No option is correct

54. Peroration is :

- A. The opening of any speech.
- B. The concluding part of any speech. X
- C. A short sentence often quoted
- D. The middle part of any speech
- E. No option is correct

55. Which of the following words is not a synonym of ‘Abandon’?

- A. Forsake
- B. Relinquish
- C. Abdicate
- D. Plenty X
- E. No option is correct

56. Which of the following words is an antonym of ‘opaque’?

- A. Transparent X
- B. Timid
- C. Folly
- D. Wild
- E. No option is correct

57. Which of the following is not a 'Modal Auxiliary'?

- A. Ought to
- B. Used to
- C. Could
- D. Had X
- E. No option is correct

58. Main verb is also known as :

- A. Helping verb
- B. Modal auxiliary
- C. Primary auxiliary
- D. Lexical verb X
- E. No option is correct

59. "Superannuation" refers to-

- A. Retirement X
- B. Promotion
- C. Appointment
- D. Suspension
- E. No option is correct

60. Which of the following option is correct as an "indirect speech" of –  
*He told me, "Don't shout in the class."*:

- A. He forbids me not to shout in the class.
- B. He forbids me not to shout.
- C. He forbade me to not shout in the class.
- D. He stops me.
- E. No option is correct X



## SECTION V- GENERAL AWARENESS AND SOCIO-ECONOMIC ENVIRONMENT

61. Which of the following metals is used for generation of nuclear energy by most of the Nuclear Power Plants?
- A. Zinc
  - B. Platinum
  - C. Uranium X
  - D. Nickel
  - E. No option is correct
62. Many a times, we read a term 'PPP' in financial dailies/magazines. What is the full form of the same as used in the financial world?
- A. Public Per Capita Power
  - B. Per Capita Potential Purchases
  - C. Purchasing Power Parity X
  - D. Present Purchasing Power
  - E. No option is correct
63. Which of the following is **not** a part of the scheduled banking structure in India?
- A. Money Lenders X
  - B. Public Sector Banks
  - C. Private Sector Banks
  - D. Regional Rural Banks
  - E. State Cooperative Banks
64. Tipu Sultan was the ruler of:
- A. Madurai
  - B. Mysore X
  - C. Vijaynagar
  - D. Hyderabad
  - E. No option is correct
65. Which of the following is the correct abbreviation of BC?
- A. Birth of Christ
  - B. Baby Christ
  - C. Before Christ X
  - D. Before Century
  - E. No option is correct

66. The reaction which converts sugar solution into alcohol is an example of:
- A. Saponification
  - B. Hydrogenation
  - C. Fermentation X**
  - D. Hydrolysis
  - E. No option is correct
67. The normal threshold of hearing is around
- A. 60-80 db
  - B. 45-60 db
  - C. 100-120 db
  - D. 25-45 db X**
  - E. No option is correct
68. Kiwi is:
- A. A desert snake
  - B. Fastest flying chiropteran mammal of Australia
  - C. A species of vulture found in Amazon forest only
  - D. Flightless bird found only in New Zealand X**
  - E. No option is correct
69. Statue of Liberty is the national monument of:
- A. Italy
  - B. Australia
  - C. France
  - D. Denmark
  - E. USA X**
70. The mirrors used as rear-view mirrors in vehicles are:
- A. Concave
  - B. Convex X**
  - C. Cylindrical
  - D. Plane
  - E. No option is correct
71. The main function of IMF is to:
- A. Finance investment loans to developing countries.
  - B. Act as a private sector lending arm of the World Bank.
  - C. Help to solve balance of payment problems of member countries. X**
  - D. Arrange international deposits from banks
  - E. No option is correct

72. The term 'Goggly' is associated with which game?
- A. Football
  - B. Cricket X
  - C. Badminton
  - D. Hockey
  - E. Tennis
73. Aung San Sau Kyi, Nobel Peace Prize Winner belongs to which one of the following countries?
- A. China
  - B. North Korea
  - C. South Korea
  - D. Japan
  - E. Myanmar X
74. Every year 24<sup>th</sup> October is celebrated as:
- A. World Ozone Day
  - B. United Nations Day X
  - C. World Science Day
  - D. International Day for Non Violence
  - E. International Women's Day
75. Today is Thursday. The day after 59 days will be:
- A. Sunday X
  - B. Monday
  - C. Tuesday
  - D. Wednesday
  - E. Thursday