PREVIOUS YEAR PAPER

DSSSB TGT Maths (Female) 2021 — 13 September 2021, Shift 2

DSSSB TGT · 13 September 2021 · Shift 2

78 of the paper's 200 questions · +1 for a correct answer, −0.25 for a wrong one · 120 minutes

Left out of the original paper: 122 (any question that needs a figure, a symbol or formatting we cannot show, or whose text did not read back cleanly from the booklet).

Questions from the Delhi Subordinate Services Selection Board's paper of 13 September 2021, Shift 2. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/dsssb-tgt/previous-year-papers/dsssb-tgt-2021-maths-female-13-sep-shift-2/

General Ability

1. Select the option that is related to the third term on the same basis as the second term is related to the first term.
CEHL : BDGK :: EGJN : ?

(a) DFIM
(b) CGIM
(c) CFIM
(d) DFJM

Answer: (a)

2. Out of the given options, three are similar in a ce n manner. However, one option is NOT like the other three. Select the option which is om the rest.

(a) Nobel Prize
(b) Bharat Ratna
(c) Padma Bhushan
(d) Vir Chakra

Answer: (a)

3. Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.

(a) CFJO
(b) XAEJ
(c) SVZD
(d) LOSX

Answer: (c)

4. Complete the following letter series:
C, K, E, H, G, E, I, _

(a) G

(b) K

(c) B

(d) D

Answer: (c)

5. Find the wrong term in the given series.
1215, 1216, 1220, 1247, 1603

(a) 1216

(b) 1220

(c) 1247

(d) 1603

Answer: (d)

6. In the question one statement is given, followed by two conclusions, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statement.
Statement:
$Z < N$; $F \geq N$; $F \leq K$
Conclusions:
I. $K = N$
II. $K > Z$

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either conclusion I or II follow

(d) Both conclusion I and II follow

Answer: (b)

7. There are six persons P, Q, R, S, T, U who have different weights. Only two persons have less weight than T. R has less weight than Q but more than P. Q has a weight less than only two persons. U has more weight than S. How many persons have greater weight than R?

(a) One

(b) Two

(c) Three

(d) Four

Answer: (d)

8. Select the most logical course of action for the following scenario.
While driving the car, you hurt some one by accident. You _____.

(a) would not stop your car and will go away.

(b) would stop the car, give him first aid and then take him to the doctor.

(c) would stop the car and will start arguing with him.

(d) would stop the car, give him first aid and then leave him there.

Answer: (b)

9. Study the following information to answer the question given below:
If a person wants to apply for the Indian passport he needs certain documents.
Documents required are:
1) Birth certificate
2) Aadhar card
3) Permanent address proof for more than 10 years.
4) Last educational qualification certificate.
If some of the above condition not fulfilled then,
1a) If a person does not have Birth certificate, then he must attach his 10th class certificate.
2a) If a person does not have Aadhar card, his passport will not be processed.
3a) If a person does not have permanent address proof then his parents passport should be attached and then his passport will be processed but will take 2 months extra time to issue the passport.
4) If 1, 2, and 3 not fulfilled and also he failed to show 1a), 2a), and 3a) his passport process will be rejected.
Sumit want to go abroad for further studies. He applied for Indian passport. He attached his parents Indian passports with his passport application since his father working in a private sector, they do not live in a city for more than 4 years. And for his birth certificate, he attached his 10th mark sheet. He also has an Aadhar card. He attached his graduation degree with the application form.

(a) His passport will be issued on time.

(b) His passport will not be processed.

(c) It will take 2 months extra to issue the passport.

(d) His passport will be rejected.

Answer: (c)

10. Find the missing number in the given series:
1, 3126, 3751, 3876, _, 3906

(a) 3901

(b) 3903

(c) 3905

(d) 3899

Answer: (a)

12. How many such pairs of letters are there in the word 'PROMOTION', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet ?

(a) One

(b) Two

(c) Three

(d) Four

Answer: (c)

13. At a family gathering, there are 6 members present - A, B, C, D, E, and F. C is the daughter of A, and her brother is D. F is the only child of E, and E is married to C. B is the mother of D. There are two couples present at the gathering. D's both parents are present in the gathering. There are four males in the family.
How is A related to F?

