Name of Post:	Assistant Manager (Human Resource) in Assam Power Distribution Company Limited (APDCL)
Advt. No.	07/2023 dated 30.03.2023
Date of Screening Test	21.09.2023

AMHR/APDCL/II/23

_RE ASKED TO DO SO

Series

00716

TEST BOOKLET
Paper—II
(GENERAL STUDIES)

D

Time Allowed : 2 Hours   **Full Marks : 100**

Read the following instructions carefully before you begin to answer the questions :

1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Series are to be written legibly and correctly in the space provided on the Answer-Sheet with Black/Blue ballpoint pen.

2. **Answer-Sheet without marking Series as mentioned above in the space provided for in the Answer-Sheet shall not be evaluated.**

3. All questions carry equal marks.

   The Answer-Sheet should be submitted to the Invigilator.

   Directions for giving the answers : Directions for answering questions have already been issued to the respective candidates in the 'Instructions for marking in the OMR Answer-Sheet' along with the Admit Card and Specimen Copy of the OMR Answer-Sheet.

   Example :

   Suppose the following question is asked :
   The capital of Bangladesh is
   (A) Chennai
   (B) London
   (C) Dhaka
   (D) Dhubri

   You will have four alternatives in the Answer-Sheet for your response corresponding to each question of the Test Booklet as below :

   Ⓐ Ⓑ Ⓒ Ⓓ

   In the above illustration, if your chosen response is alternative (C), i.e., Dhaka, then the same should be marked on the Answer-Sheet by blackening the relevant circle with a Black/Blue ballpoint pen only as below :

   Ⓐ Ⓑ ● Ⓓ

   The example shown above is the only correct method of answering.

4. Use of eraser, blade, chemical whitener fluid to rectify any response is prohibited.

5. Please ensure that the Test Booklet has the required number of pages (20) and 100 questions immediately after opening the Booklet. In case of any discrepancy, please report the same to the Invigilator.

6. No candidate shall be admitted to the Examination Hall/Room 20 minutes after the commencement of the examination.

7. No candidate shall leave the Examination Hall/Room without prior permission of the Supervisor/Invigilator. No candidate shall be permitted to hand over his/her Answer-Sheet and leave the Examination Hall/Room before expiry of the full time allotted for each paper.

8. No Mobile Phone, Electronic Communication Device, etc., are allowed to be carried inside the Examination Hall/Room by the candidates. Any Mobile Phone, Electronic Communication Device, etc., found in possession of the candidate inside the Examination Hall/Room, even if on off mode, shall be liable for confiscation.

9. No candidate shall have in his/her possession inside the Examination Hall/Room any book, notebook or loose paper, except his/her Admission Certificate and other connected papers permitted by the Commission.

10. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.

11. This Test Booklet can be carried with you after answering the questions in the prescribed Answer-Sheet.

12. Noncompliance with any of the above instructions will render a candidate liable to penalty as may be deemed fit.

13. No rough work is to be done on the OMR Answer-Sheet. You can do the rough work on the space provided in the Test Booklet.

N.B. : There will be negative marking @ 0·25 per 1 (one) mark against each wrong answer.

/134-D   **[No. of Questions : 100]**

1. Correct the underlined section and replace it with one of the options given below :

I am not sure why she is wanting to see him.

(A) is she wanting

(B) she wants

(C) does she want

(D) she has been wanting

2. Improve the given sentence by choosing the suitable alternative for the underlined section :

He has said so out of affection, do not take it to heart.

(A) in heart

(B) it in the heart

(C) by the heart

(D) No improvement

3. Choose the alternative that best expresses the meaning of the underlined idiom/phrase :

He has become the sacred cow of the party.

(A) A person never to be criticized

(B) A religious person

(C) A saintly person

(D) An evil person

4. The antonym of 'ameliorate' is

(A) rot

(B) worsen

(C) deteriorate

(D) increase

5. Identify the correct passive form of the given sentence :

The rules forbid passengers to cross the railway line.

