

INDIAN INSTITUTE OF TECHNOLOGY OF TIRUPATI
STAFF RECRUITMENT 202019

OBJECTIVE TEST

DATE : 5 TH JANUARY 2020	DURATION : 120 MINUTES	TOTAL MARKS : 90
POST APPLIED FOR	ADMIT CARD NUMBER (LAST FOUR DIGITS ONLY)	DEPARTMENT
JA (JUNIOR ASSISTANT)		ADMINISTRATION

INSTRUCTIONS

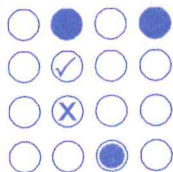
Please read the following instructions carefully :

1. Write and mark carefully THE LAST FOUR DIGITS OF YOUR Admit Card number, Post applied for, and Department Codes on the OMR Answer Sheet and sign at the appropriate place. In the absence of Admit Card Number and Signature on the OMR Answer Sheet, it may NOT be evaluated and it may be cancelled.
2. Strictly follow the instructions given by the Room Invigilator and instructions given on the Question Booklet.
3. Candidates are NOT allowed to carry any Papers, Notes, Books, Cellular phones, Scanning devices, Pagers etc. to the Examination Hall. Any candidate found using or in possession of such unauthorized material or involved in copying or impersonation or adopting unfair means or behaviors will be disqualified and may be subjected to penal action.
4. The examination is of objective type. All questions are compulsory. **There is no negative mark for wrong answer.**
5. The candidate must check that the Question Booklet has 90 objective questions with multiple choice answers. If any discrepancy is found, report to the Invigilator immediately, so that the Question Booklet may be replaced.
6. Each objective question is followed by four answers in which one is correct. Your task is to choose the correct answer and mark your Answer on the OMR Answer Sheet, NOT on the Question Booklet.
7. Completely darken the CIRCLE so that the alphabet inside the CIRCLE is NOT visible. Darken only one circle for each answer. The CORRECT and the WRONG method of darkening the CIRCLE on the OMR answer sheet are given in the example below:

CORRECT METHOD



WRONG METHOD



8. Use blue/black ink ball point pen for darkening the circles on the OMR Answer Sheet. Do NOT use pencil.
9. Folding / wrinkling or putting any unwanted mark or damaging the OMR Answer sheet is prohibited. The candidate will be responsible for invalidation of the OMR Answer sheet for doing such deeds.
10. Use the space provided for Rough Work in the Question Booklet.
11. The OMR Answer sheet and Question Booklet will have to be submitted to the Invigilator after the examination.

10. Two diagonals of a rhombus are 72 cm and 30 cm respectively. What is its perimeter?
 A. 136 cm
 B. 156 cm
 C. 144 cm
 D. 121 cm
11. How many of the following numbers are divisible by 132?
 264, 396, 462, 792, 968, 2178, 5184, 6336
 A. 4
 B. 3
 C. 6
 D. 8
12. What is the unit digit in $(6324)^{1797} \times (615)^{316} \times (341)^{476}$?
 A. 1
 B. 2
 C. 4
 D. 0
13. $(719 \times 719 + 347 \times 347 - 719 \times 347) / (719 \times 719 \times 719 + 347 \times 347 \times 347) = ?$
 A. $1/372$
 B. $25/133$
 C. $1/1066$
 D. $5/6$
14. $[1-1/n] + [1-2/n] + [1-3/n] + \dots + [1-(n-1)/n] = ?$
 A. $(n-1)$
 B. $n/2$
 C. $(n-1)/2$
 D. $(n+1)/2$
15. The difference between a positive fraction and its reciprocal is $9/20$. Find the sum of that fraction and its reciprocal.
 A. $41/20$
 B. $17/20$
 C. $11/20$
 D. $9/20$
16. In a cricket match, five batsmen A, B, C, D and E scored an average of 36 runs. D Scored 5 more than E; E scored 8 fewer than A; B scored as many as D and E combined; and the sum of the runs scored by B and C is 107. How many runs did E score?
 A. 62
 B. 45
 C. 28
 D. 20
17. Arun took a loan of Rs. 1400 with simple interest for as many years as the rate of interest. If he paid Rs. 686 as interest at the end of the loan period, what was the rate of interest?
 A. 8%
 B. 6%
 C. 4%
 D. 7%
18. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is:
 A. 1
 B. 2
 C. 3
 D. 3.5
19. The price of 80 apples is equal to that of 120 oranges. The price of 60 apples and 75 oranges together is Rs. 1320. The total price of 25 apples and 40 oranges is
 A. Rs. 660
 B. Rs. 620
 C. Rs. 820
 D. Rs. 780

