



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

RRB Group D 2018 Question Paper (28-Nov-2018) (Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

1. Test will auto submit when the Time is up.
2. The Test comprises of multiple choice questions (MCQ) with one correct answers.
3. The clock in the top right corner will display the remaining time available for you to complete the examination.

Navigating & Answering a Question

1. The answer will be saved automatically upon clicking on an option amongst the given choices of answer.
2. To deselect your chosen answer, click on the clear response button.
3. The marking scheme will be displayed for each question on the top right corner of the test window.

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Test

1. If $12x^2 + 8x - 15 < 0$, which of the following specifies all possible values of 'x'? (+1, -0.33)

- a. $x > \frac{5}{6}$
- b. $0 < x < 5$
- c. $x < -\frac{3}{2}$
- d. $-\frac{3}{2} < x < \frac{5}{6}$

2. Assume the given statements to be true and decide which conclusions logically follow the statement. (+1, -0.33)

Statements:

All animals are dogs. Dogs are carnivorous.

Conclusions:

- 1. Some animals are not carnivorous.
- 2. All animals are carnivorous.
- 3. All dogs are animals.

- a. Only 2 follows.
- b. Only 3 follows.
- c. None follows.
- d. Only 1 follows.

3. Cricket : Pitch :: Boxing : ____? (+1, -0.33)

- a. Court
- b. Ground

- c. Ring
 - d. Track
-

4. A force of 20 N is applied on an object and it moves with an acceleration of $(+1, -0.33)$ 2 m/s^2 . Calculate the mass of the object.

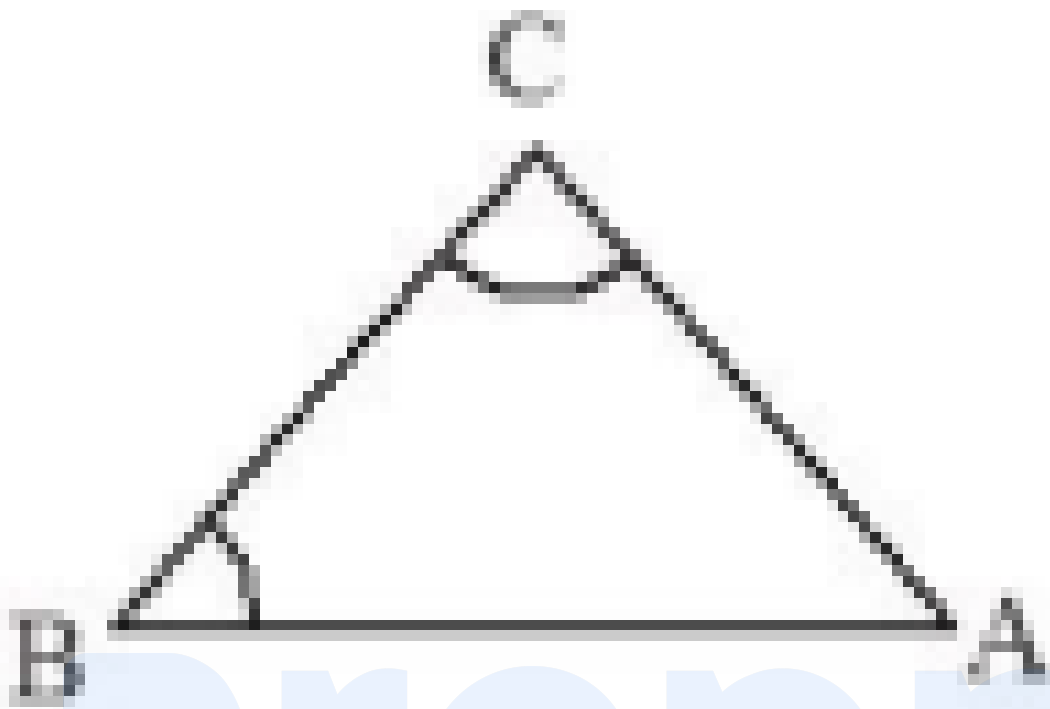
- a. 200 kg
 - b. 40 kg
 - c. 20 kg
 - d. 10 kg
-

5. Read the given question and decide which of the following statements is sufficient to answer the question. (+1, -0.33)

Question:

Find the value of angle A.

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Statements:

- I. $\angle B = 30^\circ$; $\angle C = 60^\circ$
- II. $0 < \angle A < 180^\circ$

[Image required: stem - Triangle ABC with angle A to be found]

- a. Only II is sufficient.
- b. Neither I nor II is sufficient.
- c. Both I and II are sufficient.
- d. Only I is sufficient.

6. Read the given question and decide which of the following statements is sufficient to answer the question. (+1, -0.33)

Question:

Geeta takes 2 bags for shopping. What is the total weight she can carry in

both bags?