(A) Passengers are not allowed to cross the railway line.

(B) According to rules, passengers are not allowed to cross the railway line.

(C) Passengers are forbidden to cross the railway line.

(D) Passengers should not cross the railway line.

6. Complete the following passage with the correct option given below :

The earth is one of the known planets that circle the sun. In _____ times, the men who studied the _____ noticed that while certain heavenly _____ seemed fixed in the sky, others seemed to _____ about it.

(A) ancient, stars, bodies, roam

(B) antique, earth, sun, move

(C) past, light, objects, run

(D) modern, sun, entities, jump

7. Arrange the following phrases to make a meaningful sentence :

   All religions are

   P. to advance the cause of peace

   Q. in a holy partnership

   R. justice and freedom

   S. bound together

   (A) P, Q, R, S

   (B) P, R, Q, S

   (C) S, P, Q, R

   (D) S, Q, P, R

8. Choose the assertive form of the given sentence :

   If only I were young again!

   (A) I wish I was young again

   (B) I wish I were young once again

   (C) I wish I were younger again

   (D) I wish I were young again

9. Improve the given sentence by replacing the underlined word with a better word from the options provided :

   Hardly had he finished his work than the peon arrived with another file.

   (A) when

   (B) then

   (C) while

   (D) No change

10. Join the following sentences using a participle or adjective :

    The boy felt tired. He rested for a while.

    (A) The tired boy rested a while.

    (B) Feeling tired the boy rested for a while.

    (C) Being tired he rested a while.

    (D) On feeling tired he rested for a while.

11. Correct the error in the given sentence by replacing the words in bold with a better option :

    English today **is closer to been** a world language than any other has been in History.

    (A) is closer for been

    (B) is closer upon being

    (C) is closer to being

    (D) No correction required

12. Choose the appropriate conjunction to fill in the blank in the following sentence :

    _____ you run, you will not overtake him.

    (A) Until

    (B) Unless

    (C) Don't

    (D) Faster

13. Identify the incorrect spelling.

(A) Rumble

(B) Mumble

(C) Stumble

(D) Jumbble

14. Identify the appropriate word as the substitute for the given phrase :

To play the part of and function as some other person

(A) Act

(B) Impersonate

(C) Imitate

(D) Pretend

15. Transform the given sentence into its comparative degree form :

This razor is not as sharp as that one.

(A) That razor is sharper than this one.

(B) That razor is not sharper than this one.

(C) That razor is sharper then this one.

(D) That razor is more sharp than this one.

16. Join the following sentences using a noun or a phrase in apposition :

Pele is a legendary football player. He is a Brazilian.

(A) Pele, a legendary football player, was a Brazilian.

(B) Pele, who was a legendary football player, is a Brazilian.

(C) Pele, who is a legendary football player, is a Brazilian.

(D) Pele, a legendary football player, is a Brazilian.

17. Choose the correct alternative for the underlined part in the given sentence :

He offered me tea but I <u>denied</u> it.

(A) Refuted

(B) Neglected

(C) Declined

(D) No change

18. Identify the correct synonym of the underlined word in the given sentence :

A good manager has no <u>qualms</u> about dropping players who are out of form.

(A) Hesitancy

(B) Problem

(C) Issue

(D) Idea

19. Pick the most effective word from the given options to meaningfully complete the sentence :

It is not fair to cast _____ on honest and innocent people.

(A) aspiration

(B) aspersions

(C) doubts

(D) suspicion

20. Choose the correct active form of the given sentence :

Has the villa been occupied by them?

(A) Are they occupying the villa?

(B) Have they occupied the villa?

(C) Did they occupy the villa?

(D) Had they occupied the villa?