(a) Paternal grandfather
(b) Maternal grandfather
(c) Paternal grandmother
(d) Maternal grandmother

Answer: (b)

14. Six girls, Kusum, Chanda, Preeti, Simran, Priya, and Aarti, get the chance to become the monitor of their class for one day as per rotation policy.
Days are from Monday to Saturday. Chanda becomes the monitor of the class four days after Preeti. One person became the monitor after Kusum but before Simran, also at least three people became monitor before Kusum. Who is the monitor of the class on Monday?

(a) Preeti
(b) Kusum
(c) Chanda
(d) Simran

Answer: (a)

15. There is a leakage at the bottom of the tank which can empty the tank in 60 hours. Pipe A can fill the tank in 10 hours while pipe B can empty the tank in 40 hours. If pipe A alone opened till 3/4th tank gets filled and then pipe B is opened. In how many hours tank gets completely filled?

(a) 89/5 hours
(b) 74/7 hours
(c) 93/7 hours
(d) 93/5 hours

Answer: (c)

General Awareness

21. Who has launched the operation Sankalp to protect Indian vessels in the Gulf region?

(a) Indian Navy
(b) Indian Army
(c) Indian Air force
(d) Central Reserve Police force

Answer: (a)

22. Which among the following organisation has successfully conducted the third long-duration hot test of liquid fuel-powered, Vikas Engine for the Gaganyaan Program?

(a) NASA(National Aeronautics and Space Administration)
(b) ISRO(Indian Space Research Organisation)
(c) JAXA(Japan Aerospace Exploration Agency)
(d) CNSA(China National Space Administration)

Answer: (b)

23. Who founded 'Brahmo Samaj'?

(a) Raja Rammohan Roy
(b) Swami Vivekananda
(c) Aurobindo Ghose
(d) Suredranath Banerjee

Answer: (a)

24. When did Gandhiji start the 'Quit India Movement'?

(a) August 1945
(b) August 1949
(c) August 1942
(d) July 1942

Answer: (c)

25. Which among the following is one of the objectiv of NITI Aayog?

(a) To share vision of national development with e State.
(b) To share vision of central oriented d nt
(c) To share vision of good international relati
(d) To share vision related to election commission

Answer: (a)

26. By which amendment act of the constitution, right to property has been taken away from Fundamental Rights?

(a) 42nd Amendment
(b) 44th Amendment
(c) 54th Amendment
(d) 55th Amendment

Answer: (b)

27. From which of the following countries, Rugby originated?

(a) India
(b) England
(c) New Zealand
(d) Australia

Answer: (b)

28. Who among the following is known as the 'Flying Sikh'?
    (a) Usain Bolt
    (b) Jesse Owens
    (c) Milkha Singh
    (d) Mo Farah
    Answer: (c)

29. From which of the following states, 'Kathakali' dance has originated?
    (a) Kerala
    (b) Maharashtra
    (c) Bihar
    (d) Uttar Pradesh
    Answer: (a)

30. According to Indian mythology, who sung Shiva Tandava Stotra?
    (a) Ravana
    (b) Kumbhkarana
    (c) Vibhishana
    (d) Tarakasura
    Answer: (a)

31. The ozone layer exists in which among the following regions of the atmosphere?
    (a) Stratosphere
    (b) Mesosphere
    (c) Thermosphere
    (d) Exosphere
    Answer: (a)

32. In which among the following cities, headquarters of 'International Union for Conservation of Nature and Natural Resources' is located?
    (a) Washington DC
    (b) Vienna
    (c) Gland
    (d) London
    Answer: (c)

33. Where is the Central office of the RBI (Reserve Bank of India)?
    (a) Kolkata
    (b) Mumbai
    (c) Pune
    (d) Delhi
    Answer: (b)

34. If Red Litmus changes to Blue, then what is the nature of the substances?
    (a) Acidic
    (b) Basic
    (c) Neutral
    (d) hydrophobic
    Answer: (b)

35. If 'B' is the radial outward velocity of galaxy, 'D' is the distance of galaxy from Earth, and 'H' is the Hubble constant. Then, B = ?
    (a) H × D
    (b) H + D
    (c) H - D
    (d) H ÷ D
    Answer: (a)

36. Who among the following has discovered Radium?
    (a) Henry Becquerel
    (b) Michael Faraday
    (c) Enrico Ferni
    (d) Marie and Pierre Curie
    Answer: (d)