Statements:

1. Bag 1 can carry 4 kg.
2. Bag 2 can carry one-fourth of what bag 1 can carry.

- a. Only statement 1 is sufficient.
- b. Both statements 1 and 2 are sufficient.
- c. Both statements 1 and 2 are insufficient.
- d. Only statement 2 is sufficient.

7. V is Y's mother-in-law. Z is the father of Y's husband. V is Z's _____. (+1, -0.33)

- a. Sister
- b. Mother
- c. Daughter
- d. Wife

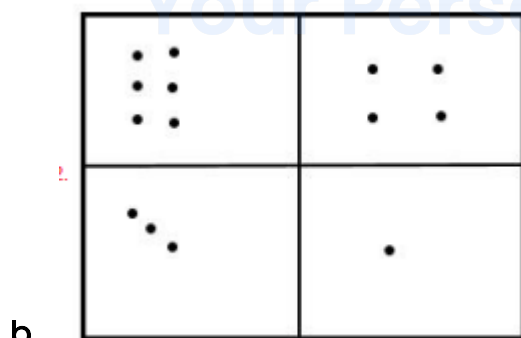
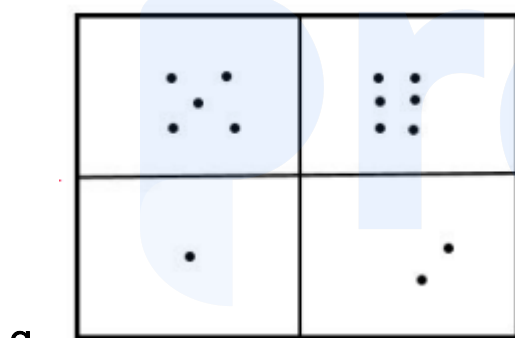
8. A small-scale business earned a profit of ₹75,000 last year. This year, the profit increased by 25%. What is the actual profit earned this year? (+1, -0.33)

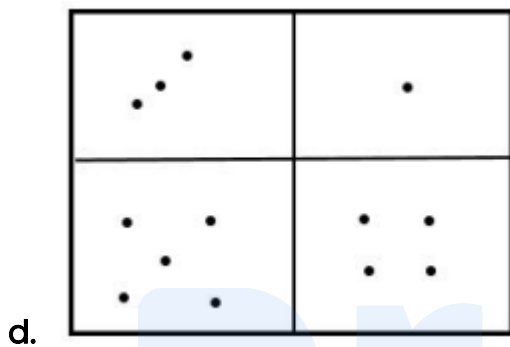
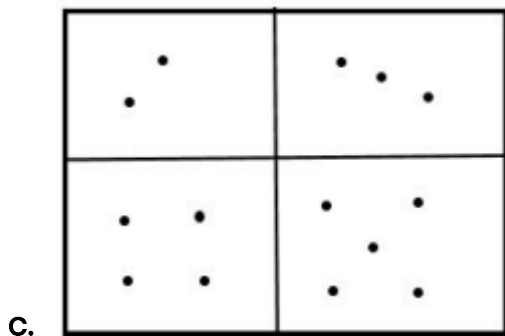
- a. ₹ 87,750
- b. ₹ 93,750
- c. ₹ 80,750
- d. ₹ 90,750

9. In a classroom 529 tables are arranged such that the number of columns equals the number of rows. How many rows of tables are there? (+1, -0.33)

- a. 27
- b. 21
- c. 19
- d. 23

10. Select the figure that is different from the other three. (+1, -0.33)





11. A herbivore requires a long small intestine to digest _____. (+1, -0.33)
- Protein
 - Carbohydrate
 - Cellulose
 - Chloroplast

12. A sum invested at 5% simple interest per annum matures to ₹689 after 6 years. What was the principal amount invested? (+1, -0.33)
- ₹ 530
 - ₹ 540
 - ₹ 560

d. ₹ 520

13. Which set is similar? (+1, -0.33)

- a. Corpus luteum - Graafian follicles
 - b. Vitamin B7 - Niacin
 - c. Sebum - Sweat
 - d. Bundle of His - Pacemaker
-

14. 28 months ago A's age was 3.5 times B's age. 4 months from now, A's age will be 2.5 times B's age. What is the sum of their current ages? (+1, -0.33)

- a. 22 years 8 months
 - b. 22 years 10 months
 - c. 23 years
 - d. 23 years 2 months
-

15. Who is the current (2018) Prime Minister of Japan? (+1, -0.33)

- a. Shinzo Abe
 - b. Vladimir Putin
 - c. Hu Jintao
 - d. Xi Jinping
-

16. What is BharatNet offering in rural India? (+1, -0.33)

- a. Social media connectivity
- b. Internet connectivity
- c. TV coverage
- d. Internet of Things (IoT) connectivity