Direction (for Question Nos. **21–26**) : In the following passage, there are blanks, each of which has been numbered. Four words for each blank have been mentioned against the number below the passage. Choose the correct alternatives to fill in the blanks in the context of the passage :

It is difficult to find a person who would put in a good word for the kind of bureaucracy we have in India. __**(21)**__ the attainment of the Independence, India, __**(22)**__ from time-to-time, several power committees or commissions to __**(23)**__ administration. In spite of all this, the impression __**(24)**__ that the

Indian variety of bureaucracy has been slow and slothful. Fact is that the __**(25)**__ of bureaucracy happens to be __**(26)**__ the same all over the world.

21. (A) Till

(B) Since

(C) With

(D) From

22. (A) appointed

(B) selected

(C) arranged

(D) framed

23. (A) reform

(B) revive

(C) perform

(D) transform

24. (A) subsists

(B) consists

(C) insists

(D) persists

25. (A) function

(B) structure

(C) growth

(D) behaviour

26. (A) structurally

(B) precisely

(C) practically

(D) strictly

27. Choose the appropriate word to substitute the following phrase :

Medicine to counteract the effect of poison

(A) Emetic

(B) Antidote

(C) Antivenom

(D) Antiseptic

28. Arrange the following phrases to make a meaningful sentence :

The only time

P. when this dynamic cricketer

Q. was on the 1979 tour of England

R. failed with the bat

S. the tag of an all-rounder did not fit him

(A) S, P, R, Q

(B) P, R, S, Q

(C) S, R, P, Q

(D) S, Q, P, R

29. Fill in the blank with the correct question tag :

It hardly rains here in June, _____?

(A) isn't it

(B) doesn't it

(C) does it

(D) is it

30. In the following question, out of the four alternatives, choose the one which can be substituted for the given sentence/phrase :

A short story based on your previous experience

(A) Parable

(B) Legend

(C) Anecdote

(D) Fable

31. In the following question, the first and the last part of the sentence has been given. The remaining four parts of the sentence have been labelled as P, Q, R and S, and are jumbled up. Identify the proper order of these four parts :

Education in India had a glorious beginning.

As the British left, we had a range of opinions regarding English.

P. But after the British rule, it faced many challenges.

Q. It went for centuries with the same glory.

R. English as a medium of instruction had a very great response.

S. One of the changes was the introduction of English as the medium of instruction.

(A) P, Q, R, S

(B) Q, P, S, R

(C) P, Q, S, R

(D) S, R, P, Q

32. Transform the following into an assertive sentence :

How cold is this December night!

(A) This December night is so cold.

(B) This December night is very cold.

(C) This December night is too cold.

(D) This December night is how cold.

33. Transform the following sentence into positive degree without changing the meaning :

That shirt is whiter than this one.

(A) This shirt is not as white as that one.

(B) This shirt is as white as that one.

(C) This is a whiter shirt.

(D) This shirt is the whitest.

34. Identify the correct meaning of the idiom underlined in the given sentence :

A good teacher should have the gift of the gab.

(A) A good personality

(B) Dedication

(C) Talent for speaking

(D) Strict disciplinarian

35. Improve the following sentence by identifying the appropriate option :

I am used to hard work.

(A) Hardworking

(B) Working hard

(C) Work hardly

(D) No improvement

36. In the given sentence, replace the word in bold with a word from the given options :

One can live and work in a city without being aware of the daily march of the sun across the sky or without **never** seeing the moon and the stars.

(A) Seldom

(B) Hardly

(C) Ever

(D) Usually

37. Identify the part which has an error in the following sentence. If there is no error choose option (D) :

As soon as he opened the old wooden box than a rat jumped out of it.

(A) the old wooden box

(B) than a rat

(C) jumped out of it

(D) No error

38. Identify the synonym of 'deplore'.

(A) Support

(B) Denounce

(C) Dent

(D) Depredate

39. Choose the correct synonym of the given underlined word :

It is understood that the talks have hit an <u>impasse</u>.

(A) Argument

(B) Deadlock

(C) Arbitrary

(D) Agreement

40. Select the correct passive form of the given sentence :

Manu will tell her later.

(A) She will be tell later by Manu.

