

Indian Institute of Technology Jodhpur
Written test for the post of Jr. Assistant – June 2018
Part-I

Maximum Time 60 Mts.

Max.Marks:60

Instructions:

1. Each question carries 1 mark. There is no negative marking.
 2. The answers should be in the format of (A) (B) (C) (D).
 3. No clarifications will be provided.
 4. Use of calculators and mobile phones will result into forfeiture of the candidature.
 5. Write your name, roll number and put your signature on the question paper and also on the answer sheet given at the end.
 6. Do not detach the answer sheet. You have to return the entire question booklet cum answer sheet at the end of the examination.
 7. You cannot leave the examination hall till the end of the examination.
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1. The shortest day length that occurs in the Northern hemisphere is on
(A) 21st March (B) 23rd September
(C) 22nd November (D) 22nd December
2. In India, maximum amount of rainfall is received from
(A) Western Disturbances
(B) North-east Monsoon
(C) South-west Monsoon
(D) Retreating Monsoon
3. Which set of the following biosphere reserves in India is included in the World Network of Biosphere Reserves?
(A) Gulf of Mannar, Nokrek, Panchmarhi and Simlipal
(B) Gulf of Mannar, Kanchanjunga, Nokrek and Seshachalam
(C) Nilgiri, Nokrek, Panchmarhi and Panna
(D) Nilgiri, Nokrek, Panchmarhi and Seshachalam
4. Which one of the following vitamins has a role in blood clotting?
(A) Vitamin A (B) Vitamin D
(C) Vitamin E (D) Vitamin K
5. Light year is a measure of
(A) time
(B) distance
(C) total amount of light falling on the Earth in a year
(D) average intensity of light falling on the Earth in a year

6. Which one of the following statements about microbes is *not* correct?
 (A) They are used in sewage treatment plants.
 (B) They are used in industrial fermenters for the production of beverages.
 (C) No antibiotic has been obtained from any microbe.
 (D) They are used to get many bioactive molecules for the treatment of diseases.
7. How long does light take to reach the Earth from the Sun?
 (A) About 4 minutes (B) About 8 minutes
 (C) About 24 minutes (D) About 24 hours
8. According to the Travel and Tourism Competitiveness Index (TTCI) 2017 released by the World Economic Forum, among the 136 economies across the world, India ranked
 (A) 50th (B) 40th (C) 30th (D) 20th
9. Which one of the following is the theme of the World Health Day, 2017 celebrated by the World – Health Organisation?
 (A) Diabetes (B) Food Safety
 (C) Depression: Let's Talk (D) Ageing and Health
10. The creation of the institution of Lokpal was first recommended by
 (A) Law Commission (B) Santhanam Committee
 (C) Shah Commission (D) Administrative Reforms Commission

Directions (Qn Nos.11-13): Choose the word from the given options which is nearly same in meaning to the word given.

11. Canny
 A) Obstinate B) Handsome C) Clever D) Stout
12. Ponder
 A) Think B) Evaluate C) Anticipate D) Increase
13. Germane
 A) Responsible B) Logical C) Possible D) Relevant

Directions (Qn Nos.14-15): Choose the word from the given options that is most opposite in meaning to the given word.

14. Remiss
 A) Forgetful B) Watchful C) Dutiful D) Careful

15. Indiscreet
 A) Reliable B) Honest C) Prudent D) Stupid

Directions (16-20): In these questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

16. People with recurrent migraine are always looking..... a way to end their pain.
 (A) for (B) into (C) on (D) at
17. The pedestrians, who were knocked by a car, were admitted the nearby hospital.
 (A) off, in (B) down, into (C) under, at (D) down, to
18. The nuclear scientists warn the people that a nuclear war can the whole world.
 (A) disable (B) obliterate (C) dispense with (D) frighten
19. The engineer the building.
 (A) apprised (B) appraised (C) calculated (D) appreciated
20. She thanked Vishal as she could reach the station on time his help.
 (A) since (B) for (C) with (D) in

Directions (21-25): In each of the following sentences there are two blank spaces. Below each sentence, there are four pairs of words denoted by numbers (a), (b), (c), and (d). Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make the sentence meaningfully complete.

