

**INDIAN INSTITUTE OF TECHNOLOGY OF TIRUPATI
STAFF RECRUITMENT 2018**

**SCREENING TEST
JUNIOR ASSISTANT**

DATE : 14 TH OCTOBER 2018	DURATION : 120 MINUTES	TOTAL MARKS : 60
POST APPLIED FOR	ADMIT CARD NUMBER (LAST FOUR DIGITS ONLY)	DEPARTMENT
JA (Junior Assistant)		ADMINISTRATION

INSTRUCTIONS

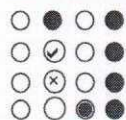
Please read the following instructions carefully:

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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 60 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.

1. FIFA World Cup 2018 won by _____
 - a. Brazil
 - b. Germany
 - c. France
 - d. Croatia

2. Baku is the capital of _____
 - a. Slovenia
 - b. Albania
 - c. Croatia
 - d. Azerbaijan

3. _____ created a world record by scoring the highest number of runs in One Day International Cricket
 - a. England
 - b. West Indies
 - c. South Africa
 - d. Australia

4. Deendayal Antyodaya Yojana – National Urban Livelihoods Mission (DAY- NULM) aims at
 - a. Training unemployed urban youth
 - b. Setting up Urban Start-ups
 - c. Setting up individual and group micro enterprises
 - d. Improving urban infrastructure

5. Central University of Andhra Pradesh is located in
- Karnool
 - Ananthapur
 - Tadepalligudem
 - Tirupati
6. World's largest combustion research centre is inaugurated recently at _____
- IISc Bangalore
 - IIT Madras
 - IIT Bombay
 - IIT Delhi
7. Who is the Chief Minister of Arunachal Pradesh?
- W. A. Sangma
 - Neiphiu Rio
 - Phema Khandu
 - Pavan Kumar Chamling
8. Kaziranga National Park is located in
- Assam
 - Karnataka
 - Uttarakhand
 - Rajasthan
9. Which of the following is named as its official tree by Andhra Pradesh government recently?
- Banyan
 - Tamarind

- c. Peepal
 - d. Neem
10. Who is the Governor of Jammu and Kashmir?
- a. S. P. Malik
 - b. N. N. Vohra
 - c. S. K. Sinha
 - d. None of the above
11. Who was the chairman of the drafting committee of the Indian Constitution?
- a. Rajendra Prasad
 - b. B. R. Ambedkar
 - c. Jawahar Lal Nehru
 - d. K. S. Ayyangar
12. Anandmath is written by
- a. Bankim Chandra Chattopadhyay
 - b. Ravindranath Tagore
 - c. Sharadindu Bandyopadhyay
 - d. Sunil Gangopadhyay
13. The pepper plant is a
- a. Tree
 - b. Vine
 - c. Bush
 - d. Shrub

14. The Chief Justice of a High Court is appointed by
- The Chief Justice of India
 - The president in consultation with the Chief Justice of India and the Governor of the State
 - The governor of the state
 - The President
15. Which planet has the maximum number of satellites?
- Jupiter
 - Mars
 - Saturn
 - Uranus
16. How many IITs are there in India?
- 21
 - 22
 - 23
 - 24
17. In computer networks, LAN stands for
- Local Area Network
 - Large Area Network
 - Linear Area Network
 - Local Admin Network
18. What is Koodankulam known for
- Uranium mining
 - Iron ore mining

- c. Thermal power plant
 - d. Nuclear power plant
19. Bihu dance form originates from
- a. West Bengal
 - b. Assam
 - c. Tripura
 - d. Punjab
20. International Court of Justice is located at
- a. Geneva
 - b. New York
 - c. The Hague
 - d. Paris
21. **Plural** of the word 'thesis' is _____.
- a. theses
 - b. thesises
 - c. thessises
 - d. thesis
22. He as well as you _____ responsible for the whole affair.
- a. is
 - b. are
 - c. am
 - d. have

23. You, who _____ my friend, should help me.
- is
 - are
 - have
 - was
24. None of the rooms _____ the same.
- was
 - were
 - will
 - are
25. The rain has changed _____ snow.
- in
 - into
 - to
 - unto
26. She will get back _____ night.
- upon
 - into
 - at
 - on
27. Identify and write the **noun phrase(s)** in the given sentence: 'How to do this is a difficult question.' _____
- How to do this
 - to do