(B) She will tell later by Manu.

(C) She will be told later by Manu.

(D) She shall be tell later by Manu.

41. Choose the correct spelling among the options given below.

(A) Forefiet

(B) Forefeit

(C) Forfeit

(D) Forfiet

42. Select the correct preposition and complete the given sentence :

The public are cautioned _____ pickpockets.

(A) for

(B) against

(C) about

(D) of

43. In the following question, some parts of the sentence may have errors. Identify the errors and select the answer from the options provided. If the sentence is free from error, select option (D) :

I. With the demands of the industry

II. and service sectors changing

III. at such a rapid pace, students need to

IV. be sharp and choose a career wisely.

(A) I and III

(B) II and IV

(C) II and III

(D) No error

44. Arrange the following into a proper sentence :

Recently

P. containing memorable letters of Gandhiji

Q. a book

R. has been published

S. by a reputed publisher

(A) Q, P, R, S

(B) P, Q, R, S

(C) Q, R, P, S

(D) R, Q, P, S

45. The meaning of the idiom 'to eat humble pie' is

(A) apologize humbly

(B) be very poor

(C) to eat very humbly

(D) to be defeated

46. The argument does not <u>hold water</u>. The underlined idiom means

(A) unsound

(B) hollow

(C) obstruct

(D) contain

47. In the given sentence, replace the words highlighted in bold with the words from the given options :

He is **on cloud nine** after having stood first in class.

(A) In ninth cloud

(B) On nine clouds

(C) On cloudy nine

(D) No correction required

48. Choose the correct alternative to substitute the given sentence/ phrase :

One who criticizes popular beliefs which he thinks is mistaken or unwise

(A) Philistine

(B) Iconoclast

(C) Imposter

(D) Critic

49. Identify the correct antonym of the given underlined word :

Her <u>candid</u> remarks impressed the consultants.

(A) Blunt

(B) Guarded

(C) Sincere

(D) Unconventional

50. Fill in the blank with the correct question tag from the options given below :

Let us start now, _____?

(A) shall we

(B) should we

(C) could we

(D) would we

51. Complete the following series :

13, 13, 19, 43, 103, ?

(A) 217

(B) 221

(C) 223

(D) 227

52. The length, breadth and height of a perfect cube was increased in the ratio 1 : 2 : 3 respectively. The height of the new structure is found to be 4 m. The ratio of the new volume to the old volume is

(A) 1 : 12

(B) 1 : 24

(C) 12 : 1

(D) 24 : 1

53. A boat running upstream takes 5 hours 12 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water in current?

(A) 23 : 3

(B) 21 : 2

(C) 25 : 7

(D) 28 : 9

54. If $p : q = r : s$ for any natural numbers p, q, r and s, then, which one of the following is true?

(A) $\dfrac{p+q}{r} = \dfrac{r+s}{q}$

(B) $\dfrac{pq}{r} = \dfrac{rs}{p}$

(C) $s(p-q) = q(r-s)$

(D) $\dfrac{p-q}{r} = \dfrac{r-s}{q}$

55. A 20 litre mixture contains milk and water in the respective ratio of 3 : 2. If 10 litre of the mixture is removed and replaced with pure milk and the operation is repeated once more, at the end of the two removals and replacement, what is the ratio of milk and water in the resultant mixture?

(A) 17 : 3

(B) 9 : 1

(C) 4 : 17

(D) 5 : 3

56. On what sum does the difference between the compound interest and the simple interest for 3 years at 10% is ₹31?

(A) ₹1,500

(B) ₹1,200

(C) ₹1,100

(D) ₹1,000

57. A larger cube is formed by melting three smaller cubes of sides 3 cm, 4 cm and 5 cm respectively. What is the ratio of the total surface areas of the small cubes and the larger cube?