21. With the merger, the newly formed company has come to ----- the country's ----- into a modern economy.
 (A) lead – acceptance (B) exemplify - transformation
 (C) promote- development (D) reflect - transfer
22. -----governance does not encourage respect for authority and ----- the condition of the exploited.
 (A) Frail – enhance
 (B) Lack - recognizes
 (C) Inadequate- heeds
 (D) Effectual – alleviate

23. Although businesses are less ----- than they were before liberalization some parts of the economy remain -----to restrictions.
 (A) fettered – subject (B) shunned - accessible .
 (C) ignored -vulnerable (D) restrict - expose
24. Today the city ----- free housing and hospitals and clean streets has become the ----- of the entire country.
 (A) offers - example (B) known - pride
 (C) with -envy (D) providing – challenge
25. Since its launch, the computer programme has ----- for two thirds of all software sales -----.
 (A) allowed – legally (B) plans - globally
 (C) provided- finally (D) accounted – domestically
26. Sunrise in eastern Arunachal Pradesh would be about how many hours before the sunrise in western Gujarat?
 (A) One hour (B) Two hours
 (C) Three hours (D) Four hours
27. Which one of the following States in India has the longest coastline ?
 (A)Odisha (B) Tamil Nadu
 (C) Karnataka (D) West Bengal
28. Which one of the following States in India has the largest area under forest cover ?
 (A) Maharashtra (B) Chhattisgarh
 (C) Madhya Pradesh (D) Andhra Pradesh
29. Which one of the following pairs of rivers and tributaries is *not* correctly matched ?
 (A) Godavari : Indravati (B) Ganga : Penganga
 (C) Krishna : Bhima (D) Luni : Sukri
30. Who among the following can attend the meetings of both Houses of Parliament while *not* being a member of either House?
 (A) The Solicitor General of India
 (B) The Vice-President of India
 (C) The Comptroller and Auditor General of India
 (D) The Attorney General of India

31. A, B and C together can do a piece of work in 8 days. B and C together can do the same work in 12 days. But it was only A who started to do the work but fell ill after 18 days. The remaining part was finished by B and C together in
(A) 3 days (B) 3.3 days (C) 3.6 days (D) 2.7 days
32. The ratios of milk and water in four containers of equal volumes are 2:1, 5:3, 9:7 and 3:2. The container in which the quantity of milk relative to water is minimum is :
(A) 2nd (B) 3rd (C) 4th (D) 1st
33. If $A : B = 3 : 10$ and $B : C = 2 : 7$, then $A : B : C$ is equal to:
(A) 3 : 10 : 7 (B) 3 : 5 : 7
(C) 3 : 10 : 35 (D) 3 : 2 : 7
34. A tap can fill a tank in 15 minutes, while another tap can empty the tank in 20 minutes. When the tank is already half full, both the taps are opened together. The tank will be filled up completely in the next:
(A) 32 minutes (B) 36 minutes
(C) 40 minutes (D) 30 minutes
35. 10 students started to eat biscuits. Among them, one ate 8 biscuits, 2 of them ate 6 biscuits each, 3 of them ate 4 biscuits each and 4 of them ate 2 biscuits each. The average number of biscuit each of them ate was
(A) 4 (B) 6 (C) 8 (D) 3
36. Two numbers are in the ratio 5 : 6. If 7 is added to both the numbers, their ratio becomes 6 : 7. The original numbers are :
(A) 20,24 (B) 25, 30 (C) 35, 42 (D) 15, 18
37. The ratio of the area of the equilateral triangle drawn with the side of a square as its base and the area of the equilateral triangle described on the diagonal of that square is
(A) 2:1 (B) 2:3 (C) 3:2 (D) 1: 2
38. A' sells an article, which costs him Rs. 400, to 'B' at a profit of 20%. 'B' then sells it to 'C', making a profit of 10% on the price he paid to 'A'. How much does 'C' pay to 'B' ?
(A) Rs. 528 (B) Rs. 476 (C) Rs. 532 (D) Rs. 472

39. If $2\frac{1}{2}$ is added to a number and the sum multiplied by $4\frac{1}{2}$ and 3 is added to the product and then dividing the sum by $1\frac{1}{5}$, the quotient becomes 25. What is the number ?
 (A) $4\frac{1}{2}$ (B) $2\frac{1}{2}$ (C) $3\frac{1}{2}$ (D) $5\frac{1}{2}$
40. 'A', 'B' and 'C' can do a piece of work in 20, 30 and 60 days respectively. In how many days can 'A' do the work, if he is assisted by 'B' & 'C' on every third day?
 (A) 12 days (B) 15 days (C) 20 days (D) 18 days
41. What is the area of a rhombus each side of which measures 20 cm and one of whose diagonals is 24 cm?
 (A) 284 cm^2 (B) 312 cm^2 (C) 384 cm^2 (D) 362 cm^2
42. Akash leaves home for school which is 12 km from his house. After the school, he goes to his club which is 7 km from his school. If his house, school and club all fall in a line, then what is the minimum distance he has to travel to get back home ?
 (A) 19 km (B) 7 km (C) 5 km (D) 17 km
43. If $s = 4r$ and $t = 2s$, then in terms of r , $3r + 2s + t = ?$
 (A) $17r$ (B) $11r$ (C) $19r$ (D) $9r$
44. Multimedia devices are provided in computers for
 (A) Mathematical calculations
 (B) Word processing
 (C) Technical up-gradations
 (D) Entertainment
45. Mohan moves 20 metres in east direction, turns left and moves 15 metres. Then turns right and moves 25 metres. After this, he turns right and moves 15 metres. Now how far is he from his starting point?
 (A) Zero metre (B) 40 metres
 (C) 50 metres (D) 45 metres
46. Choose the option closest in meaning to the following idiom :
 'Sitting on the fence'
 (A) Lazy
 (B) Hesitating between two opinions
 (C) Uncomfortable
 (D) Being stubborn