- c. question
 - d. is a difficult question
28. Our flat is _____ the second floor of the building.
- a. with
 - b. on
 - c. at
 - d. by
29. Add the correct **question tag** to the following expression: They are not good boys,
_____?
- a. are they
 - b. aren't they
 - c. what do you think
 - d. is it
30. The word, 'ugly' is a/an _____.
- a. adjective
 - b. adverb
 - c. noun
 - d. gerund
31. The wounded leopard had to _____ down on the grass.
- a. lie
 - b. lay
 - c. lied
 - d. laid

32. The prisoner was _____.
- a. hung
 - b. hang
 - c. hanged
 - d. hanging
33. I _____ my letter last evening.
- a. have finished
 - b. finished
 - c. have been finished
 - d. finish
34. What is no longer in use is known as _____.
- a. old
 - b. obscene
 - c. obsolete
 - d. ancient
35. A place where dead bodies are kept for identification is known as _____.
- a. crematorium
 - b. graveyard
 - c. morgue
 - d. hospital
36. She dances very well, she is a true _____.
- a. artiste
 - b. artist
 - c. artisan
 - d. art-maker

37. The word 'advice' is categorized as _____ in terms of parts of speech.
- a. noun
 - b. verb
 - c. adjective
 - d. adverb
38. The passive voice of the expression, 'Ramesh has not read this book.' is _____
- a. This book has read Ramesh.
 - b. This book has been read by Ramesh.
 - c. This book has not been read by Ramesh.
 - d. No passivation of this sentence is possible
39. The idiom, 'add insult to injury', means, _____
- a. adding insult
 - b. to make a bad situation worse
 - c. to cause injury to someone
 - d. to elicit information
40. Surya has been reading this book _____ last five days.
- a. for
 - b. since
 - c. through
 - d. far

Fill the number(s)/ alphabets which fits in the following series:

41. 6, 15, 35, 77, ...

- a. 145
- b. 157
- c. 143
- d. 155

42. 100, 1, 97.5, 3.5, 92.5, 8.5, 85, 16, ...

- a. 75, 25
- b. 76, 26
- c. 76, 25
- d. 75, 26

43. AB₂F, _____, ILP₁, OR₂V, U₃XB

- a. EG₃L
- b. E₃GK
- c. E₃HM
- d. EH₃M

In the next two questions, three out of the given four numbers have a common property. Find the odd one out.

44. 242, 353, 484, 1331

- a. 242
- b. 353
- c. 484
- d. 1331

45. 1233, 2367, 3456, 4567
- a. 1233
 - b. 2367
 - c. 3456
 - d. 4567
46. In a certain code, APPLE is written as EQQNI. Then MANGO will be written as -----

- a. NEPJU
 - b. NEOHI
 - c. OEQII
 - d. OEQJI
47. Mr. X walked 14 m towards northwest and then walked towards east in a street of semi-circular shape of length "L" m. From this point, Mr. X walked 14 m towards southwest to reach his starting point. The approximate distance walked by Mr. X is _____
- a. 80 m
 - b. 60 m
 - c. 50 m
 - d. 70 m
48. Suppose there is a circular road connecting 12 stops. There is a white car at 9th stop and a black car at 4th stop. For every minute, the white car moves two stops anti-clockwise and the black car moves one stop clockwise. After how many minutes will they reach the same stop?
- a. 16
 - b. 22
 - c. Never meet
 - d. None of the above

49. A printer numbers the pages of a book starting with 1 and uses 3225 digits in all. How many pages does the book have?
- 1087
 - 1083
 - 1085
 - 1089
50. $F + S$ means that F is a father of S ; $F - C$ means that F is an uncle of C ; $M \% G$ means that M is a grandmother of G . Suppose that $F + S$, $F - C$, $M \% G$ and $C + G$ are true. Then S is a _____ of G .
- Brother
 - Cousin
 - Uncle
 - Nephew
51. A statue is being carved by a sculptor. From the original piece of marble, in the first week 35% is cut away, in the second week 20% of the remainder is cut away and in the third week 25% is chiselled away and polished to produce the finished statue weighs 97.5kg. What is the weight of the original piece of the marble?
- 225 Kg
 - 275 Kg
 - 250 Kg
 - 260 Kg
52. A six dice are thrown in the air at the same time. How many possibilities are there that at least one die will fall 6 up?
- 3031
 - 31031
 - 30031
 - 3131