(A) 2 : 1

(B) 3 : 2

(C) 25 : 18

(D) 27 : 20

58. The HCF of $\frac{2}{3}$ and $\frac{5}{9}$ is

(A) $\frac{1}{9}$

(B) $\frac{10}{27}$

(C) $\frac{5}{6}$

(D) $\frac{6}{5}$

59. The average marks obtained by 40 students of a class is 86. If the 5 highest marks are removed, then the average reduces by 1 mark. The average marks of top 5 students is

(A) 92

(B) 93

(C) 95

(D) 96

60. A square of side a is placed inside a circle such that the intersection of the two diagonals of the square coincides with the centre of the circle and that each of the four corners of the square touches the circle from inside. The area of the circle is

(A) $\frac{\pi a^2}{\sqrt{2}}$

(B) $\frac{\pi a^2}{2}$

(C) $\frac{\pi a^2}{3}$

(D) $\frac{\pi a^2}{\sqrt{3}}$

61. The largest number amongst 2^7, 3^6, 4^5 and 5^4 is

(A) 2^7

(B) 3^6

(C) 4^5

(D) 5^4

62. The LCM of two numbers is 48. The numbers are in the ratio 2 : 3. The sum of the numbers is

(A) 28

(B) 32

(C) 40

(D) 64

63. In a certain sequence of numbers, the average value of first 19 numbers is 20 and the average of first 20 numbers is 19. The value of the 20th number is

(A) 0

(B) 1

(C) 19

(D) 20

64. A cylinder whose height is $\frac{2}{3}$ of its diameter has same volume as that of a sphere of radius 8 cm. The radius of base of the cylinder is

(A) 8 cm

(B) 4 cm

(C) 2 cm

(D) 5 cm

65. Four farmers A, B, C and D work in a field in such a way that A comes to the field everyday, B comes every alternate day, C comes every two alternate days and D comes every three alternate days. If all the four farmers are working together in the field on the 1st day of a certain month, then on which day of the month, all the four farmers will be working together in the field?

(A) 19th day

(B) 16th day

(C) 13th day

(D) 11th day

66. The length of the diagonal of one face of a rectangular cube is found to be $2\sqrt{2}$ cm. The volume of the rectangular cube is

(A) $4\sqrt{2}$ cm^3

(B) $8\sqrt{2}$ cm^3

(C) 18 cm^3

(D) 8 cm^3

67. Ramesh bought 10 cycles for ₹500 each. He spent ₹2,000 on the repair of all cycles. He sold five of them for ₹750 each and the remaining for ₹550 each. Then, the total gain or loss % is

(A) gain of $8\frac{1}{3}$%

(B) loss of $8\frac{1}{3}$%

(C) gain of $7\frac{2}{3}$%

(D) loss of $7\frac{1}{7}$%

68. A hemispherical bowl containing water has a small hole through which water leaks at the rate of π litres/hour. Assume that the bowl is completely filled with water and that 1000 litres of water occupy 1 cubic metre of volume. If the entire volume of water in the bowl is fully leaked out in 40 minutes, then the radius of the bowl is

(A) π cm

(B) 3 cm

(C) 8 cm

(D) 10 cm

69. *A* sells an item at 20% profit to *B*. *B* sells it to *C* at 10% profit. *C* sells it to *D* at the profit of ₹16. The difference between the cost price of *D* and cost price of *A* was ₹500. How much did *B* pay to *A* for the item?

(A) ₹1,240

(B) ₹1,815

(C) ₹1,440

(D) ₹1,450

70. If $x + \dfrac{1}{x} = 3$, then the value of $\dfrac{3x^2 - 4x + 3}{x^2 - x + 1}$ is

(A) $\dfrac{4}{3}$

(B) $\dfrac{3}{2}$

(C) $\dfrac{5}{2}$

(D) $\dfrac{5}{3}$

71. The cost of rice increases by 25% per kg. By what percentage, a household must reduce its consumption to maintain its old budget for rice?

(A) 20%

(B) 25%

(C) 33·33%

(D) 40%

72. In a test, minimum passing percentage for girls and boys is 35% and 40% respectively. A boy scored 483 marks and failed by 117 marks. What is the minimum passing marks for girls?