37. Who has discovered X-Rays?
    (a) Roentgen
    (b) Anderson
    (c) Becquerel
    (d) Chadwick
    Answer: (a)

38. Where is the headquarter of WEF (World Economic Forum)?
    (a) Geneva
    (b) Washington DC
    (c) New York
    (d) Manila
    Answer: (a)

39. Who is the author of 'A Dangerous Place'?
    (a) D.P.Moynihan
    (b) Leo Tolstoy
    (c) Mark Twain
    (d) Lewis Carrol
    Answer: (a)

40. Who has written 'Geetanjali'?

(a) M.K.Gandhi

(b) Rabindra Nath Tagore

(c) Kalidas

(d) Vishnu Sharma

Answer: (b)

Arithmetic Ability

41. What will come in the place of question mark(?) in the following question?
54% of 700 + 25% of 616 = 39% of 1300 + ?

(a) 25

(b) 35

(c) 65

(d) 15

Answer: (a)

42. What approximate value will come in the place of question mark(?) in the following question?
497.01 + 12.97 - 55.03 = ? % of 500

(a) 19

(b) 81

(c) 91

(d) 34

Answer: (c)

43. What will come in the place of question mark(?) in the following question?
(3/7) ÷ (4/3) × (7/9) × 9 ÷ 3 = ?

(a) 0.5

(b) 1.25

(c) 1

(d) 0.75

Answer: (d)

44. Six bells commence tolling together and toll at intervals of 3, 4, 5, 6, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

(a) 30

(b) 31

(c) 15

(d) 16

Answer: (b)

45. Let N be the greatest number that will divide 1205, 4265 and 6705, leaving the same remainder in each case. Then sum of the digits in N is:

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

Answer: (b)

46. The present ages of A and B are in the ratio 7 : 9. After 'x' years the ratio of their ages becomes 4 : 5 and 'x + 6' years ago the ratio of their ages was 18 : 25. Find the sum of their ages after 'x' years.

(a) 126 years
(b) 120 years
(c) 130 years
(d) 136 years

Answer: (a)

47. The sum of the ages of Sourav, Gourav and Vaskar is 102 years. The ratio of their ages 12 years ago 1 : 2 : 3. What is the present age of Vaskar?

(a) 44 years
(b) 33 years
(c) 45 years
(d) 38 years

Answer: (c)

48. A fruit seller had some mangoes. He sells f them and still has 550 mangoes. Find the number of mangoes he initially had.

(a) 900
(b) 1000
(c) 1200
(d) 1600

Answer: (b)

49. The population of a town increased from 75,000 to 1,00,00 in a decade. The percent increase of population in a decade is:

(a) 30%
(b) 33.33%
(c) 25%
(d) 20%

Answer: (b)

50. The average of five consecutive numbers is 57. Find the difference between the highest and lowest number among these 5 numbers.

(a) 2
(b) 4
(c) 3
(d) 8

Answer: (b)

51. Aman, Bittu, Chaman and Dinesh are 4 members in a family. The age of Aman is (2/3)rd of the average age of a family. The age of Bittu is 80% of the age of Aman. The age of Dinesh is 150% more than the age of Bittu. Find the age of Aman if the difference between the age of Chaman and Dinesh is 5 years.

(a) 20 years
(b) 50 years
(c) 25 years
(d) 55 years

Answer: (c)

52. P, Q and R started a business by investing Rs. 4050, Rs. 4500 and Rs. 6000 respectively. After 6 months R withdrew Rs. 1500 while P invested Rs. 4500 more. In annual profit of Rs. 6420, the share of P will exceed that of R by:

(a) Rs. 320
(b) Rs. 220
(c) Rs. 350
(d) Rs. 420

Answer: (d)

53. The cost price of a packet milk is Rs. 30 per litre but a trader is labelling it as Rs. 40 per litre. Also he mixes 50% water and gives a 30% discount. Find the Profit Percentage of trader.

(a) 25%
(b) 40%
(c) 45%
(d) 50%

Answer: (b)

54. A trader buys goods at a 15% discount on the label price. If he wants to make a profit of 20% after allowing a discount of 40%. By what percent should his marked price be greater than the original label price?

(a) 50%
(b) 40%
(c) 60%
(d) 70%

Answer: (d)

55. If the ratio between Simple interest of 2 years and the Difference between Compound interest to simple interest of 2 years is 20 : 1. Find out the rate of interest per annum.

