



डिजाईन जागरुकता अभियान
DESIGN AWARENESS DRIVE

DAD



On the objectives of

National Design Policy

Govt. Of India

DAD-DESIGNED TO SUPPORT
NATIONAL DESIGN POLICY INDIA

Preparation of a platform for creative design development, design promotion and partnerships across many sectors, states and regions for integrating design with traditional and technological resources.

Global positioning and branding of Indian designs and making "Designed in India" a by-word for quality and utility in conjunction with "Made in India" and "Served in India".

UNITED COUNTRYOUTHS FEDERATION

THE CREATIVE LEADERS-INDIA2018





डिजाईन जागरुकता अभियान
DESIGN AWARENESS DRIVE

DAD/EDR/TLM/DETS/GAT2019/005

Total Marks : 100

Total Time : 2 Hrs 00 Mins



Instructions

1. Read the directions properly and carefully. Read twice, thrice till you get to understand the questions.
2. Go through details of every question most of the times answers are hidden inside the questions..
3. Think on maximum possible options at a time.
4. Marks shall be allotted on basis of observation, visualization, innovation and execution respectively.
5. Use colors where ever possible, until and unless it is restricted to do so.(at least in one question)
6. Maximum marks shall be awarded to neat, fresh and raw ideas.
7. Try to write about everything you draw or sketch.
8. Try to communicate in simple language to make it self-explanatory.

Design
Entrance
Examinations

2018-2019

DAD-Design Aptitude Test

DAD

Name:

Class:

Exam preparing for:

Address:

School/ Institution:

Contact:

D.O.B:

QUANTITATIVE ABILITY TEST

This test is designed to check the quantitative ability of a student and the knowledge to comprehend the calculations and system of numbers and the conviction in the end result.

1. The length of the bridge, which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds, is:

A. 200 m	B. 225 m
C. 245 m	D. 250 m

2. The ratio between the speeds of two trains is 7 : 8. If the second train runs 400 km in 4 hours, then the speed of the first train is:

A. 70 km/hr	B. 75 km/hr
C. 84 km/hr	D. 87.5 km/hr

3. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

A. 76 kg	B. 76.5 kg
C. 85 kg	D. Data inadequate
E. None of these	

4. If two times of the daughter's age in years is included to the mother's age, the total is 70 and if two times of the mother's age is included to the daughter's age, the total is 95. So the Mother's age is,

A. 30	B. 38
C. 40	D. 41

5. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?

A. 1	B. 14
C. 20	D. 21

6. A retailer buys a radio for Rs 225. His overhead expenses are Rs 15. He sells the radio for Rs 300. The profit percent of the retailer is

A. 10%	B. 50%
C. 25%	D. 52%

7. 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it?

A. 40 days	B. 36 days
C. 32 days	D. 34 days

8. Mr. Thomas invested an amount of Rs. 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?

A. Rs. 6400	B. Rs. 6500
C. Rs. 7200	D. Rs. 7500

9. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is:

A. 2	B. $2\frac{1}{2}$
C. 3	D. 4

10. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm³, then the weight of the pipe is:

A. 3.6 kg	B. 3.696 kg
C. 36 kg	D. 36.9 kg

11. A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do it in 2 hours. How long will B alone take to do it?

A. 8 hours	B. 10 hours
C. 12 hours	D. 24 hours

12. Which of the following is a prime number?

- A. 9 B. 8
C. 4 D. 2

13. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m³) is:

- A. 4830 B. 5120
C. 6420 D. 8960

14. Three houses are available in a locality. Three persons apply for the houses. Each applies for one house without consulting others. The probability that all the three apply for the same house is :

- A. 2/9 B. 1/9
C. 8/9 D. 7/9

15. 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

A. type : breed

B. dog : puppy

C. mark : spot

D. romaine : lettuce

E. collar : leash

Directions to Solve

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

17. Arrange the words given below in a meaningful sequence.

1. Presentation 2. Recommendation
3. Arrival 4. Discussion
5. Introduction

A. 3, 5, 1, 4, 2

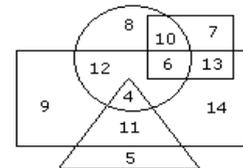
B. 3, 5, 4, 2, 1

C. 5, 3, 1, 2, 4

D. 5, 3, 4, 1, 2

Directions to Solve

In the following diagram rectangle represents men, Triangle represents educated, Circle represents urban and square represents government employees.