(A) 425

(B) 520

(C) 500

(D) 525

73. The value of $\sqrt{(243)^{\frac{2}{5}} + 8^{\frac{5}{3}} + (343)^{\frac{1}{3}}}$ is

(A) $3\sqrt{4}$

(B) $\sqrt{12}$

(C) $4\sqrt{3}$

(D) $3\sqrt{12}$

74. If $x + y = 4$ and $\dfrac{1}{x} + \dfrac{1}{y} = 4$, then the value of $x^3 + y^3$ is

(A) 52

(B) 64

(C) 4

(D) 25

75. If $a = \dfrac{\sqrt{3}+1}{\sqrt{3}-1}$ and $b = \dfrac{\sqrt{3}-1}{\sqrt{3}+1}$, then the value of $\dfrac{a^2+ab+b^2}{a^2-ab+b^2}$ is

(A) $\dfrac{15}{13}$

(B) $\dfrac{16}{13}$

(C) $\dfrac{11}{13}$

(D) $\dfrac{12}{13}$

76. Out of 30 consecutive positive integers, two are chosen at random. Find the probability of their sum to be even.

(A) $\dfrac{14}{19}$

(B) $\dfrac{14}{29}$

(C) $\dfrac{11}{29}$

(D) $\dfrac{17}{29}$

77. Arrange the words given below in a meaningful sequence :

I. Poverty

II. Population

III. Death

IV. Unemployment

V. Disease

(A) II, III, IV, V, I

(B) III, IV, II, V, I

(C) II, IV, I, V, III

(D) I, II, III, IV, V

78. A bag contains 6 identical balls—2 red balls, 2 green balls and 2 yellow balls. A person is asked to take out two balls from the bag without looking into it. The probability that the person picks up one red ball and one yellow ball is

(A) $\dfrac{1}{15}$

(B) $\dfrac{2}{5}$

(C) $\dfrac{4}{15}$

(D) $\dfrac{3}{5}$

79. Gautam places his wristwatch on a table in such a way that at 3 : 00 p.m. the hour hand of the watch points to the west direction. In which direction would the minute hand of the watch point when it is 6 : 00 p.m.?

(A) East

(B) West

(C) North

(D) South

80. A tank can be filled completely by 7 identical water pipes in 6 hours. After one-third of the tank is filled, 3 pipes were removed. The time required for completely filling the tank thereafter with the remaining pipes is

(A) 7 hours

(B) 9 hours

(C) 12 hours

(D) 13 hours

81. The wrong number in 37, 47, 52, 67, 87, 112, 142 is

(A) 87

(B) 67

(C) 52

(D) 47

82. If $\dfrac{x}{2x^2 + 5x + 2} = \dfrac{1}{6}$, then the value of $\left(x + \dfrac{1}{x}\right)$ is

(A) 2

(B) $\dfrac{1}{2}$

(C) $-\dfrac{1}{2}$

(D) -2

83. A is the son of B, B and C are sisters. D is the mother of C and E is the son of D. Which of the following statements is true?

(A) C is the grandmother of A.

(B) A and E are brothers and sisters.

(C) B and D are sisters.

(D) E is the maternal uncle of A.

84. The HCF and LCM of two numbers are 21 and 4641 respectively. If one of the numbers lies between 200 and 300, then the two numbers are

(A) 273, 357

(B) 273, 361

(C) 273, 351

(D) 273, 263

85. Before 7 years, the ratio of ages of A and B was 3 : 4. After 9 years, the ratio of their ages will be 7 : 8. The present age of B will be

(A) 16 years

(B) 19 years

(C) 28 years

(D) 23 years

86. In a garrison, there was food for 1000 soldiers for one month. After 10 days, 1000 more soldiers joined the garrison. How long would the soldiers be able to carry on with the remaining food?