17. The motion of a car on a crowded street is an example of _____. (+1, -0.33)

- a. non-uniform motion
- b. circular motion
- c. rotational motion
- d. uniform motion

18. A tank can be filled by tap A in 5h and tap B in 8h. Tap C can empty a full tank in 10h. If all three taps are opened simultaneously, how long will it take to fill the tank completely? (+1, -0.33)

- a. $\frac{10}{7}$ hrs
- b. $\frac{40}{9}$ hrs
- c. 5 hrs
- d. $\frac{12}{5}$ hrs

19. Identify the Indian-origin business executive who is the CEO of Nokia. (+1, -0.33)

- a. Sanjay K Jha
 - b. Rajeev Suri
 - c. Dinesh Paliwal
 - d. Ajaypal Singh Banga
-

20. A 200 m long train crosses a 300 m long bridge in 30 seconds. How long will it take to cross a man standing in the middle of a 150 m long platform? Speed is same in both cases. (+1, -0.33)

- a. 12 seconds
 - b. 10 seconds
 - c. 9 seconds
 - d. 11 seconds
-

21. The figure below shows the working of ultrasonic waves. What is this technique called? (+1, -0.33)



- a. Magnetic Resonance Imaging (MRI)
- b. CT Scan
- c. X-ray Imaging technique
- d. Ultrasonography

22. If soil is treated with mild acid, hydrangea bushes grown in this soil will have flowers of ____ colour. (+1, -0.33)

- a. brown
- b. pink
- c. white

d. blue

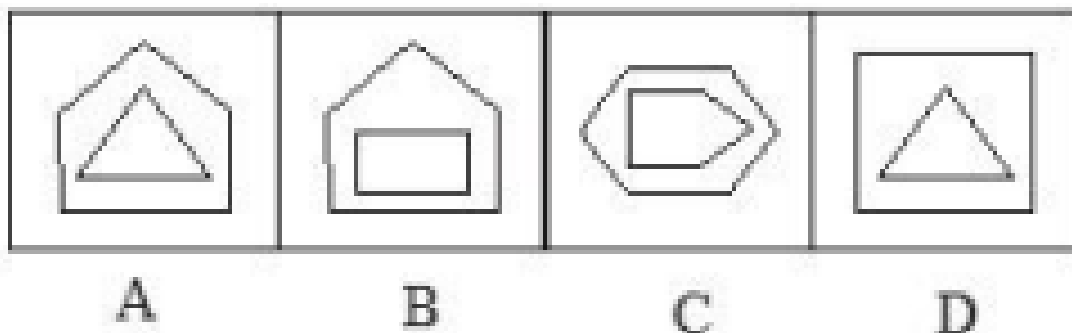
23. The complement of the zenith angle is the _____. (+1, -0.33)

- a. surface azimuth angle
- b. solar altitude angle
- c. solar azimuth angle
- d. slope

24. The Economic Survey 2017-18 was presented in Parliament on _____. (+1, -0.33)

- a. 16 February, 2018
- b. 29 January, 2018
- c. 15 February, 2018
- d. 20 January, 2018

25. Pick the odd one out. (+1, -0.33)



a. D

b. A

c. C

d. B

26. If A means '+', M means 'x', D means ' $\div$ ' and S means '-', then (+1, -0.33)
 $30 D 2 A 3 M 6 S 5 = \text{-----} ?$