53. Out of 144 invitees in a function, a quarter took their coffee with sugar only, $\frac{5}{8}$ took it with both milk and sugar, one out of every 16 guests took it with milk only and the rest took it black with neither milk nor sugar. How many guests took it black with neither milk nor sugar?
- a. 9
 - b. 8
 - c. 7
 - d. 6
54. The number of divisors of 1960.
- a. 24
 - b. 12
 - c. 18
 - d. 16
55. Elk, Mink, Mouse, Gibbon, Panther, Which creature comes next to Panther?
- a. Tortoise
 - b. Tigress
 - c. Squirrel
 - d. Platypus
56. A truck overtakes two persons who are walking in the same direction in which the truck is going, at the rate of $\frac{5}{9}$ m/sec and $\frac{10}{9}$ m/sec and passes them completely in 9 and 10 seconds respectively. The length of the truck is:
- a. 50 m
 - b. 60 m
 - c. 54 m
 - d. 45 m

In each of the following questions, a statement/group of statements is given followed by some conclusions. Without resolving anything you choose the conclusion which logically follows from the given statements).

57. **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.
- Two-third of the boys play only football.
 - One-fourth of the boys play neither cricket nor football.
 - One-third of the boys play neither cricket nor football.
 - One-eighth of the boys play neither cricket nor football.
58. **Statement:** Many business offices are located in buildings having two to eight floors. If a building has more than three floors, it has a lift.
- Seventh floor has lifts.
 - Only floors above the third floor have lifts.
 - All floors may be reached by lifts.
 - Second floors do not have lifts.

In the following questions 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.

59. **Statement:** Water supply in wards A and B of the city will be affected by about 50% on Friday because repairing work of the main lines is to be carried out.

Conclusions:

- The residents in these wards should economise on water on Friday.
 - The residents in these wards should store some water on the previous day.
- Only conclusion I follows
 - Only conclusion II follows
 - Both I and II follow
 - Neither I nor II follows

60. **Statement:** In Japan, the incidence of stomach cancer is very high, while that of bowel cancer is very low. But Japanese immigrate to Hawaii, this is reversed - the rate of bowel cancer increases but the rate of stomach cancer is reduced in the next generation. All this is related to nutrition - the diets of Japanese in Hawaii are different than those in Japan.

Conclusions:

- I. The same diet as in Hawaii should be propagated in Japan also.
 - II. Bowel cancer is less severe than stomach cancer.
-
- a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Both I and II follow
 - d. Neither I nor II follows

**INDIAN INSTITUTE OF TECHNOLOGY OF TIRUPATI
STAFF RECRUITMENT 2018**

**SCREENING TEST
JUNIOR SUPERINTENDENT**

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JS (Junior Superintendent)		ADMINISTRATION

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 - a. Saudi Arabia
 - b. UAE
 - c. Dubai
 - d. Qatar

2. India recently replaced _____ as world's 6th biggest economy
 - a. France
 - b. Germany
 - c. South Korea
 - d. Japan

3. 26th World IT Congress was held in _____
 - a. New Delhi
 - b. Hyderabad
 - c. Bangalore
 - d. Noida

4. POSHAN Abhiyan, ambitious scheme by the Government of India aims at _____
 - a. Malnutrition free India
 - b. Disease free India
 - c. Malaria free India
 - d. Accidents free India

5. DARPAN project by the Government of India wants to achieve _____
 - a. Financial inclusion of women
 - b. Financial inclusion of urban poor
 - c. Financial Inclusion of slum dwellers
 - d. Financial inclusion of rural population

6. The Government of India proposes to replace University Grants Commission (UGC) with
-
- a. Higher Education Commission of India
 - b. Higher Education Council
 - c. Higher Education Regulatory Body
 - d. Higher Education Controlling authority
7. Who is heading the committee to prepare present National Education Policy?
- a. Bibek Debroy
 - b. K. Kasthurirangan
 - c. Amithab Kant
 - d. M. S. Swaminathan
8. Who is the current President of Venezuela?
- a. Mauricio Macri
 - b. Sebastian Pinera
 - c. Nicolas Maduro
 - d. Hugo Chavez
9. Bandipur National Park is located in
- a. Karnataka
 - b. Jammu and Kashmir
 - c. Rajasthan
 - d. Himachal Pradesh
10. The book, *I Do What I Do* is written by
- a. R. K. Raghavan
 - b. Ramachandra Guha
 - c. Aravind Subramanian
 - d. Raghuram Rajan