(A) 10 days

(B) 15 days

(C) 20 days

(D) 25 days

87. What was the day of the week on 17th July, 1976?

(A) Wednesday

(B) Thursday

(C) Monday

(D) Saturday

88. In some code language, BOTTLE is coded as TOBELT. In the same code, NECTAR will be coded as

(A) CNERAT

(B) CENTRA

(C) CNEART

(D) CENRAT

89. If $x + \dfrac{1}{y} = 1$ and $y + \dfrac{1}{z} = 1$, then find the value of $z + \dfrac{1}{x}$.

(A) 0

(B) 1

(C) 2

(D) 4

90. The ratio between the rates of travelling of A and B is $2 : 3$ and therefore A takes 20 minutes more than the time taken by B to reach a destination. If A had walked at double the speed, how long would he have taken to cover the distance?

(A) 30 minutes

(B) 35 minutes

(C) 20 minutes

(D) 45 minutes

91. If $a * b$ gives the remainder on division of a by b, then $(18 * 4) * 4$ equals

(A) 0

(B) 1

(C) 2

(D) 3

92. If $a + b + c = 2s$, then the value of $(s-a)^2 + (s-b)^2 + (s-c)^2$ will be

(A) $s^2 + a^2 + b^2 + c^2$

(B) $a^2 + b^2 + c^2 - s^2$

(C) $s^2 - a^2 - b^2 - c^2$

(D) $4s^2 - a^2 - b^2 - c^2$

93. If the English alphabets are coded with certain numerals in such a way that the letter-block *ABCDEF* is represented by numeral 21, then in the same code, the letter-block *ACEGIK* will be represented by numeral

(A) 27

(B) 30

(C) 33

(D) 36

94. A is twice as fast as B and B is thrice as fast as C. The journey covered by C in 42 minutes will be covered by A in

(A) 14 minutes

(B) 28 minutes

(C) 7 minutes

(D) 54 minutes

95. A vehicle moves for the first 15 minutes of its journey with a uniform speed of 60 km/hour, the next 20 minutes with a uniform speed of 70 km/hour, and the last 25 minutes of its journey with a uniform speed of 80 km/hour. The average speed of the vehicle in the entire journey is

(A) less than 60 km/hour

(B) between 60 km/hour and 70 km/hour

(C) between 70 km/hour and 80 km/hour

(D) more than 80 km/hour

96. A train crosses a platform in 30 seconds travelling with a speed of 60 km/hour. If the length of the train be 200 m, then the length of the platform is

(A) 420 m

(B) 500 m

(C) 300 m

(D) 250 m

97. If $3^{2x-y} = 3^{x+y} = 3\sqrt{3}$, then the value of 3^{x-y} will be

(A) $\dfrac{1}{3\sqrt{3}}$

(B) $\sqrt{3}$

(C) $3\sqrt{3}$

(D) $\dfrac{1}{\sqrt{3}}$

98. A train of length 100 m moving with a uniform speed of 20 m per second crosses a bridge of length 1 km. If the head of the train enters the bridge at 13 : 15 hours, then the time at which the tail exits the bridge is

(A) 13 hours 16 minutes 50 seconds

(B) 13 hours 15 minutes 55 seconds

(C) 13 hours 16 minutes 55 seconds

(D) 13 hours 15 minutes 50 seconds

99. 2 men can complete a piece of work in 6 days. 2 women can complete the same piece of work in 9 days, whereas 3 children can complete the same piece of work in 8 days. 3 women and 4 children worked together for 1 day. If only men were to finish the remaining work in 1 day, how many total men would be required?

(A) 4

(B) 8

(C) 6

(D) 10

100. A bridge was to be constructed within 10 days by 15 labourers. After working for 8 days, 5 labourers left. The number of days required next by the remaining labourers to complete the work is

(A) 3 days

(B) 4 days

(C) 5 days

(D) 6 days

SPACE FOR ROUGH WORK

* * *

SPACE FOR ROUGH WORK

★ ★ ★