a. 28

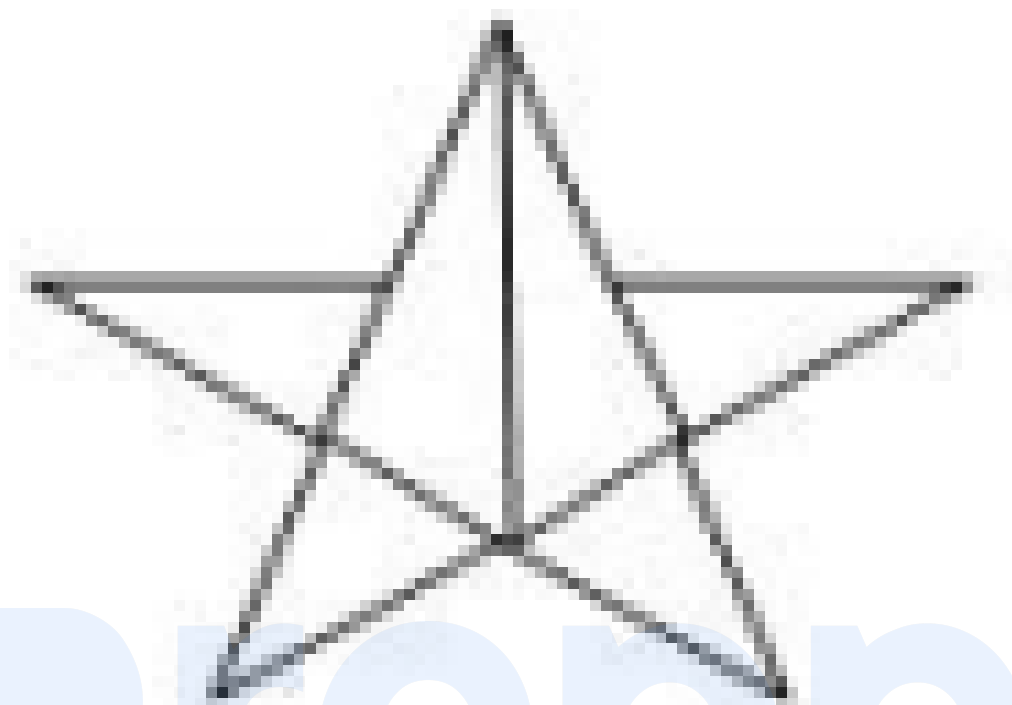
b. 58

c. 30

d. 25

27. How many triangles are there in this figure: (+1, -0.33)

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- a. 14
- b. 13
- c. 10
- d. 6

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28. The focal length of a convex lens is 25 cm. Calculate its power. (+1, -0.33)

- a. 1 D
- b. 4 D
- c. 3 D
- d. 2 D

29. If 1.25 kg potatoes and 2.015 kg tomatoes cost ₹ 35.26, what will be the average price of potatoes and tomatoes together (up to two decimal places)? (+1, -0.33)

- a. ₹ 14.04
- b. ₹ 12.32
- c. ₹ 10.80
- d. ₹ 11.95

30. The East India Company was formed in ____ through a charter signed by Queen Elizabeth I. (+1, -0.33)

- a. 1604
- b. 1600
- c. 1610
- d. 1612

31. The ratio of boys to girls appearing in an exam was 5:6. If 3,531 students took the exam, how many of them were girls? (+1, -0.33)

- a. 1926
- b. 1906
- c. 1916
- d. 1936

32. Which Bollywood actress was chosen by UNICEF as Goodwill Ambassador in 2017? (+1, -0.33)

- a. Amitabh Bachchan
- b. Madhuri Dixit
- c. Priyanka Chopra
- d. Anushka Sharma

33. What is the reflex (larger) angle formed by the hour and minute hands of a clock at 1:10:24 pm? (+1, -0.33)

- a. 332.2°
- b. 332.6°
- c. 332.4°
- d. 332.8°

34. A statement is followed by two arguments. Decide which argument is strong regarding the statement. (+1, -0.33)

Statement:

Many students are afraid of exams.

Arguments:

I. Most students lack self-confidence.

II. Most students are afraid of uncertainty with results and are tested for their ability.

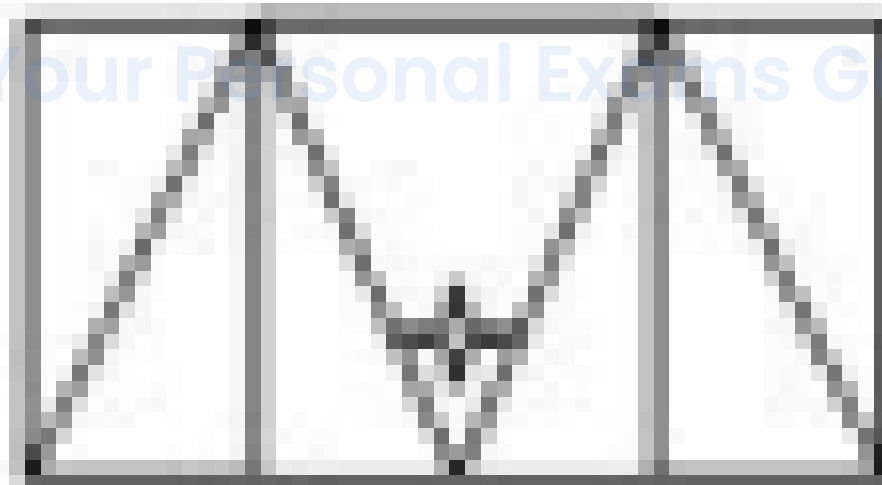
- a. Neither I nor II is strong.
- b. Only II is strong.

- c. Both I and II are strong.
- d. Only I is strong.

