

Birla Industrial & Technological Museum
(National Council of Science Museums)
19A, Gurusaday Road, Kolkata: 700019

Aptitude Test for the post of Office Assistant Grade III

Date: 21.03.2022

Full Marks:-100

Time allowed:-3 hours

Name of the candidate: _____

Signature of the candidate: _____

General Instructions:-

1. All the questions are compulsory.
 2. To answer objective type questions put a (✓) mark on the correct answer in the question paper itself from the 4 alternatives given below each question.
 3. For answering Descriptive type questions, use a sheet to be given separately.
 4. Mobile phones and calculating devices will not be allowed in the examination hall.
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A. REASONING

(1 X 20=20 marks)

01.

In a certain code, DEAF is written as 3587 and FILE is written as 7465.
How is IDEAL written in that code?

- | | |
|----------|----------|
| a) 63648 | b) 63854 |
| c) 43586 | d) 43568 |

02. Paw: CAT, Hoof: (?)

- | | |
|-------------|----------|
| a) Lamb | b) Horse |
| c) Elephant | d) Tiger |

03. Cup: Lip, Bird: (?)

- | | |
|----------|-----------|
| a) Grass | b) Forest |
| c) Beak | d) Bush |

04. Which word does NOT belong with the others?

- | | |
|----------|-------------|
| a) Index | b) Glossary |
| c) Book | d) Chapter |

05. Which word is the odd man out?
- a) Trivial
c) Insignificant
- b) Unimportant
d) Important
06. 10 coaches of a passenger train have got derailed and have blocked the railway track from both ends. Courses of action:
- I. The railway authorities should immediately send men and equipment and clear the spot;
II. All the trains running in both directions should be diverted immediately via other routes
- a) If only I follows
c) If either I or II follows
- b) If both I and II follow
d) If neither I nor II follows
07. Find out the missing number from the following alternatives to complete the series;
- 7, 10, 8, 11, 9, 12, (?)
- a) 7
c) 12
- b) 10
d) 13
08. I am facing East. Turning to the right I go 20m, then turning to the left I go 20m and turning to the right I go 20m, then again turning to the right I go 40m and then again I go 40m to the right. In which direction am I from my original position?
- a) North
c) South
- b) West
d) East
09. A, B, C, D, E & F are sitting in a row. E and F are in the Centre. A and B are at the ends. C is sitting to the left of the A. Who is to the right of B?
- a) D
c) A
- b) C
d) F
10. In a row of forty students R is fifth from the right end and there are 10 students between R and D. What is the D's position from left end of the row?
- a) 26th
c) 24th
- b) 23rd
d) 25th

11. A room is called bed, bed is called window, window is called flower and flower is called cooler. On what would a man sleep?
a) Cooler
b) Flower
c) Window
d) Bed
12. Gravity is related to Pull in the same way as Magnetism is related to (?)
a) Repulsion
b) Separation
c) Attraction
d) Push
13. A and B are sisters. A is the mother of D. B has a daughter C who is married to F. G is the husband of A. How is B related to F?
a) Mother
b) Mother in Law
c) Sister in Law
d) None of the above
14. The average age of father and his son is 60.5 years. The ratio of their ages is 10:1 respectively. What is the age of the son after 11 years?
a) 11
b) 33
c) 22
d) 44
15. If $11 \times 11 = 231$, $111 \times 111 = 12210$, then $1111 \times 1111 = (?)$
a) 1211210
b) 1233210
c) 1111111
d) 1233321
16. How many such pairs of letters are there in the word PERFORATE each of which has as many letters between them in the word as in the English alphabet?
a) One
b) Two
c) Three
d) More than three
17. $(9, 7)$ $(11, 9)$ $(21, 19)$
32 40 (?)
a) 60
b) 90
c) 70
d) 80
18. 3, 8, 15, 24, ?
a) 35
b) 37
c) 53
d) 33

19. 4, 18, ?, 100, 180, 294, 448
a) 44
b) 48
c) 60
d) 50
20. Find the odd one out
a) Geometry
b) Calculus
c) Algebra
d) Thermodynamics

B. QUANTITATIVE APTITUDE

(2 X 15=30 marks)

21. In a business P invests Rs. 12,000/-. After some days Q joins the business and invests Rs. 16,000/- in it, 9 months after Q joins, P and Q get same profit. Find how many duration P's money was invested in the business.
a) 20 months
b) 11 months
c) 12 months
d) 14 months
22. At the same rate of simple interest per annum, if a principal becomes the amount of Rs. 7,100/- in 7 years and of Rs. 6,200/- in 4 years, let us determine the principal amount.
a) Rs. 4,000/-
b) Rs. 6,000/-
c) Rs. 7,000/-
d) Rs. 5,000/-
23. A horse is tied to a post by a rope. If the horse moves along circular path, always keeping the rope tight and describes 88 m when it traces 72 degree at the centre, then the length of the rope is
a) 70 m
b) 72 m
c) 22 m
d) 70.8 m
24. A single person takes 6 minutes to fill a bottle. If from 11am to 12:30 am 1845 bottles are to be filled, how many persons should be employed on this job?
a) 121
b) 127
c) 123
d) 139