18. Which one of the following represents a woman who is urban as well as government employee?

A. 7

B. 13

C. 10

D. 6

Directions to Solve

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from

16. SIAMESE : CAT

ANALYTICAL ABILITY TEST

This test is designed to check the quantitative ability of a student and the knowledge to comprehend the calculations and system of numbers and the conviction in the end result.

Directions to Solve

Every one of the following questions consists of a related pair of words, followed by five pairs of words. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

16. SIAMESE : CAT

than the number of boys not participating in the sports. If the number of boys participating in the sports is 15, then how many girls are there in the class?

- A. 20
- B. 25
- C. 30
- D. Data inadequate
- E. None of these

Directions to Solve

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

31. Arrange the words given below in a meaningful sequence.
 1. Key 2. Door 3. Lock
 4. Room 5. Switch on
 A. 5, 1, 2, 4, 3 B. 4, 2, 1, 5, 3
 C. 1, 3, 2, 4, 5 D. 1, 2, 3, 5, 4

32. Arrange the words given below in a meaningful sequence.
 1. Infant 2. Old 3. Adult
 4. Adolescent 5. Child
 A. 5, 4, 3, 2, 1 B. 3, 4, 2, 1, 5
 C. 2, 3, 4, 5, 1 D. 1, 5, 4, 3, 2

Directions to Solve

The following questions are based on the information given below:

All the opposite faces of a big cube are coloured with red, black and green colours. After that is cut into 64 small equal cubes.

33. How many small cubes are there where one face is green and other one is either black or red?
 A. 28 B. 8
 C. 16 D. 24

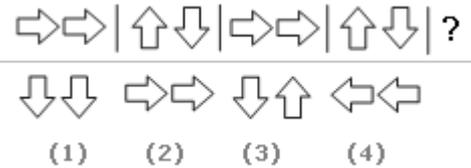
Directions to Solve

Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

34. 1, 9, 25, 49, ?, 121
 A. 64 B. 81
 C.91 D. 100
35. In the series 3, 9, 15, what will be the 21st term?
 A. 117 B. 121
 C. 123 D. 129

Directions to Solve

Look carefully at the sequence of symbols to find the pattern. Select correct pattern.

36. 

- A. 1
- B. 2
- C. 3
- D. 4

Directions to Solve

In these series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the series or end of the series.

37. SCD, TEF, UGH, ____, WKL
 A. CMN B. UJI
 C. VJ D. IJT

Directions to Solve

Each of the following questions contains a small paragraph followed by a question on it. Read each paragraph carefully and answer the question given below it.

38. Though the waste of time or the expenditure on fashions is very large, yet fashions have

43. The TSR Z hovercraft, high speed train, Sinclair scooter etc. are the symbols of
- Japanese success
 - British failure
 - British success
 - Japanese failure
44. According to the passage, prosperity in industry depends upon
- productivity
 - inventiveness
 - marketing ability
 - official patronage
45. The main theme of this passage is
- electronic industry in Japan
 - industrial comparison between Japan and Britain
 - the role of marketing efficiency in industrial prosperity
 - the importance of original research in industry

Directions to Solve

It is to progress in the human sciences that we must look to undo the evils which have resulted from a knowledge of physical world hastily and superficially acquired by population unconscious of the changes in themselves that the new knowledge has imperative. The road to a happier world than any known in the past lies open before us if atavistic destructive passions can be kept in leash while the necessary adaptations are made. Fears are inevitable in time, but hopes are equally rational and far more likely to bear good fruit. We must learn to think rather less of the dangers to be avoided than of the good that will lie within our grasp if we can believe in it and let it dominate our thoughts. Science, whatever unpleasant consequences it may have by the way, is in

its very nature a liberator, a liberator of bondage to physical nature and in time to come, a liberator from the weight of destructive passions. We are on the threshold of utter disaster or unprecedently glorious achievement. No previous age has been fraught with problems so momentous; and it is to science that we must look to for a happy future.