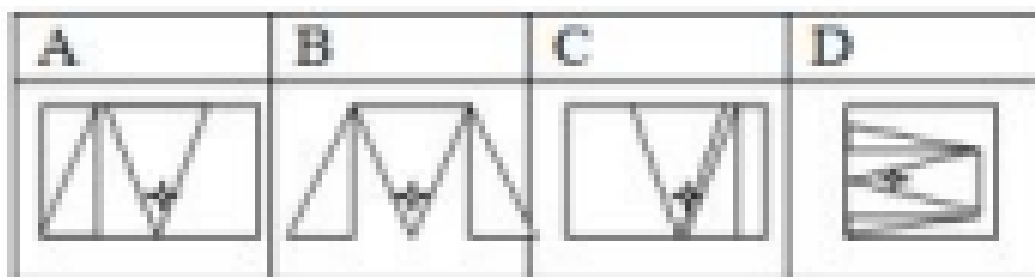
35. Which of the following is NOT a metalloid? (+1, -0.33)

- a. Chlorine
- b. Arsenic
- c. Boron
- d. Silicon

36. Which of the following option figures is the closest match to the question figure?
Question figure: (+1, -0.33)



Option figures:



- a. D
- b. B
- c. A
- d. C

37. What is the sum of the face value and place value of 6 in the number 206743? (+1, -0.33)

- a. 12
- b. 12743
- c. 6006
- d. 6749

38. If $\sqrt{0.0169} \times x = 1.3$, then $x = ?$ (+1, -0.33)

- a. 100
- b. 1
- c. 1000

d. 10

-
39. Read the given statement and the following conclusions carefully and select which of the conclusions logically follow(s) from the statement. (+1, -0.33)

Statement:

All the cans are fans. All the fans are Tins.

Conclusions:

1. All the cans are Tins.
2. All the Tins are cans
3. Some Tins are cans
4. Some fans are cans

- a. All the four follows
- b. Only (1), (2) and (3) follows
- c. Only (2), (3) and (4) follows
- d. Only (1), (3) and (4) follows

-
40. If the marked price is 30% more than the cost price and a 10% discount is offered on the marked price, find the profit percentage. (+1, -0.33)

- a. 17%
- b. $31\frac{1}{2}\%$
- c. 15%
- d. 12%

-
41. In a computer game, a maker can build a wall in 15 hours while a destroyer can completely demolish the wall in 18 hours. The maker and (+1, -0.33)

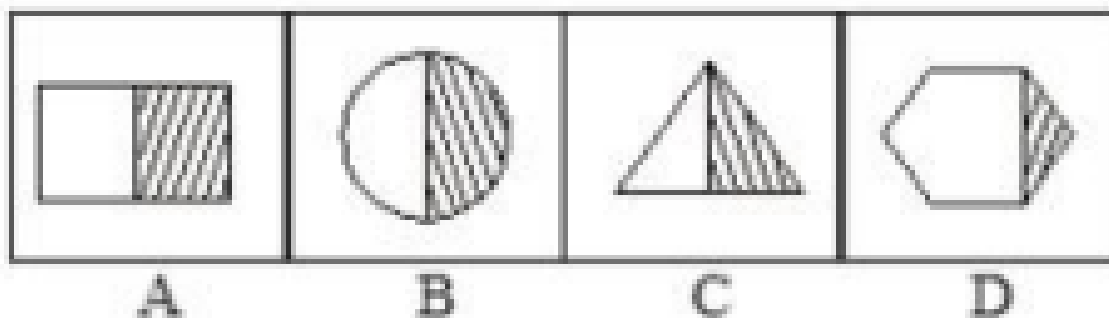
the destroyer were set to work together from the start. But after 36 hours, the destroyer was removed. How much total time was taken to build the wall?

- a. 44 hours
- b. 49 hours
- c. 40 hours
- d. 45 hours

42. Which of the following countries is NOT a neighbour of India? (+1, -0.33)

- a. Russia
- b. Nepal
- c. Bhutan
- d. Sri Lanka

43. Select the figure that is different from others in the given figures. (+1, -0.33)



- a. B
- b. D

c. A

d. C

44. The weight of an object is 980 N. If gravitational acceleration is 9.8 m/s^2 , (+1, -0.33)
find the mass of the object.

a. 10 kg

b. 100 kg

c. 8.8 kg

d. 1 kg

45. Which of the following will have an even number of factors? (+1, -0.33)

a. 25600

b. 14400

c. 22500

d. 24000

46. State the type of energy transformation during food digestion. (+1, -0.33)

a. Mechanical energy to heat energy

b. Chemical energy to light energy

c. Chemical energy to heat energy

d. Light energy to chemical energy

47. If $\sec \theta + \tan \theta = 6$, then $\sec \theta = ?$

(+1, -0.33)

- a. 3
- b. $3\frac{1}{6}$
- c. $3\frac{1}{12}$
- d. $3\frac{1}{3}$

48. In December 2017, _____ launched India's first mobile application to enable users to transact in virtual currencies.

(+1, -0.33)

- a. Pluto Exchange
- b. Bitcoins
- c. Myforexeye
- d. Coinpay

49. Sarita walks 5 km west, then turns right and walks 3 km. Then she turns right and continues walking. In which direction is she now walking?