(a) 5%

(b) 10%

(c) 25%

(d) 12.5%

Answer: (b)

56. The slant height of a right circular cone is 5 m and its height is 4 m. Find its curved surface area.

(a) 30π sq. m

(b) 15π sq. m

(c) 20π sq. m

(d) 25π sq. m

Answer: (b)

57. A tank is filled by a pipe in 4 hours. It is observed that due to leakage the tank is filled in 5(1/3) hours. Find the time taken by leakage to drain out all the water of the tank.

(a) 12 hours

(b) 13 hours

(c) 15 hours

(d) 16 hours

Answer: (d)

58. Two trains A and B are running in opposite direc ns. Speed of A is thrice as speed of B and they cross each other in 56 seconds. If the in A sses a standing man in 54 seconds then, what is the time taken by train B to cross the same ?

(a) 54 sec

(b) 45 sec

(c) 68 sec

(d) 62 sec

Answer: (d)

General English

61. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.
This is abundantly declared in / their official documents and by / there acknowledgment representatives.

(a) This is abundantly declared in

(b) their official documents and by

(c) there acknowledgment representatives.

(d) No Error

Answer: (c)

62. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.
Pass out of an elite institution / and making a distinctive fashion / statement is a double wallop.

(a) Pass out of an elite institution

(b) and making a distinctive fashion

(c) statement is a double wallop.

(d) No Error

Answer: (a)

63. Choose the right synonym for " barbaric"

(a) Savage

(b) Barber-like

(c) Civilized

(d) Kind

Answer: (a)

64. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.
The goalie (returned), with head bowed in contrition, as the ref showed him the yellow card.

(a) retrenched

(b) went back

(c) retreated

(d) No correction required

Answer: (c)

65. Fill in the blank with the most appropriate choice.
Beneath the postmodern gloss of its bright shiny surfaces lies a cleverly _____ core of rational modernity

(a) blemished

(b) beseeched

(c) disguised

(d) jilted

Answer: (c)

66. The sentences below are not complete. There are four options for each question. Choose the best word to complete the sentence.
A decent living politician is one who is not actively corrupt, rude, _____, vile or idiotic.

(a) obnoxious

(b) pleasant

(c) delightful

(d) amiable

Answer: (a)

67. Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.
Mandarin; simplified Chinese:
P. 'speech of officials' is a group of Sinitic
Q. which includes the Beijing dialect, the basis
R. (Chinese) language natively spoken across
S. most of northern and southwestern China
of the phonology of Standard Chinese.

(a) QPSR

(b) SQRP

(c) SQPR

(d) PRSQ

Answer: (d)

68. The question below consist of a set of labelled sentences. Out of four options given, select the most logical order of the sentences which form a paragraph.
The UN was established after World War II with the aim of preventing future wars, succeeding the ineffective League of Nations.
P. The Charter was adopted on 25 June 1945 and took effect on 24 October 1945, when the UN began operations.
Q. On 25 April 1945, 50 governments met in San Francisco for a conference and started drafting the UN Charter.
R. It also ensures delivering humanitarian aid, promot[illegible] sustainable development, and upholding international law.
S. Pursuant to the Charter, the organization's objec[illegible]s include maintaining international peace and security, protecting human rights.
At its founding, the UN had 51 member states; w[illegible]he addition of South Sudan in 2011, membership is now 193, representing almost all of the world's sovereign states.

(a) SQRP

(b) QPSR

(c) PQRS

(d) SRQP

Answer: (b)

69. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.

(a) SEVENTIETH

(b) SEVENTEITH

(c) SEVENTETH

(d) SEVENTITH

Answer: (a)

70. Select the word that is similar in meaning (SYNONYM) to the word given below.
INSULAR

(a) PENINSULAR

(b) CONTINENT

(c) UNBIASED

(d) DETACHED

Answer: (d)

71. Select the word that is similar in meaning (SYNONYM) to the word given below.
SALACIOUS

(a) MORAL

(b) OBSCENE

(c) CLEAN

(d) CONSPIRACY

Answer: (b)

72. Select the word that is opposite in meaning (ANTONYM) to the word given below.
PASSIVE

(a) IMPATIENT

(b) APATHETIC

(c) HARMONY

(d) SLANDEROUS

Answer: (a)

73. Select the most appropriate meaning fo[illegible] w[illegible] given below.
Cache

(a) A large burial ground, especially one not in a churchyard.

(b) A large bedroom for a number of people in a school or institution.

(c) A Large container.