25. A man received 15 % increase in his salary. If his new salary is Rs. 1,932.00, his original salary (in rupees) was
- a) Rs.1,642.20 b) Rs.1,820.00
c) Rs.1,680.00 d) Rs.1,720.60
26. A constable is 114m behind a thief. The constable runs 21 m and thief 15 m in a minute. In what time will the constable catch the thief?
- a) 38 minutes b) 19 minutes
c) 16 minutes d) 9.5 minutes
27. What annual instalment will discharge a debt of Rs. 10,866.00 in 5 years at 10% simple interest?
- a) ₹1822.00 b) ₹1833.00
c) ₹1811.00 d) ₹1800.00
28.
$$\sqrt{x + 2\sqrt{x + 2\sqrt{x + 2\sqrt{3x}}}} = x$$
- Find the value of x ?
- a) 3 b) 12
c) 9 d) 1
29. 3. Given that $16 \cot \theta = 12$, then $\frac{\sin \theta + \cos \theta}{\sin \theta - \cos \theta}$ is equal to
- a) 7 b) -7
c) -1 d) 0
30. The LCM of two numbers is 28 times their HCF. The sum of the HCF and LCM is 3451. If one of the number is 2023 then the other is
- a) 392 b) 196
c) 98 d) 588
31. $\sqrt{? + 416} = (60\% \text{ of } 920) - 110$
- a) 576 b) 666
c) 941 d) 676

39 I had asked him (a)/ how he could go out(b)/if it started raining(c)/No error(d)

- a) I had asked him
- b) how he could go out
- c) if it started raining
- d) No error

40 Another baffling change(a)/ that I noticed in him now days(b)/is that he avoids speaking to me(c)/No error(d)

- a) Another baffling change
- b) that I noticed in him now days
- c) is that he avoids speaking to me
- d) No error

In the following questions, sentences are given in blanks to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

41 The fruit was juice and

- a) Succulent
- b) Succinct
- c) Sufficient
- d) None of these

42 A person suffering from an uncontrollable desire to steal is known as

- a) Necrophobic
- b) Necromaniac
- c) Kleptomaniac
- d) Claustrophobic

43 I need anote.

- a) Five-hundred rupees
- b) Five-hundred rupee
- c) Five-hundreds rupees
- d) Five-hundreds rupee

44 Thedoor awakened the dog.

- a) creaking
- b) old
- c) waving
- d) none of these

45 He talked to his horse.....the horse could understand his grief.

- a) as though
- b) with a feeling that
- c) feeling that
- d) assuming

In the following questions, out of four alternatives choose the one which best expresses the meaning of the given word.

46 Happy

- a) Cheery
- b) Jovial
- c) Merry
- d) All of the above

47 Enthusiastic

- a) Ecstatic
- c) Apathetic

- b) Melancholy
- d) Lethargic

48 Confuse

- a) Bemuse
- c) Perplex

- b) Baffle
- d) All of the above

In the following questions, choose the word opposite in meaning to the given word.

49 Lavish

- a) Sumptuous
- c) Meagre

- b) Luxurious
- d) Lush

50 Fickle

- a) Capricious
- c) Stable

- b) Reasonable
- d) Stoic

51 Request

- a) Appeal
- c) Refusal

- b) Invocation
- d) None of these

In the following questions, choose the word which is correctly spelt.

52 a) Vitaimin

b) Vetamin

c) Vitamin

d) Vitamean

53 a) Conceive

b) Perceive

c) Misconceive

d) All are correct

54 a) Accommodation

b) Acomoddation

c) Accomodation

d) Accommodation

In the following questions, four alternatives are given for the Idiom/Phrases. Choose the alternative, which best expresses the meaning of the idiom /Phrase

55 ***A closed fist person***

- | | |
|---------------------------------|---------------------|
| a) Very poor | b) Miser person |
| c) Person inside a closed room. | d) a wealthy person |

56 ***Beat about the bush***

- | | |
|---------------------------------|----------------------------|
| a) Not clear what is being said | b) To hide behind the bush |
| c) Very clear and lucid | d) To praise someone |

57 ***Making a fresh start.***

- | | |
|--|--------------------------|
| a) Improvising the old thought | b) Giving a jumpstart |
| c) Starting something in a new and different way | d) Grabbing the eyeballs |

Re-arrange the parts of the sentence in correct order

58 P. As for the tasks
Q. three important ones
R. ahead, there appear
S. to be at least

- | | |
|---------|---------|
| a) PRQS | b) RQPS |
| c) PSRQ | d) PRSQ |

59 P. they not only
Q. tech activists on to the streets
R. ran an innovative and creative campaign, but
S. were also able to bring

- | | |
|---------|---------|
| a) PRQS | b) RQPS |
| c) PSRQ | d) PRSQ |

60 P. Is our national identity
Q. needs to be shrouded in a
R. of such a loose character that it
S. cloak of anodyne conformity?

- | | |
|---------|---------|
| a) PRQS | b) RQPS |
| c) PSRQ | d) PRSQ |