29. In this question, a statement is given followed by some conclusions. Without resolving anything yourself choose the conclusion which logically follows from the given statement.

Statement : In a class, three-fourth of the boys play football, one-half play cricket, one-fourth of those who play cricket do not play football.

- A. Two-third of the boys play only football.
 - B. One-fourth of the boys play neither cricket nor football.
 - C. One-third of the boys play neither cricket nor football.
 - D. One-eighth of the boys play neither cricket nor football.
30. In this question, a statement is followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

Statement : Population increase coupled with depleting resources is going to be the scenario of many developing countries in days to come.

Conclusions:

- I. The population of developing countries will not continue to increase in future.
- II. It will be very difficult for the governments of developing countries to provide its people decent quality of life.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either I or II follows
- D. Neither I nor II follows

Direction : Below are given sentences in active/passive voice. Out of the four alternatives suggested, select one which best expresses the same sentence in passive/active voice.

31. Who asked you to draft this letter?
- A. By who are asked to draft this letter?
 - B. By who have you been asked to draft this letter?
 - C. By whom were you asked to draft this letter?
 - D. By whom you were asked to draft this letter?
32. Could you pass the salt?
- A. Could the salt been passed?
 - B. Could the salt be passed by anyone?
 - C. Could the salt been past?
 - D. Could the salt be passed?

Direction : Choose the correct 'Question Tag' to fill in the blanks:

33. They had not gone there, _____?
- A. had they
 - B. hadn' they
 - C. no
 - D. have they

44. Dishonesty is always detrimental _____ progress in life.
 A. to B. for
 C. in D. at
45. On the eve of the Prime Minister's visit, Civil Line has been cordoned _____.
 A. off B. in
 C. for D. of
46. For want of sufficient funds your new project is likely to fall _____.
 A. out B. through
 C. under D. at
47. The two friends appear to have fallen _____ over a minor issue.
 A. down B. out
 C. into D. at
48. Take your shoes _____ when you enter my room.
 A. on B. off
 C. with D. at

Direction : Please choose the correct meaning of the idioms given in **bold** in the sentences.

49. We should give a **wide berth** to bad characters.
 A. keep away from B. give publicity to
 C. publicly condemned D. not sympathise with
50. Komal was left **high and dry** by her friends when she lost all her money.
 A. isolated B. rejected
 C. wounded D. depressed
51. His promotion is **on the cards**.
 A. due B. evident
 C. certain D. probable
52. He is in the habit of **chewing the cud**.
 A. accusing other B. forgetting things
 C. crying over spilt milk D. to muse on
53. All his schemes **ended in smoke**.
 A. came to nothing B. burnt up
 C. got on fire D. attracted everybody

Direction : Choose the alternative that best expresses the meaning of the given idiomatic phrases.

54. Pocket an insult
A. bear insult without protest B. sit over a resolution
C. not to take any action D. ignore a case
55. To lose face
A. to look angry B. to be helpless
C. to be humiliated D. to look vacant

Direction : Choose the alternative which can be substituted for the given words.

56. One who hates marriage
A. Misanthrope B. Misogamist
C. Misogynist D. Polygamist

Direction : Choose the word nearest in meaning to the **bold** word.