46. What does science liberate us from? It is liberate us from
- fears and destructive passions
 - slavery to physical nature and from passions
 - bondage to physical nature
 - idealistic hopes of glorious future
47. Should human sciences be developed because they will
- provide more knowledge of the physical world
 - make us conscious of the changing world
 - make us conscious of the changing in ourselves
 - eliminate the destruction caused by a superficial knowledge of the physical world
48. If man's bestial yearning is controlled
- the future will be tolerable
 - the future will be brighter than the present
 - the present will be brighter than the future
 - the present will become tolerable
49. Fears and hopes according to the author
- are closely linked with the life of modern man

- B. can bear fruit
 - C. can yield good results
 - D. are irrational
50. To carve out a bright future man should
- A. analyse dangers that lie ahead
 - B. try to avoid dangers
 - C. overcome fear and dangers
 - D. cultivate a positive outlook

Directions to Solve

We live at a time when history is being remade. There is unrest in every sphere of life. There are contradiction in aims, confusion of thought in everyone's life. In religion we preach the highest philosophy but are victims of the worst superstitions. We quote Plate and Sankara and believe in charms and amulets and offer sacrifices for passing examinations and winning prizes. The growth of national consciousness is retarded by communal separatism. Take the economic situation; if anyone visits, say city of Kolkata in the Christmas season and finds out the amount spent on drink and dissipation, gambling and betting he will not consider the people of the place to be by any means poor and yet the existence of slums and those who live in them under conditions hardly to be borne are a sad commentary on utter economic chaos and injustice. The mass of poverty, the extent of illiteracy, the social obstacles in the way of improvement, the tangled growth of vested interests – religious, political and economic – reveal not one problem but an infinity of problems. Many of us have an emotional apprehension of the vastness and complexity of the situation but what is required is a scientific view. There are no short cuts to their solution.

51. What is required to solve the problems faced by the country is
- A. an emotional approach
 - B. a scientific approach
 - C. rough-and-ready methods

D. nationalization of major industries

52. What is it that does not reveal that the country faces an infinity of problems?
- A. The mass of poverty and the extent of illiteracy
 - B. The social abstacles in the way of improvement
 - C. The tangled undergrowth of vested interests
 - D. The amount of money being spent on drinking and other vices
53. On visiting the city of Kolkata at Christmas, one gets the impression that the people living there are
- A. religious minded
 - B. immoral
 - C. well-to-do
 - D. poor
54. We exhibit contradictions in our aims and confusion in our thoughts when
- A. we quote Plato and Sankara and yet believe in charms and amulets
 - B. we visit the city of Kolkata in Christmas season
 - C. we believe that growth of national consciousness is retarded by communal separatism
 - D. we live amidst utter economic chaos and injustice
55. Communal separatism 1 means
- A. separation of different communities from each other
 - B. antagonism between people of different communities separately
 - C. celebration of their festivals by different communities separately
 - D. living of different communities in separate areas

Directions to Solve

Democratic societies from the earliest times have expected their governments to protect the weak against the strong. No "era of good feeling" can justify discharging the police force or giving up the idea of public control over

concentrated private wealth. On the other hand, it is obvious that a spirit of self-denial and moderation on the part of those who hold economic power will greatly soften the demand for absolute equality. Men are more interested in freedom and security than in an equal distribution of wealth. The extent to which Government must interfere with business, therefore, is not exactly measured by the extent to which economic power is concentrated into a few hands. The required degree of government interference depends mainly on whether economic powers are oppressively used, on whether economic powers are oppressively used, and on the necessity of keeping economic factors in a 'tolerable state of balance.' But with the necessity of meeting all these dangers and threats to liberty, the powers of government are unavoidably increased, whichever political party may be in office. The growth of government is a necessary result of the growth of technology and of the problems that go with the use of machines and science. Science the government in our nation, as well as in all civilized nations, must take on more powers to meet its problems, there is no way to preserve freedom except by making democracy more powerful.

56. Era of good feeling' in second sentence can mean
 A. time of prosperity
 B. time of adversity
 C. time without government
 D. time of police atrocities
57. 'Tolerable state of balance' in the last sentence of the first paragraph may mean
 A. a reasonable amount of government interference
 B. an adequate check on economic power
 C. a reasonable check on economic power
 D. a reasonable level of economic equality

58. A spirit of moderation on the part of the economically sound people would make the less-privileged
 A. unhappy with their lot
 B. clamour less for absolute equality
 C. unhappy the rich people
 D. more interested in freedom and security
59. The advent of science and technology has
 A. increased the chances of economic inequality]
 B. increased the freedom of people
 C. increased the powers of the government
 D. increased the tyranny of the political parties
60. The growth of government is necessitated
 A. to curb the accumulation of wealth in a few hands
 B. to deploy the police force wisely
 C. to monitor science and technology
 D. to make the rich and the poor happy

Directions to Solve

Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'E'. (Ignore the errors of punctuation, if any).