(+1, -0.33)

- a. West
 - b. North
 - c. East
 - d. South
-

50. If 34 is divided into two parts such that thrice the first part added to twice the second part equals 80, what are the values of the two parts? (+1, -0.33)

- a. 23 and 11
 - b. 14 and 20
 - c. 19 and 15
 - d. 12 and 22
-

51. Find the missing term in the given series. (+1, -0.33)

56, 62, 70, 80, _____?

- a. 95
 - b. 92
 - c. 99
 - d. 98
-

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52. Stratified squamous epithelium is present in: (+1, -0.33)

- a. Skin
 - b. Respiratory system
 - c. Oesophagus
 - d. Kidney
-

53. Select the option that is related to the third word in the same way as the first word is to the second. (+1, -0.33)

Book : Pages :: Building : _____?

- a. Walls
 - b. Doors
 - c. Pillars
 - d. Floors
-

54. If Venkat is the son of Anant, what is Venkat to Anant's sister? (+1, -0.33)

- a. Nephew
 - b. Brother
 - c. Niece
 - d. Cousin
-

55. In plants, exchange of gases takes place through _____. (+1, -0.33)

- a. sclerenchyma
 - b. parenchyma
 - c. collenchyma
 - d. stomata
-

56. Arjun alone can complete a work in 12 days and Bhim alone in 15 days. (+1, -0.33)
With Chetan's help they together finish it in 5 days. How many days will Chetan alone take?

- a. 20 days
- b. 15 days
- c. 16 days
- d. 24 days

57. In Rutherford's atomic model alpha particles are deflected by _____. (+1, -0.33)

- a. aluminium
- b. titanium
- c. silver
- d. gold

58. Wires that transmit electricity in homes have a coating of _____. (+1, -0.33)

- a. polythene
- b. polyvinyl chloride
- c. polyethyl fluoride
- d. polystyrene chloride

59. Recently, India won the Intercontinental Football Cup by defeating which country 2-0? (+1, -0.33)

- a. Bangladesh
- b. Kenya
- c. South Africa
- d. Pakistan

60. Who is the Chairman and Managing Director of Sundaram Fasteners Limited? (+1, -0.33)

- a. Venu Srinivasan
- b. Lakshmi Venu
- c. Suresh Krishna
- d. Usha Krishna

61. Hajipur city is located in _____. (+1, -0.33)

- a. Odisha
- b. Assam
- c. Bihar
- d. Jharkhand

62. Who was selected as Best Supporting Actress in the 64th National Film Awards, 2017? (+1, -0.33)

- a. Zaira Wasim
 - b. Ramya Krishnan
 - c. Kajol Agarwal
 - d. Sonam Kapoor
-

63. If air resistance is negligible, what is the sum of the potential and kinetic energy of a freely falling body? (+1, -0.33)

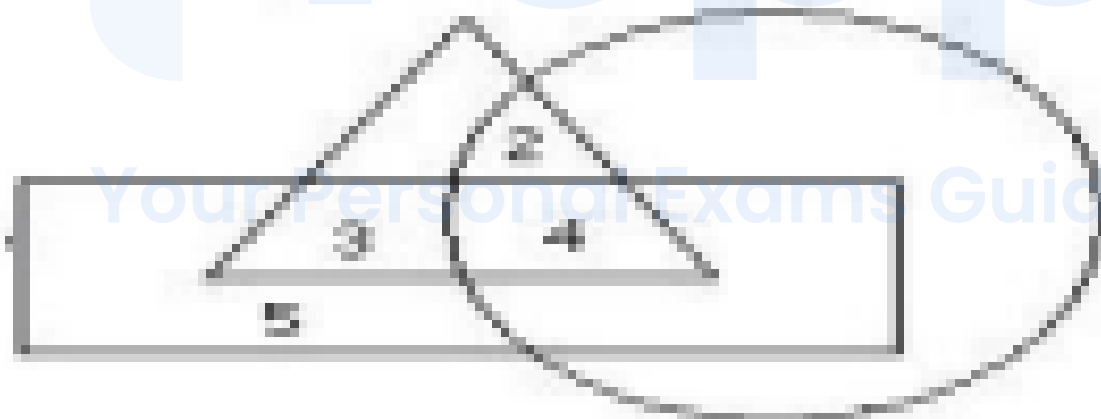
- a. constant
 - b. twice the sum of the potential energy
 - c. zero
 - d. infinity
-

64. What is the value of 273 K? (+1, -0.33)

- a. 0°C
 - b. 100 K
 - c. 10°C
 - d. 10 K
-

65. A ladder reaches a window 12 m above the ground on one side of a street. From the same point the ladder is turned to the other side and reaches a window 16 m above the street. If the ladder is 20 m long what is the width of the street? (+1, -0.33)
- a. 24 m
 - b. 32 m
 - c. 28 m
 - d. 20 m