57. On account of the **paucity** of the funds plan remained incomplete.
A. lack B. scarcity
C. abundance D. excess
58. He tried to **alleviate** the sufferings of his neighbours.
A. abate B. dissipate
C. remove D. relieve

Direction : Select the word or the phrase which is nearest to the opposite in meaning of the **bold** word or phrase.

59. The task assigned to him was **arduous**.
A. absorbing B. good
C. plain D. easy
60. Subservient
A. eligible B. superior
C. inferior D. powerful
61. Kautilya's *Arthashastra* is a book on
A. foreign policy B. principles and practice of statecraft
C. economic relations D. duties of king
62. Who gave Vallabh Bhai Patel the title of 'Sardar'
A. M.K. Gandhi B. M.A. Jinnah
C. C.Rajagopalachari D. Jawahar Lal Nehru

63. What is a cyclone?
- A. A low pressure system with clockwise winds in the northern hemisphere.
 - B. A high pressure system with anticlock-wise winds in the northern hemisphere.
 - C. A low pressure system with anticlock-wise winds in the northern hemisphere.
 - D. A high pressure system with clockwise winds in the northern hemisphere.
64. Indian states were first organised on a linguistic basis in the year _____
- A. 1950
 - B. 1956
 - C. 1952
 - D. 1947
65. Which state has the longest coastline?
- A. Tamil Nadu
 - B. Odisha
 - C. Gujarat
 - D. Andhra Pradesh
66. Which state irrigates largest percentage of land?
- A. Punjab
 - B. Uttar Pradesh
 - C. Haryana
 - D. Tamil Nadu
67. 'Disguised unemployment' refers to
- A. Persons with no job
 - B. Unemployment among woman
 - C. More persons employed for a job which a few can accomplish
 - D. Unemployment of people above 60 years of age
68. How many languages appear on the Indian Rupee note?
- A. 16
 - B. 17
 - C. 14
 - D. 15
69. Penicillin was discovered by
- A. Jeffrey K. Huang
 - B. Novartis
 - C. Alexander Fleming
 - D. Louis Pasteur
70. A vast proportion of body's weight is made up of
- A. Water
 - B. Bones
 - C. Organs
 - D. Tissues
71. What is Solar Eclipse
- A. When moon comes in between Earth and Sun.
 - B. When Sun rays do not reach Earth.
 - C. When Sun comes in between Earth and Moon.
 - D. When Earth comes in between Moon and Sun.

72. Which one of the following countries is the highest producers of cotton
- A. China
B. India
C. Brazil
D. United States of America
73. The purity of primary gold is
- A. 22 carat
B. 32 carat
C. 24 carat
D. 36 carat
74. National Institute of Nutrition is located at
- A. Hyderabad
B. Bangalore
C. Chandigarh
D. Chennai
75. Synagogue is the place of worship of
- A. Shintoism
B. Judaism
C. Taoism
D. Zoroastrianism
76. Who is the first Chief Minister of Andhra Pradesh
- A. Chandrababu Naidu
B. Kiran Kumar Reddy
C. Neelam Sanjiva Reddy
D. Kasu Brahmananda Reddy
77. What is the capital city of Australia?
- A. Melbourne
B. Canberra
C. Sidney
D. Perth
78. Sagar Mala project is related to?
- A. Oil extraction
B. Sea route development
C. Modernization of ports
D. Fisheries development
79. Which among the following is NOT a subsidiary of RBI?
- A. NABARD
B. Bharatiya Reserve Bank Note Mudran Private Limited
C. National Housing Bank
D. SIDBI
80. _____ is the new president of Sri Lanka
- A. Ranil Rajapaksa
B. Mahendra Rajapaksa
C. Gotabaya Rajapaksa
D. Sirimavo Rajapaksa
81. Which state had launched 'e-ganna' app for farmers?
- A. Uttar Pradesh
B. Madhya Pradesh
C. Bihar
D. Gujarat