61. (solve as per the direction given above)
 A. While luminaries of the dance world
 B. have a dearth of opportunities to display their art
 C. upcoming dancers suffer from
 D. an unfortunate lack of exposure.
 E. No error.
62. (solve as per the direction given above)
 A. I shall be able
 B. to complete the work in
 C. stipulated time provide
 D. you do not disturb me.
 E. No error.

Directions to Solve

Each sentences below consist of a word or a phrase which is bold. It is followed by four words or phrases. Select the word or phrase which is closes to the OPPOSITE in meaning of the bold word or phrase.

63. Many people try to **resist** reforms in the society.
 A. fight B. accept
 C. welcome D. repel
64. Because of the economy drive, they very unwillingly surrendered some **superfluous** posts.
 A. important B. relevant
 C. significant D. essential

Directions to Solve

In each questions below five words are given. Find out that word, the spelling of which is WRONG. The letter of that word is the answer. If all the four words are spelt correctly, the answer is 'E', i.e., "All Correct".

65. (solve as per the direction given above)
 A. Lenient B. Nationalism
 C. Overhaul D. Transferred
 E. All correct
66. (solve as per the direction given above)
 A. One should be able for
 B. differentiate between what is
 C. desirable and
 D. what is not
 E. All correct

Directions to Solve

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

67. He said
 P : here is the cat

Q : throughout the night

R : which had been paying havoc with things

S : that ate the rat

The Proper sequence should be:

- A. PSQR B. PSRQ
 C. QPRS D. QRPS

Directions to Solve

In questions given below, a part of the sentence is italicised and underlined. Below are given alternatives to the italicised part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer.

68. This matter admits of no excuse.
 A. admits to B. admits from
 C. admits D. No
 improvement

Directions to Solve

In questions below, each passage consist of six sentences. The first and sixth sentence are given in the begining. The middle four sentences in each have been removed and jumbled up. These are labelled as P, Q, R and S. Find out the proper order for the four sentences.

69. S₁:Sun birds are among the smallest of Indian birds.
 P: Though they are functionally similar to the humming birds of the New World, they are totally unrelated.
 Q: They do eat insects too.
 R: They are also some of the most brilliantly coloured birds.
 S: sun birds feed on nectar mostly and helped in pollination.
 S₆: Our common sun birds are the purple sun bird, the glossy black species and purple rumped sun bird, the yellow and maroon species.
 The Proper sequence should be:
 A. SQPR B. RPSQ
 C. QPRS D. PSRQ

Directions to Solve

Let children learn to judge their own work. A child ...**(1)**... to talk does not learn ...**(2)**... being corrected all the time ...**(3)**... corrected too much, he will ...**(4)**... talking. He notices a thousand times a day the difference between the ...**(5)**... he uses and the language those around him use.

70. (solve as per the direction given above)
 A. stop B. halt
 C. avoid D. shun

In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence.

71. The part of government which is concerned with making of rules
 A. Court B. Tribunal
 C. Bar D. Legislature

Directions to Solve

In questions, a sentence has been given in Active / Passive Voice. Out of the four alternatives suggested, select the one which expresses the same sentence in Passive / Active Voice and mark the correct answer.

72. The teacher should have not hit the child.
 A. The child should have not been hit by the teacher.
 B. Teacher should not hit children.
 C. Hitting children should not be done by teacher.
 D. The child should not be hit.

Directions to Solve

Choose the pair of words that have a similar relationship to that between the given pair of words.

73. Liquid : litter
 A. Weight : kilogram
 B. Land : seismometer
 C. Bushel : corn
 D. Fame : television

Directions to Solve

In each of the sentences given below a word is printed in bold. Below it four choices are given. Pick up the one which is most nearly the same in meaning as the word printed in bold and can replace it without altering the meaning of the sentence.

74. Everybody likes him because he is an industrious student.
 A. energetic B. prompt
 C. excellent D. diligent

Directions to Solve

Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete.

75. She Rs 80 out of the bank every Friday.
 A. obtains B. draws
 C. pulls D. extracts
76. Leave a two inch on each page for the teacher's remarks.
 A. border B. margin
 C. blank D. gap

Directions to Solve

In each question, an incomplete statement (Stem) followed by fillers is given. Pick out the best one which can complete incomplete stem correctly and meaningfully.