66. In the given Venn diagram, triangle represents healthy people, rectangle represents old people and circle represents males. What is the number of healthy but old people? (+1, -0.33)



- a. 3
- b. 4
- c. 6
- d. 2

67. Elements are classified based on _____. (+1, -0.33)

- a. similarity in their properties
 - b. their valency
 - c. similarity in their atomic numbers
 - d. their atomic masses
-

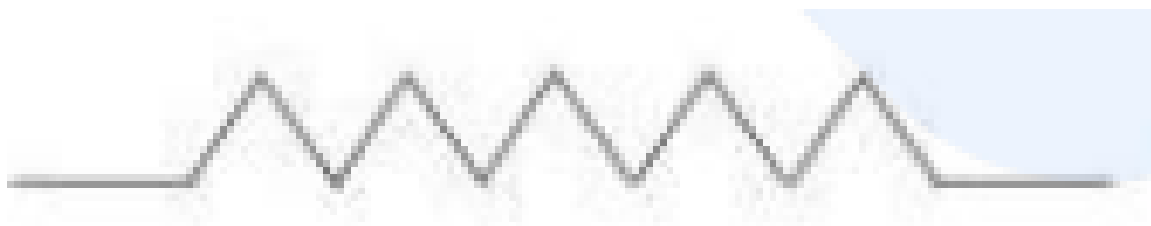
68. What is the reflex (larger) angle formed by the hour and minute hands of a clock at 2:10:15 pm? (+1, -0.33)

- a. 357.625°
 - b. 357.375°
 - c. 356.375°
 - d. 356.625°
-

69. Pinjore Garden, also known as Yadavendra Garden, is located at a distance of 20 kms from _____. (+1, -0.33)

- a. Panipat
 - b. Chandigarh
 - c. Delhi
 - d. Srinagar
-

70. In a circuit diagram, (+1, -0.33)



the given symbol is used for:

- a. A battery B
- b. a connected wire
- c. a resistor R of resistance
- d. an electric bulb

71. What is the next term in the following series?

(+1, -0.33)

DC, GF, JI, _____

- a. KL
- b. LM
- c. LN
- d. ML

72. An object is thrown vertically upwards and reaches a maximum height 'h' above the ground. On its way up, at $\frac{1}{4}$ of height 'h', the object will have _____.

(+1, -0.33)

- a. more PE and less KE

- b. only PE
 - c. less PE and more KE
 - d. equal PE and KE
-

73. Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement. (+1, -0.33)

Statement:

Ranjeet says to Geeta, 'Meena has a dog.'

Conclusions:

- I. Ranjeet is fond of keeping dogs.
- II. Geeta likes dogs.

- a. Neither conclusion I nor II follows.
 - b. Only conclusion I follows.
 - c. Only conclusion II follows.
 - d. Both conclusions follow.
-

74. The vegetative parts of a plant are _____. (+1, -0.33)

- a. root, stem and flower
 - b. leaves, stem and flower
 - c. root, leaves and flower
 - d. root, stem and leaves
-

75. Read the given question and select which argument is strong. (+1, -0.33)
Statement:

Will the Indian government support export of products which are not self-sufficient for internal use?

Arguments:

I. Yes, we need foreign currency to pay for import bills.

II. No, export of specific products will cause shortage of that product.

- a. Only argument II is strong.
 - b. Either I or II is strong.
 - c. Only argument I is strong.
 - d. Neither argument I nor II is strong.
-

76. The name 'Mohenjo-daro' means 'Mound of the Dead' in _____. (+1, -0.33)

- a. Sindhi
 - b. Hindi
 - c. Persian
 - d. Urdu
-

77. 'My Experiments with Truth' was written on the life of which of the following personalities? (+1, -0.33)

- a. Mahatma Gandhi
 - b. Jawaharlal Nehru
 - c. Amartya Sen
 - d. Dr. A. P. J. Abdul Kalam
-

78. 100 students take training in Vocal, Violin and Keyboard at a music academy. Of them 35 learn vocal and violin. 20 learn violin and keyboard and 15 learn vocal and keyboard. The number of students who learn only keyboard, only violin and only vocal is 30 each. How many students learn all three? (+1, -0.33)
- a. 10
 - b. 15
 - c. 20
 - d. 30
-
79. Find the next letter in the series. (+1, -0.33)
AW, EU, IS, MQ, -----?
- a. TV
 - b. OS
 - c. QO
 - d. QZ
-
80. Shop 1 offers 30% discount on MRP of a product. If MRP of the product is ₹500, what is the sale price? (+1, -0.33)
- a. ₹ 350
 - b. ₹ 300
 - c. ₹ 250

d. ₹ 500

81. If $\sqrt{0.0169x} = 1.3$, then $x = ?$

(+1, -0.33)

a. 1

b. 100

c. 10

d. 1000

82. If $X^2 = 841$, what is the value of X ?

(+1, -0.33)

a. 41

b. 29

c. 31

d. 39

83. Agent Vinay has sent a message in a secret language where DESK is written as #52andRIDEas. How is RISK written in his code?

