

NEHRU SCIENCE CENTRE

Dr. E. Moses Road, Worli

Mumbai-400018

Aptitude Test for the post of Security & Maintenance Officer

Date: 28.01.2017

Full Marks:-60

Time:- 1½ hours

Name of the candidate : _____

Signature of the candidate : _____

General Instructions:-

1. All the questions are compulsory.
2. Section-I contains objective type questions for which 4 options are given. Put a (√) mark on the correct answer in the question paper itself.
3. For answering descriptive type questions in Section-II, use separate answer sheet(s).

SECTION-I

Q.1 : Put a (√) mark on the most appropriate answer from among the four alternatives given below each questions:

1 X 30 = 30 marks

1. Every Police Officer while making arrest shall-
 - (A) bear an accurate, visible and clear identification of his name which will facilitate the identification
 - (B) prepare a Memorandum of Arrest
 - (C) inform the person arrested unless the memorandum is attested by a member of his family
 - (D) all of the above

2. As per the provisions in Code of Criminal Procedure, 1973, any Police Officer may, without any order from the Magistrate and without a warrant, arrest a person-
 - (A) who commits cognizable offence in the presence of Police Officer
 - (B) who has been proclaimed as a offender either under code of criminal procedure, 1973 or by order of the State Government
 - (C) who is reasonably suspected of being a Deserter from any of the armed forces of the union
 - (D) all of the above

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3. A minimum of witnesses are to be ensured present at the time of recording statements in writing.
- (A) two dependent
 - (B) two connected
 - (C) two independent
 - (D) two volunteer
4. ____ are considered to be backbone of any security wing.
- (A) Intelligence report
 - (B) Inspection and feedback
 - (C) Patrolling and surprise checking
 - (D) Static duty and personal checking
5. The responsibility of safety of visitors to Nehru Science Centre primarily rests with –
- (A) Security Officer
 - (B) Controller of Administration
 - (C) Local Police
 - (D) Curator
6. Pointing towards a boy Shrimati Meera said, “He is the only son of the only child of my paternal grandfather.” How is that boy related to Shrimati Meera?
- (A) Cousin
 - (B) Uncle
 - (C) Sister
 - (D) Brother
7. Megha goes 10 km driving a car, then she turns right and goes 6 km. Again she turns right and goes 10 km and stops. How far is she from her starting point?
- (A) 16 km
 - (B) 6 km
 - (C) 4 km
 - (D) 12 km

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8. Sneha, Avani, Dhruv and Partho took part in a competition and all of them won different amounts of money. Avani won more than Partho, but less than Sneha. Dhruv won less than Sneha but more than Avani. Who won the highest amount?
- (A) Partho
(B) Sneha
(C) Dhruv
(D) Avani
9. If the code for SMOOTH is 146628, code for ROUGH is 96378 and code for HARD is 8194, then what will be the code for SOFT?
- (A) 1662
(B) 1347
(C) 4998
(D) 8949
10. In a specific code, TRUMP is written as SUTQN. In this code, FIRED would be written as:
- (A) ELIQB
(B) ELQIC
(C) EILQB
(D) ELQIB
11. A sum of money is borrowed and paid back in two equal annual instalments of ₹882, allowing 5% compound interest. The sum borrowed was:
- (A) ₹1600
(B) ₹1680
(C) ₹1620
(D) ₹1700
12. The average weight of a group of 150 students in a class is 60 kg. If the mean of weights of all the 50 male students in the class is 70 kg, then the average weight of 100 girls in the class is :
- (A) 65 kg
(B) 50 kg
(C) 60 kg
(D) 55 kg

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13. My grandfather was 8 times older than me 16 years ago. He would be 3 times my age, 8 years from now. Eight years ago, what was the ratio of my age to that of my grandfather?
- (A) 3:8
(B) 2:5
(C) 1:2
(D) 1:5
14. Income of two companies A and B are in the ratio of 5:8. Had the income of company A been more by ₹25 lakhs, the ratio of their incomes would have been 5:4 respectively. What is the income of company B?
- (A) ₹80 lakhs
(B) ₹50 lakhs
(C) ₹40 lakhs
(D) ₹60 lakhs
15. A grocer mixes 26 kg of tea which costs ₹20 a kg with 30 kg of tea which costs ₹36 a kg and sells the mixture at ₹30 a kg. His profit percent is:
- (A) 5%
(B) 6%
(C) 7%
(D) 8%
16. The Ramkrishna Mission founded by Swami Vivekananda in _____ AD.
- (A) 1892
(B) 1897
(C) 1901
(D) 1907
17. Who founded Indian National Congress?
- (A) Mahatma Gandhi
(B) A.O. Hume
(C) G.K. Gokhle
(D) Jawaharlal Nehru

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18. The only state in India that produces saffron is-
- (A) Assam
 - (B) Himachal Pradesh
 - (C) Jammu & Kashmir
 - (D) Meghalaya
19. The zonal soil type of peninsular India belongs to-
- (A) Red Soils
 - (B) Yellow soils
 - (C) Black soils
 - (D) Older alluvium
20. Potassium Nitrate is used in-
- (A) Medicine
 - (B) Fertiliser
 - (C) Salt
 - (D) Glass
21. Atoms are composed of-
- (A) Electrons & Protons
 - (B) Electrons only
 - (C) Protons only
 - (D) Electrons & Nuclei
22. Which of the following is a protein?
- (A) Natural rubber
 - (B) Starch
 - (C) Cellulose
 - (D) None of these
23. The constitution of India was amended for the first time in
- (A) June 1951
 - (B) June 1952
 - (C) July 1952
 - (D) January 1951

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24. The executive head of a state government is-
- (A) Chief Justice of High Court
 - (B) The Chief-Minister
 - (C) The Governor
 - (D) The Prime Minister
25. Who appoints the members of the Union Public Service Commission?
- (A) President
 - (B) Prime Minister
 - (C) Chairman of UPSC
 - (D) Chief Justice of Supreme Court
26. The passengers were afraid, but the captain.....them that there was no danger.
- (A) promised
 - (B) assured
 - (C) advised
 - (D) instructed
27. The transfer of territories could not take place because on Statethe findings of the Commission.
- (A) disputed
 - (B) rejected
 - (C) questioned
 - (D) objected
28. the arrival of the police nobody went near the victim.
- (A) unless
 - (B) until
 - (C) even
 - (D) till
29. I saw him going escorted two policemen.
- (A) with
 - (B) against
 - (C) by
 - (D) on
30. The petitioner is aggrieved the advocate.
- (A) against
 - (B) on
 - (C) with
 - (D) by

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SECTION-II

Q.1 : Answer the following questions with about 150 words each.

2 X 15 = 30 marks

- A) Nehru Science Centre, Mumbai is visited by about 8 lakh visitors per year. Suggest appropriate measures to handle a situation of stampede due to panic of a bomb scare.
- B) It was reported by Cashier in the morning that an amount of ₹2.00 lakh has been stolen from the iron-safe in the previous night. But the security guards on night duty did not have any knowledge about such theft. In the capacity of Security Officer suggest the line of action to be taken in this regard.

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