77. In order to help the company attain its goal of enhancing profit, all the employees
- A. urged the management to grant paid leave
 B. appealed the management to implement new welfare schemes
 C. voluntarily offered to work overtime with lucrative compensation
 D. voluntarily offered to render additional services in lieu of nothing
 E. decided to enhance production at the cost of quality of the product

Directions to Solve

Rearrange the following six sentences in proper sequence to form a meaningful paragraph, then answer the questions given below.

1. **But, we all helped in the first few days.**
2. **Chandrapur is considered as a rural area.**
3. **Manohar was transferred to his office recently.**
4. **Initially he was not getting adjusted to the city life.**
5. **Now, Manohar is very proud of his colleagues.**
6. **Before that he was working in chandrapur branch of our office.**

78. Which of the following should be the sixth sentence ?
- A. 3 B. 4
C. 5 D. 6
E. 1

Directions to Solve

In the following questions four alternatives are given for the idiom/phrase italicised and underlined in the sentence. Choose the alternative which best expresses the meaning of idiom/phrase.

79. He is always standing up for the weak and oppressed.
- A. Boosting the claims of
B. Championing the cause of
C. Seeking help of others for
D. Moving about with
80. We should give a wide berth to bad characters.
- A. give publicity to
B. publicly condemn
C. keep away from
D. not sympathise with

Directions to Solve

In the questions below the sentences have been given in Direct/Indirect speech. From

the given alternatives, choose the one which best expresses the given sentence in Indirect/Direct speech.

81. I told him that he was not working hard.
A. I said to him, "You are not working hard."
B. I told to him, "You are not working hard."
C. I said, "You are not working hard."
D. I said to him, "He is not working hard."
Answer: Option A
82. The little girl said to her mother, "Did the sun rise in the East?"
A. The little girl said to her mother that the sun rose in the East.
B. The little girl asked her mother if the sun rose in the East.
C. The little girl said to her mother if the sun rises in the East.
D. The little girl asked her mother if the sun is in the East.

Directions to Solve

In the following questions choose the word which is the exact OPPOSITE of the given words.

83. GREGARIOUS
A. Antisocial B. Glorious
C. Horrendous D. Similar
84. HIRSUTE
A. Scaly B. Bald
C. Erudite D. Quiet

Directions to Solve

Find the correctly spelt words.

85. A. Acommodation
B. Accomodaton
C. Accommodation
D. Acomodation
86. Who was the first Indian to go into space?
A. Ravi Malhotra B. Satish
Dawan
C. Kalpana Chawla D. Rakesh Sharma

87. The author of the book 'Waiting for the Mahatma' is
 A. R.K. Narayan
 B. N.A. Palkhiwala
 C. Amrita Pritam
 D. Manohar Malgonkar
88. Misha Grewal is associated with which games/sports?
 A. Badminton B. Chess
 C. Football D. Squash
89. World Human Rights Day is observed on
 A. April 8 B. December 10
 C. December 7 D. September 5
90. The strongest bonds exist between the particles found within
 A. metamorphic rocks
 B. igneous rocks
 C. sedimentary rock
 D. all have similar strength of bonds
 Answer: Option B
91. For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having
 A. low melting point B. high resistance
 C. high melting point D. low specific heat
92. The chemical (ethyl mercaptan) added to the otherwise odourless LPG cooking gas for imparting a detectable smell to the gas is a compound of
 A. bromine B. fluorine
 C. chlorine D. sulphur
93. The oldest oil refinery in India is at
 A. Digboi, Assam
 B. Haldia, near Kolkata
 C. Koyali, near Baroda
 D. Noonmati, Assam
94. Who among the following has received a Nobel Prize in literature 1953?
 A. Pablo Neruda
 B. Derek Walcott
 C. Ernest Hemingway
 D. Winston Churchill
95. The head quarters of Sahitya Akademi is at
 A. Mumbai B. Chennai
 C. New Delhi D. Kolkata
96. Which of the following is not a member of G-15?
 A. Pakistan B. Malaysia
 C. Indonesia D. India
97. The ozone layer restricts
 A. Visible light
 B. Infrared radiation
 C. X-rays and gamma rays
 D. Ultraviolet radiation
98. Goa Shipyard Limited (GSL) was established in
 A. 1958 B. 1957
 C. 1956 D. 1955
99. 'OS' computer abbreviation usually means?
 A. Order of Significance
 B. Open Software
 C. Operating System
 D. Optical Sensor
100. 'Natya - Shastra' the main source of India's classical dances was written by
 A. Nara Muni B. Bharat Muni
 C. Abhinav Gupta D. Tandu