47. Which of the sentences below has the correct punctuations ?
(A) "Monster ! You have killed my son".
(B) England, France and Italy form an alliance.
(C) He said to his disciples "Watch and pray".
(D) "I would rather die, he exclaimed, than join the oppressors of my country"
48. Saturday was a holiday for Republic Day. 14th of the next month is again a holiday for Shivratri. What day was it on the 14th ?
(A) Thursday (B) Friday (C) Saturday (D) Monday
49. The wheel of a motor cycle, 70 cm in diameter, is making 40 revolutions in every 10 seconds. What is the speed of the motorcycle in km/hour ? .
(A) 27.68 km/hour (B) 36.24 km/hour
(C) 31.68 km/hour (D) 22.32 km/hour
50. Who is the ex-officio Chairman of the NITI Aayog?
(A) President (B) Prime Minister
(C) Home Minister (D) Finance Minister
51. According to Article 343 of the Constitution of India, English language was initially allowed to be used for all official purposes of the Union for a period of?
(A) 10 years from the commencement of Constitution
(B) 20 years from the commencement of Constitution
(C) 15 years from the commencement of Constitution
(D) 25 years from the commencement of Constitution
52. Right to Information Act, 2005 extends to the whole of India except the state of-
(A) Manipur (B) Nagaland
(C) Tripura (D) Jammu and Kashmir
53. Who will address the House at the commencement of the first session after each General elections?
(A) Vice-President of India
(B) Chief Justice of India
(C) CAG of India
(D) President of India

54. Which of the following has the effect of interruption in service?
 (A) Authorized leave of absence
 (B) Suspension followed by reinstatement or death of Government servant
 (C) Joining time while on transfer
 (D) Period of absence not covered by grant of leave and treated as '*dies non*'
55. Who administers oath to the President of India?
 (A) Vice-President of India (B) Prime Minister of India
 (C) Chief Justice of India (D) None of the above
56. The payment of fee under RTI by DD / Banker's Cheque / IPO is drawn in favour of?
 (A) Head of Office (B) Accounts Officer
 (C) Branch Officer (D) Head of the Department
57. What is the Income Tax Relief in respect of Individual having total Income up to Rs. 3.5 lakhs under Section 87-A ?
 (A) Rs.5,000 (B) Rs.2,500
 (C) Rs.3,000 (D) Rs.3,500
58. What will be the percentage of HRA for 'X', 'Y' and 'Z' class cities when DA crosses 25% ?
 (A) 30%, 20%, 10% (B) 24%, 16%, 8%
 (C) 27%, 18%, 9% (D) 28%, 14%, 7%
59. What is the revised income criteria to exclude socially advanced persons / Sections (Creamy Layer) from the purview of reservation for OBCs?
 (A) 4.5 lakhs to 6 lakhs
 (B) 6 lakhs to 8 lakhs
 (C) 1 lakhs to 2.5 lakhs
 (D) 2.5 lakhs to 4.5 lakhs
60. What is the age-limit of a permanently disabled dependent brother of a Government servant for reimbursement of Medical Expenses?
 (A) 18 years (B) 25 years
 (C) No age-limit (D) 32 years

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Qn.No.	Answer	Marks	Qn.No.	Answer	Marks
1.			36.		
2.			37.		
3.			38.		
4.			39.		
5.			40.		
6.			41.		
7.			42.		
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14.			49.		
15.			50.		
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35.					

Signature of the Candidate:
Name:

Roll No:

Signature of the Invigilator

Answers of Jr. Asst. 2018

Question Number	Answer	Question Number	Answer
1.	D	36	C
2.	C	37	D
3.	A	38	A
4.	D	39	C
5.	B	40	B
6.	C	41	C
7.	B	42	C
8.	B	43	C
9.	C	44	D
10.	D	45	D
11.	C	46	B
12.	A	47	B
13.	D	48	A
14.	D	49	C
15.	C	50	B
16.	A	51	C
17.	D	52	D
18.	B	53	D
19.	B	54	D
20.	C	55	C
21.	C	56	B
22.	D	57	B
23.	A	58	C
24.	D	59	B
25.	D	60	C
26.	B	61	
27.	C	62	
28.	B	63	
29.	B	64	
30.	D	65	
31.	A	66	
32.	B	67	
33.	C	68	
34.	D	69	
35.	A	70	