

Indian Institute of Technology Jodhpur
Written test for the post of 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. Which one of the following statements about energy is correct?
(A) Energy can be created as well as destroyed.
(B) Energy can be created but not destroyed.
(C) Energy can neither be created nor destroyed.
(D) Energy cannot be created but can be destroyed.
2. Which one of the following travelogues has given an insight on the reign of Muhammad Bin Tughlaq?
(A) Ibn Battuta's Rihla
(B) Francois Bernier's Travels in the Mogul Empire
(C) Niccolao Manucci's Storia do Mogor
(D) Tavernier's Travels in India
3. Which one of the following was not a Chishti Sufi saint?
(A) Khwaja Moinuddin
(B) Baba Fariduddin Ganj-i-Shakar
(C) Nizamuddin Auliya
(D) Shaikh Bahauddin Zakariya
4. In April 2017, India celebrated 100 years of Mahatma Gandhi's
(A) Satyagraha in Kheda
(B) Dandi March
(C) Satyagraha in Champaran
(D) Return from South Africa
5. A rainbow is produced due to which one of the following phenomena?
(A) Dispersion of light
(B) Interference of light
(C) Diffraction of light
(D) Scattering of light by atmospheric dust
6. Bats detect obstacles in their path by receiving the reflected
(A) Infrasonic waves
(B) Ultrasonic waves
(C) Radio waves
(D) Microwaves

7. Which one of the following waves does not belong to the category of the other three?
 (A) X-rays (B) Microwaves
 (C) Radio waves (D) Sound waves
8. Which one of the following was set as a target of average growth of GDP of India over the plan period 2012-17 by the Approach Paper to the Twelfth Five-Year Plan?
 (A) 7 percent (B) 8 percent
 (C) 9 percent (D) 10 percent
9. Which one of the following is not a subject that has been devolved to the Panchayat Raj Institutions by the 11th Schedule of the Constitution of India?
 (A) Non-conventional energy resources (B) Roads
 (C) Higher education (D) Libraries
10. Who among the following used the term Industrial Revolution for the first time in English to describe the changes that occurred in the British industrial development between 1760 and 1820?
 (A) Friedrich Engels (B) Eric Hobsbawm
 (C) Arnold Toynbee (D) Georges Michelet

Directions (QWn.Nos.11-15) : In each of the following sentences, an idiomatic expression or a proverb is bold. Select the alternative which best describes its use in the sentence.

11. **In all likelihood** the missing boy has run away to the forest.
 (A) with good intentions (B) there's no chance
 (C) without doubt (D) in most probability
12. The parents were completely **in the dark** concerning their daughter's plans.
 (A) ignorant about (B) ashamed of
 (C) pretending to be unaware (D) unhappy about
13. I am **in touch with** the police and they will be here in ten minutes.
 (A) in communication with (B) in close proximity with
 (C) in good terms with (D) familiar with
14. I **stumbled upon** some interesting old letters in my Grandfather's desk.
 (A) deliberately went through (B) surveyed
 (C) tripped over (D) discovered by chance

15. The secretary **made an entry** of the arrangement.
 (A) initiated discussion (B) made a record
 (C) brought notice (D) showed approval

Directions (Qn.Nos.16-20): In the given sentence there are two blank spaces. Below each sentence four pairs of words have been given. 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.

16. The incident has ----- severe damage to the ----- of the employees.
 (A) resulted-optimism (B) led-emotions
 (C) produced-conduct (D) caused-morale
17. ----- investing in technology, the company has been ----- to compete globally.
 (A) For-trying (B) Despite-gradual
 (C) While-clear (D) By-able
18. The root ----- of slow reduction in poverty is ----- of investment in agriculture.
 (A) purpose-increase (B) reason-hike
 (C) cause-lack (D) effect-incidence
19. You have unfairly ----- his success to the fact that he is well -----.
 (A) reduced-behaved (B) doubted-adjusted
 (C) excused-educated (D) attributed-connected
20. To ----- the problems of the region it is ----- to interact with the local people.
 (A) discover-necessity (B) understand-essential
 (C) research-advice (D) manage-needful

Direction (21-25): Rearrange the following five sentences (A), (B), (C), (D) & (E) in a proper sequence to form a meaningful paragraph, then answer the given questions.

- (A) The big orange truck was playing music and had bells that chimed repeatedly.
- (B) When Lisa approached the truck, the man inside it said, "Here you go, young lady, enjoy your ice-cream sandwich".
- (C) Lisa was amazed and said "What a brilliant idea this is; don't wait for your customers to come to you- go out and find them!"
- (D) Several people attracted by the bells were walking up to it and speaking to a man who stood inside it.