11. Kautilya's *Arthashastra* is a book on
- Economic relations
 - Foreign policy
 - Responsibilities of the king
 - Principles of statecraft
12. *Rajataranagini* is written by
- Panini
 - Kalhana
 - Chandragupta II
 - Harisena
13. Who was the president of Indian National Congress when India got independence?
- J. L. Nehru
 - M. K. Gandhi
 - Sardar Patel
 - J. B. Kripalani
14. What is a tornado?
- A planetary wind
 - A very high ocean wave
 - A very high pressure centre
 - A very low pressure centre
15. The Comptroller and Auditor General is appointed by
- The Prime Minister
 - The President
 - Joint Parliamentary Committee (JPC)
 - Union Cabinet

16. During dehydration, the substance that is usually lost by the body is
- Sodium Chloride
 - Calcium Phosphate
 - Sugar
 - Potassium Chloride
17. The first IIT was set up in _____
- Kanpur
 - Madras
 - Kharagpur
 - Bombay
18. Pick the odd one from the following
- Windows
 - Linux
 - iOS
 - Google
19. International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) is located in
- Bhopal
 - Hyderabad
 - Chennai
 - Nagpur
20. Which country had won the highest medals in Commonwealth Games 2018?
- Australia
 - England
 - Canada
 - South Africa

21. Plural of the word 'datum' is _____.
- datums
 - datumn
 - data
 - datae
22. The great thinker and the social reformer _____ dead.
- is
 - are
 - am
 - have
23. This is one of the best novels that _____ ever been written.
- is
 - are
 - have
 - has
24. When I leave _____, I want to go to _____.
- the school/university
 - school/the university
 - the school/the university
 - school/university
25. He died _____ diarrhea.
- of
 - from
 - with
 - on

26. In the expression, 'I take pleasure in running.', the word 'running' is _____.
- a. gerund
 - b. adjective
 - c. participle
 - d. verbal adjective
27. In the expression, 'She is unwell', the word 'unwell' is _____.
- a. noun
 - b. adjective
 - c. adverb
 - d. verb
28. In the expression, 'Can a man live whose soul is dead?', the clause 'whose soul is dead' is _____.
- a. noun clause
 - b. adjective clause
 - c. adverb clause
 - d. None of the above
29. The refrigerator _____ open, the food was spoilt.
- a. being
 - b. kept
 - c. was
 - d. been

30. In the sentence, 'The town in which I live is very small.', the subordinate clause is _____?
- a. The town in which
 - b. I live is very small
 - c. in which I live
 - d. The town in which I live is very small.
31. In the sentence, 'The new master put the class into order soon.', the word, 'soon' is a/an _____.
- a. adjective
 - b. adverb
 - c. noun
 - d. gerund
32. In the sentence, 'A fierce fire, suddenly breaking out yesterday afternoon, burnt down his house.', _____ is subject, and the rest is predicate.
- a. fierce fire
 - b. A fierce fire
 - c. A fierce fire, yesterday afternoon
 - d. A fierce fire, suddenly breaking out yesterday afternoon
33. In the sentence, 'The audience applauded the clown very enthusiastically.' the word, 'very' is an _____.
- a. adjective
 - b. adverb
 - c. article
 - d. interjection

34. The police officer stopped us and asked us where _____.
- were we going
 - are we going
 - we were going
 - we are going
35. You don't know where Karen is, _____?
- don't you know
 - do you know
 - do you
 - did you
36. A person who is indifferent to pleasure or pain is called _____.
- stoic
 - fanatic
 - celibate
 - agnostic
37. One who is hard to please is called _____.
- Fastidious
 - Sadist
 - Pessimist
 - Atheist
38. The passive voice of the expression, 'No one relies on his word.' Is _____
- His word cannot be relied on.
 - His word cannot be relied by any one.
 - His word can be relied on by anyone.
 - None of the above

39. Which of these words is **closest** in meaning to: din

- a. clamour
- b. glamour
- c. stammer
- d. hammer

40. Which of these words is most nearly the **opposite** of the word – stupendous?

- a. immense
- b. abundance
- c. din
- d. minute

• Find the number(s)/ alphabets which fits in the following series:

41. 1, 2, 3, 5, 7, 10, 13, 17, 21, ..., ...

- a. 31, 26
- b. 26, 29
- c. 29, 26
- d. 26, 31

42. 1, 3, 15, 105, ...