(d) A collection of items of the same type stored in a hidden or inaccessible place.

Answer: (d)

74. Select the most appropriate meaning of the given idiom.
Buckle down

(a) To hold your stance.

(b) To slow down

(c) To reduce weight.

(d) To start to work hard

Answer: (d)

75. Select the most appropriate meaning of the given proverb.
A word to the wise.

(a) To have a quick talk.

(b) A good piece of advice.

(c) A two minute guest speech.

(d) A wise man speaks less.

Answer: (b)

79. Karl Lagerfeld was not recognized for which of the following?

(a) Fingerless gloves

(b) Gold chains

(c) Detachable collars

(d) Signature white hair

Answer: (b)

Teaching Methodology

191. Educational realism is the belief that we should study _____, critical thinking, and the scientific method to teach students to perceive and understand reality.

(a) irrational

(b) logic

(c) fallacy

(d) incoherent

Answer: (b)

192. Constructivist theory in education is base__

(a) the idea that learn from the society

(b) the idea that teacher give

(c) the idea that people actively construct or make their own knowledge

(d) the knowledge from the book they learn

Answer: (c)

193. CIC stands for ___.

(a) Competent intern classroom

(b) Competent institutional classroom

(c) Competent interactional classroom

(d) Classroom interactional competence

Answer: (d)

194. Hard applied discipline emphasizes on which of the following?

(a) Emphasize Products and techniques

(b) Emphasize discoveries and Explanations

(c) Emphasize understanding and interpretation

(d) Emphasize Process and Protocols

Answer: (a)

195. Which pairs help participants to develop interpersonal skills, confidence, communication, and assertiveness?

(a) Male
(b) Female
(c) Mix gender
(d) Transgender

Answer: (c)

196. Which colour is regarded as masculine?

(a) Red
(b) Blue
(c) Pink
(d) Grey

Answer: (b)

197. From following which is not a type of Blog?

(a) Personal blog
(b) Group blog
(c) Micro blog
(d) Social blog

Answer: (d)

198. Which one is not a part of Organisation and Inte tion of Learning Experiences and Content?

(a) Available learning situations in school
(b) Principles of teachers
(c) Inputs for effective classroom interaction
(d) Developmental level of learning

Answer: (b)

199. _____ is the major means of learning.

(a) Practice
(b) Writing
(c) Reading
(d) Experience

Answer: (d)

200. In 2009 which Shiksha Abhiyan was launched ?

(a) The Rashtriya Madhyamik
(b) The Prabhakar Madhyamik
(c) The Secondary Section
(d) The primary Section

Answer: (a)

Answer key

Answer key from the Delhi Subordinate Services Selection Board's official answer key for this sitting. "—" means the key gave none.

General Ability

1	**(a)**	2	**(a)**	3	**(c)**	4	**(c)**	5	**(d)**	6	**(b)**	7	**(d)**	8	**(b)**
9	**(c)**	10	**(a)**	12	**(c)**	13	**(b)**	14	**(a)**	15	**(c)**				

General Awareness

21	**(a)**	22	**(b)**	23	**(a)**	24	**(c)**	25	**(a)**	26	**(b)**	27	**(b)**	28	**(c)**
29	**(a)**	30	**(a)**	31	**(a)**	32	**(c)**	33	**(b)**	34	**(b)**	35	**(a)**	36	**(d)**
37	**(a)**	38	**(a)**	39	**(a)**	40	**(b)**								

Arithmetic Ability

41	**(a)**	42	**(c)**	43	**(d)**	44	**(b)**	45	**(b)**	46	**(a)**	47	**(c)**	48	**(b)**
49	**(b)**	50	**(b)**	51	**(c)**	52	**(d)**	53	**(b)**	54	**(d)**	55	**(b)**	56	**(b)**
57	**(d)**	58	**(d)**												

General English

61	**(c)**	62	**(a)**	63	**(a)**	64	**(c)**	65	**(c)**	66	**(a)**	67	**(d)**	68	**(b)**
69	**(a)**	70	**(d)**	71	**(b)**	72	**(a)**	73	**(d)**	74	**(d)**	75	**(b)**	79	**(b)**

Teaching Methodology

191	**(b)**	192	**(c)**	193	**(d)**	194	[illegible]	195	**(c)**	196	**(b)**	197	**(d)**	198	**(b)**
199	**(d)**	200	**(a)**												