- (E) One day, Lisa walked to the front of her house and was surprised to see a big orange truck on the street.
21. Which of the following should be the second sentence after the rearrangement?
 (A) A (B) B (C) C (D) D
22. Which of the following should be the first sentence after the rearrangement?
 (A) A (B) B (C) E (D) D
23. Which of the following should be the fourth sentence after the rearrangement?
 (A) A (B) B (C) C (D) E
24. Which of the following should be the third sentence after the rearrangement?
 (A) A (B) B (C) C (D) D
25. Which of the following should be the last (fifth) sentence after the rearrangement?
 (A) A (B) E (C) C (D) D
26. Who among the following is the author of the book "The Indian Struggle 1920 - 1934"?
 (A) Maulana Abul Kalam (B) Jayaprakash Narayan
 (C) Subash Chandra Bose (D) Manabendra Nath Roy
27. Rudraprayag is situated at the confluence of rivers Alaknanda and
 (A) Bhagirathi (B) Mandakini
 (C) Nandakini (D) Dhauliganga
28. Arrange the following Indian cities according to their locations from west to east:
 1. Bilaspur 2. Jodhpur 3. Bhopal 4. Ranchi
 Select the correct answer using the code given below:
 (A) 3-2-1-4 (B) 2-3-1-4 (C) 4-1-2-3 (D) 2-1-3-4
29. Melanin is the natural pigment that gives colour to human skin, hair and the iris. It provides protection against
 (A) Ultraviolet radiation (B) Infrared radiation
 (C) X-ray radiation (D) Short wave radio radiation

30. SAMPADA scheme is being implemented by the Ministry of
 (A) Finance (B) Housing and Urban Affairs
 (C) Food Processing Industries (D) Earth Sciences
31. A train, 120 metre long, takes 6 seconds to pass a man, who is running in the opposite direction at the speed of 12 km/hr. The speed of the train in km/hr is
 (A) 80 (B) 60 (C) 70 (D) 50
32. The selling price of a book after 20% discount is Rs. 48. The marked price (in Rs.) of the book is :
 (A) 40 (B) 60 (C) 166.66 (D) 38.40
33. Guns are fired at intervals of 5 minutes at a certain place towards which a train is approaching. A man in the train hears two successive firing sounds at intervals of 4 minutes 49 seconds. If sound travels at 1156 ft./sec., speed of the train in miles per hour (given 1 mile = 5280 ft.) is:
 (A) 20 (B) 25 (C) 30 (D) 15
34. A dealer sold his goods at cost price, but he used 950 gm weight for a kilogram. His gain percentage due to this false measurement is:
 (A) $5\frac{3}{19}\%$ (B) $5\frac{5}{19}\%$ (C) $5\frac{7}{19}\%$ (D) $5\frac{1}{19}\%$
35. The selling price of 10 articles is equal to the cost price of 8 articles. The loss percentage is:
 (A) 20 (B) 25 (C) 30 (D) 15
36. The rate of simple interest per annum equivalent to 5 % compound interest payable half yearly is:
 (A) 5.60 % (B) 5.06% (C) 5.52% (D) 5.25%
37. In a country, 80% of the population live in Villages. 90% of village people are farmers and 70% of farmers are landless. The percentage of landless population is:
 (A) 80% (B) 60% (C) 50% (D) 50.4%
38. The marked price of a radio is Rs. 480 and the rate of discount is 15%. The amount of discount is:
 (A) Rs. 75 (B) Rs. 72 (C) Rs. 65 (D) Rs. 60