- a. 945
- b. 545
- c. 845
- d. 245

43. 783: 59, 395: 32, 579: 44, 665: ...

- a. 49
- b. 51
- c. 41
- d. 54

44. ACT, CGZ, EKF, ____, ISR

- a. GMJ
- b. GLO
- c. GOL
- d. GOJ

45. Three out of the four numbers 1024, 1226, 1456 and 1896 have a common property. Find the odd one out.

- a. 1896
- b. 1024
- c. 1456
- d. 1226

46. In a certain language, BELL is coded as 43 and HEN is coded as 33. Then BOOK will be coded as _____

- a. 44
- b. 47
- c. 43
- d. 45

47. If WAVE =13, TAXI=8, HALT=10, LINK=9 then the value of FAIL is ____

- a. 9
- b. 12
- c. 10
- d. 13

48. There are three rolls of turf, each measuring 20 meters long by 4-meter-wide, with which one has to cover two rectangular areas of ground, one of which is 6 meters by 18 meters and the other 15.5 meters by 5.5 meters. How many square meter of turf will be left over?

- a. 45.75 sq m
- b. 42.75 sq m
- c. 46.75 sq m
- d. 47.75 sq m

49. A statue is being carved by a sculptor. The original piece of marble weighs 250kg. In the first week 35% is cut away, in the second week 20% of the remainder is cut away and in the third week 25% is chiselled away and polished to produce the finished. What is the weight of the final statue?

- a. 97.5kg
- b. 100kg
- c. 95kg
- d. 102.5kg

50. From a point P, a man walked 5Km towards north and he turned to his left and walked 3Km to reach the point Q. From point Q, he turned to his left side and walked 1Km to reach the point R. The distance between the points P and R is _____

- a. 6 km
- b. 5 km
- c. 4 km
- d. 3 km

51. Suppose there is a circular road connecting 10 stops. There is a white car at 9th stop and a black car at 4th stop. For every minute, the white car moves two stops anti-clockwise and the black car moves one stop clockwise. After how many minutes will they reach the same stop?
- 6
 - 4
 - 5
 - 9
52. Pointing to a girl in a photograph, Vimal said that, "this girl is a daughter of his mother's sister-in-law, and she is the only daughter of her parents." How is the girl's father related to Vimal?
- Brother
 - Uncle
 - Grandfather
 - Brother-in-law
53. D is a son-in-law of A and B, C is a daughter-in-law of F and E, C and D are couples, E is a mother of H, G is an only brother of C and J is a daughter of H. Then J is a _____ of D.
- Sister
 - Cousin
 - Daughter
 - Niece
54. A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in:
- $24/7$ days
 - $1/24$ day
 - $7/24$ day
 - 4 days

55. A jogger running at 2.5 m/sec alongside a railway track in 240 meters ahead of the engine of a 120 meters long train running at 12.5 m/sec in the same direction. In how much time will the train pass the jogger?

- a. 18 sec
- b. 27 sec
- c. 54 sec
- d. 36 sec

56. A car moves past a telegraph post and a bridge 264 m long in 8 seconds and 20 seconds respectively. What is the speed of the car?

- a. 69.5 km/hr
- b. 70.2 km/hr
- c. 80.5 km/hr
- d. 79.2 km/hr

- In each of the following questions, a statement/group of statements is given followed by some conclusions. Without resolving anything, choose the conclusion which logically follows from the given statements).

57. **Statement:** Most dresses in that shop are expensive.

- a. There are no cheap dresses available in that shop.
- b. Handloom dresses in that shop are cheap.
- c. There are cheap dresses also in that shop.
- d. Some dresses in that shop are expensive.

58. **Statement:** All the books, written by Prabhakar, are textbooks. Some of his books are published by ABC Publishing Company.

- a. ABC Publishing Company publishes textbooks only.
- b. Some textbooks written by Prabhakar are published by publishers other than ABC Publishing Company.
- c. ABC Publishing Company publishes some critical essays written by Prabhakar.
- d. All the books published by ABC Publishing Company have been written by Prabhakar.

- In the following questions 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.

59. **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. Neither I nor II follows
 - d. Both I and II follow

60. **Statement:** All those political prisoners who had gone to jail for reasons other than political dharnas were released on bail. Bail was not granted to persons involved in murders.

Conclusions:

- I. No political prisoner had committed murder.
- II. Some politicians were not arrested.

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