(+1, -0.33)

a. % 752

b. % ## 2

c. % # 52

d. % # \$ 2

84. What is the value of $\frac{5}{8} \times \frac{3}{4} \div \frac{35}{48}$? (+1, -0.33)

- a. $\frac{9}{14}$
- b. $\frac{7}{32}$
- c. $\frac{175}{512}$
- d. $\frac{67}{214}$

85. Who is the author of the book 'Gulliver's Travels'? (+1, -0.33)

- a. Harper Lee
- b. Mark Twain
- c. Stephen King
- d. Jonathan Swift

86. Complete the following.
Force = _____ ? (+1, -0.33)

- a. mass $\times$ acceleration
- b. mass $\times$ volume
- c. mass $\times$ density
- d. mass $\times$ velocity

87. The area of cross-section of a pipe is 10.4 cm^2 and water is running through it at the rate of 54 km/hr . If the pipe is always full with 60% of the (+1, -0.33)

flow, find the volume of water (in litres) that flows through the pipe in 5 minutes?

- a. 2008
 - b. 2808
 - c. 2101
 - d. 2010
-

88. Mission Indradhanush of the Government of India is related to which of the following? (+1, -0.33)

- a. Electricity
 - b. Agriculture
 - c. Education
 - d. Health
-

89. Which of the following halogens has the highest boiling point? (+1, -0.33)

- a. Chlorine
 - b. Iodine
 - c. Bromine
 - d. Fluorine
-

90. Nirmala walks 30 metres north, then turns right and walks 40 metres. She again turns right and walks 20 metres. She again turns right and walks 40

metres. How far is she now from her original position?

- a. 10 metres
- b. 2 metres
- c. 15 metres
- d. 5 metres

-
91. Consider the statement and the following assumptions and decide which assumptions are implicit in the statement. (+1, -0.33)

Statement:

Doctors say that taking adequate quantity of Vitamin 'C' ensures the presence of antioxidants in the body.

Assumptions:

- I. Antioxidants help in cell rejuvenation.
- II. Antioxidants help in maintaining good health.

- a. Neither I nor II is implicit.
- b. Both I and II are implicit.
- c. Only I is implicit.
- d. Only II is implicit.

-
92. In this question, three statements are followed by two conclusions I and II. (+1, -0.33)

Assume the statements to be true even if they appear to differ from commonly known facts and decide which conclusions logically follow the statement.

Statement: As time passes, thinking changes, which replaces old ideas.

Conclusions:

- I. Change is the law of nature.
- II. Old ideas should be discarded as they are outdated.

- a. Only conclusion I follows.
 - b. Either I or II follows.
 - c. Neither I nor II follows.
 - d. Only conclusion II follows.
-

93. P, Q and R together complete a work in 5 days. P alone can complete it in 14 days and Q alone in 10 days. How long will R take to complete this work alone? (+1, -0.33)

- a. 21
 - b. 19
 - c. 35
 - d. 28
-

94. On a particular day 38% of all tickets were bought by students. If the number of tickets sold that day was 1350, how many students bought tickets? (+1, -0.33)

- a. 513
 - b. 494
 - c. 532
 - d. 525
-

95. Which of the following is different from the others? (+1, -0.33)

- a. CH_3COOH
- b. H_2SO_4
- c. $Mg(OH)_2$
- d. HCl

96. 1 atmosphere = _____ ? (+1, -0.33)

- a. 1.01×10^5 Pascal
- b. 1.1×10^5 Pascal
- c. 1.01×10^{-5} Pascal
- d. 1.1×10^{-5} Pascal

97. Which of the following countries will host the FIFA World Cup, 2026? (+1, -0.33)

- a. Poland
- b. Italy
- c. USA
- d. France

98. Read the given statements and conclusions carefully and choose which conclusions logically follow the statement. (+1, -0.33)

Statement:

Every start has an end.

Conclusions:

I. Summers are hot.

II. Winters are cold.

- a. Only conclusion I follows.
- b. Only conclusion II follows.
- c. Both I and II follow.
- d. Neither I nor II follows.

99. On 14 February 2017, which of the following was made the 21st district of West Bengal? (+1, -0.33)

- a. Nadia
- b. Darjeeling
- c. Kalimpong
- d. Howrah

100. The first Indian female artistic gymnast to compete in Olympics is -----: (+1, -0.33)

- a. Dipa Karmakar
- b. Pranati Nayak
- c. Aruna Budda Reddy
- d. Deepa Kar