39. Three dealers A, B, C are selling similar T.V. sets. A allows successive discounts of 25% and 15%. B allows that of 10% and 30%, while C offers a single discount of 36%. Then:
 (A) A's offer is the best (B) B's offer is the best
~~(C)~~ C's offer is the best (D) All the offers are the same
40. Average of 16 numbers is 8. If 2 is added to every number, the new average will be:
 (A) 13 (B) 9 (C) 10 ~~(D)~~ 8
41. If 31% of a number is 93, the number is:
 (A) 150 ~~(B)~~ 300 (C) 350 (D) 155
42. Cars are entering a parking lot at the rate of one car every 3 seconds, while one car leaves the park every 7 seconds. The parking lot is filling up at the rate of
 (A) 6 sec (B) $5\frac{1}{4}$ sec ~~(C)~~ $5\frac{1}{3}$ sec (D) $3\frac{3}{4}$ sec
43. If $\sqrt{7}$ is approximately 2.645 and $\sqrt{8575} = n \times 2.645$, then the value of n is:
 (A) 34 ~~(B)~~ 33 (C) 35 (D) 25
44. If the lengths, breadths and heights of two rectangular parallel pipes are 20 m, 15 m, h m and 16m, 10 m, $(2h-1)$ m respectively and the volumes of two solid are the same, then the value of h is :
 (A) 6 (B) 8 (C) 12 (D) 4
45. An article is sold at 10% loss. If the selling price is Rs. 40 more, there will be a gain of 15%. The cost price of the article is :
 (A) Rs. 140 ~~(B)~~ Rs. 120 (C) Rs. 175 (D) Rs. 160
46. The Right to Information Act does not prescribe which one of the following?
 (A) Recording and communication of reasons to the applicant for refusal to provide information.
 (B) Communication of the period within which an appeal can be filed against refusal of information.
 (C) Providing the particulars of the Appellate Authority.
~~(D)~~ Providing the reasons for taking a particular decision in any matter to which information relates.

47. What is the term of office of a Chief Information Commissioner under the RTI Act?
- (A) 5 years / 65 years of age, whichever is earlier.
 - (B) 4 years / 58 years of age, whichever is earlier.
 - (C) 3 years / 60 years of age, whichever is earlier.
 - (D) 7 years / 65 years of age, whichever is earlier.
48. What is the minimum service for availing LTC?
- (A) One year of continuous service on the date of journey
 - (B) Two years of continuous service on the date of journey
 - (C) Three years of continuous service on the date of journey
 - (D) Four years of continuous service on the date of journey
49. A Government servant ceases to have any claim for leave to his credit, if he has-
- (A) Resigned to take up another appointment in Government service
 - (B) Retired
 - (C) Been dismissed
 - (D) Been reinstated
50. Up to what extent can a Government servant commute his pension?
- (A) Amount not exceeding 30%
 - (B) Amount not exceeding 40%
 - (C) Amount not exceeding 50%
 - (D) Amount not exceeding 60%
51. According to Right to Education, free and compulsory education is provided by the state to all children of the age of -
- (A) Five to ten years
 - (B) Six to fourteen years
 - (C) Seven to fifteen years
 - (D) Five to seventeen years

52. What is the permissible period for retention of Government accommodation in the event of resignation, dismissal, removal, termination, unauthorized absence without permission or compulsory retirement?
- (A) Four months on normal licence fee
 (B) One months on normal licence fee
 (C) Two months on normal licence fee
 (D) Six months on normal licence fee
53. When can a day not be marked as *dies non*?
- (A) When the official remains absent from duty without prior permission
 (B) When the official becomes a habitual late comer
 (C) When the official leaves the office without prior permission
 (D) When the official remains in office but refuses to perform duty assigned to him
54. What is the minimum balance of earned leave to be available at credit of an official after availing encashment of EL during LTC ?
- (A) 10 days
 (B) 30 days
 (C) 50 days
 (D) 60 days
55. The amount of reimbursement of CEA based on Seventh CPC orders is –
- (A) Rs.2,250 p.m.
 (B) Rs.1,000 p.m.
 (C) Rs.1,500 p.m.
 (D) Rs.2,000 p.m.
56. Which level of the officials / officers are entitled to travel by Air on LTC with effect from 1-7-2017 ?
- (A) Level 6 to Level 8 (by economy class)
 (B) Level 9 to Level 13 (by economy class)
 (C) Level 5 to Level 7 (by economy class)
 (D) None of the above
57. According to the condition of deemed abolition, an existing post kept vacant for years may be abolished immediately.
- (A) 1 year
 (B) 5 years
 (C) 2 years
 (D) 3 years
58. What is the maximum amount of Deputation Allowance in case of deputation involving change of station under Seventh CPC ?
- (A) Rs.9,000 p.m.
 (B) Rs.4,500 p.m.
 (C) Rs.7,500 p.m.
 (D) Rs.2,000 p.m.

59. What is the maximum age-limit in case of appointment by deputation / deputation (including short-term contract) in respect of Posts in the SAG level and above?
- (A) 55 years (B) 56 years
(C) 58 years (D) 54 years
60. What are the circumstance under which the vigilance clearance for obtaining Passport can be withheld by the Controlling Authority?
- (A) The Officer is under suspension
(B) When a charge-sheet has been issued and disciplinary proceeding is pending
(C) The Officer is involved in a case on charges of corruption and investigation is pending
(D) All the above

Answers of Assistant 2018

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