

Reg. No. \_\_\_\_\_ Name \_\_\_\_\_

**ASO Written Exam | IIT Bombay**

05/Feb/2025

Max marks: 150

Max time: 90 mins

**Answer all MCQs against the respective Qs below only.**

Q No.	Ans	Q No.	Ans	Q No.	Ans	Q No.	Ans
1		11		21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

**NOTE: Q 1-40 are 2.5 marks each, having only one correct answer. There is no negative marking.**

1. Sum of the age of 4 children born at interval of 4 years is 36. What is the age of youngest child?
  - a. 2 years
  - b. 3 years
  - c. 4 years
  - d. 5 years
  
2. What should be the value of x in equation  $(x / \sqrt{216}) = (\sqrt{96} / x)$ ?
  - a. 12
  - b. 13
  - c. 14
  - d. 11
  
3. Who is the current defence minister of India?
  - a. Nitin Gadkari
  - b. Amit Shah
  - c. Ajit Dobhal
  - d. Rajnath Singh
  
4. Which of the following states in India has two IITs currently?
  - a. Madhya Pradesh
  - b. Andhra Pradesh
  - c. Himachal Pradesh
  - d. Uttar Pradesh
  
5. Which is the capital of Mizoram?
  - a. Aizawl
  - b. Gangtok
  - c. Raipur
  - d. Dispur
  
6. Complete the following series of numbers 0, 3, 8, 15, 24, 35, 48, \_\_\_\_
  - a. 62
  - b. 63
  - c. 64
  - d. 65
  
7. Can you please put the book \_\_\_\_\_ the bag?
  - a. in
  - b. into
  - c. of
  - d. at

8. Finance Minister Nirmala Sitharaman in her Budget 2025 speech announced that there will be NIL or zero income tax for individuals earning up to \_\_\_\_\_
- 8 lakh
  - 10 lakh
  - 12 lakh
  - 14 lakh
9. Which of the following sentence is correctly written?
- She did not completed the homework yesterday.
  - She does not complete the home work yesterday.
  - She did not complete the home work yesterday.
  - She does not completed the home work yesterday.
10. A shopkeeper purchases 15 mangoes for Rs. 10 and sells them at 10 mangoes for Rs. 15. Thus, he earns a profit of:
- 50%
  - 75%
  - 80%
  - 125%
11. Which of the following is odd one out in this series: 3, 5, 7, 9?
- 3
  - 5
  - 7
  - 9
12. To fill a tank, 25 buckets of water is required. How many buckets of water will be required to fill the same tank if the bucket capacity is reduced to 40%?
- 10
  - 35
  - 62.5
  - 125
13. Which of the following is most important for fire safety in a residential buildings?
- Smoke detectors
  - Fire-resistant paints
  - Ambulance
  - Inflammable material storage tanks
14. What is the first thing you should do if you hear a fire alarm?
- Investigate the source of the alarm.
  - Call the fire department immediately
  - Evacuate the building immediately
  - Use a fire extinguisher to put out the fire

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- 15.** What is the purpose of a speed bump on the road?
- To make the driver attentive
  - To slow the speed of vehicle
  - To allow the pedestrian to cross
  - All of these
- 16.** At the main gate entry, a construction labour is overserved under influence of alcohol. What would be your direction to your security staff in such a case?
- To ask the person questions.
  - To make him sit and wait for him to respond.
  - To take the person to the hospital for alcohol test and inform you.
  - To handover the person to police and inform the contractor.
- 17.** Which of the following devices cannot be used for data storage:
- Floppy disk
  - CD
  - Pen drive
  - Monitor
- 18.** Which term is denoted by "HHMD"?
- Hand held motion detector
  - Hand held metal detector
  - Hand held machine detector
  - Hand held material detector
- 19.** In Cricket, the free hit penalty is offered to the batting team after:
- The bowler balls a no-ball.
  - The bowler balls a wide ball.
  - The bowler falls down while bowling.
  - The Wicket-Keeper laughs loudly.
- 20.** The following extinguisher is suitable for cotton or other textile fire
- Water
  - Soda acid
  - Foam
  - Dry chemicals
- 21.** Which one of the following you will not do while handling a difficult or confrontational situation while on duty (e.g. someone is asking for permission to enter the campus but does not have the pass/ID)?
- I will calmly listen to visitor's concerns and communicate clearly about the access restrictions.
  - I will direct the visitor to reach out to one's contact and show verifiable reference/purpose of entry.
  - I will deny visitor entry without exception.
  - I will allow visitor entry but report it to Registrar/Director.

22. "Employee" under Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act 2013 means?
- A regular employee
  - A temporary employee
  - An ad hoc/daily wage employee
  - All of the above
23. What is the tag-line of 'Swachh Bharat Mission'?
- Sab Ka Saath Sab Ka Vikas
  - Ek Kadam Swachhata Ki Aur
  - EK Bharat Swachh Bharat
  - Swachh Bharat Swasth Bharat
24. Russia is currently in war with which country
- Ukraine
  - United Kingdom
  - United States of America
  - Uzbekistan
25. The 26/11 Mumbai terror attack by Lashkar -e-Taiba took place in:
- Oct 2009
  - Nov 2009
  - Oct 2008
  - Nov 2008
26. Which of the following will you do for ensuring the security and safety of the premises you are responsible for?
- Organize training and drills
  - Work at least one hour more than the regular duty hours
  - Conduct patrol at a set time once every week
  - Always inform local police of all actions taken
27. When was Article 370, which gave special status to Jammu and Kashmir (J&K), revoked ?
- 2009
  - 2014
  - 2019
  - 2024
28. We have a tournament in Kabaddi, with 6 teams participating. We first have a round-robin stage where each team plays against other team exactly once. After that, we have the final between the top two teams. Then, the number of total games played to declare the winner is:
- 13
  - 14
  - 15
  - 16

29. Which of the following pairs of words are differently related?
- Kind : Cruel
  - Slow : Lethargic
  - Stale : Fresh
  - Truth : Lie
30. Which is the odd weapon that is least like the others in the following list?
- Sword
  - Shotgun
  - Rifle
  - Revolver
31. If  $a*b = 2a + 3b$ , then the value of  $2*3 + 3*4$  is?
- 24
  - 31
  - 32
  - 34
32. For a visitor to IIT Bombay, what would be sufficient to allow her/him an entry?
- No document is required.
  - An invitation letter alone
  - Any identity card alone
  - A gate pass and an identity card
33. Which of the following cards will not be accepted to prove identity at the IITB main gate?
- Aadhaar card
  - Bank credit card
  - College identity card
  - Driving license
34. If NOIDA is written as OPJEB, then what will be the code for DELHI?
- EFMAK
  - EFAMK
  - EFMIJ
  - EFMIK
35. Which of the following is the correct word?
- Customar
  - Customer
  - Castomer
  - Castomar
36. Kalyan is brother of Salman. Dhriti is sister of Atharv and daughter of Suchitra. Saloni is wife of Kalyan and is sister of Suchitra. How is Saloni related to Atharv?
- Aunt
  - Grandmother
  - Mother
  - Daughter

37. There are 7 birds sitting on a branch of a tree. A hunter about 20 m away fires two shots with an airgun killing one of the birds. How many birds are left on the tree?
- 0
  - 1
  - 5
  - 6
38. What is the total area of IIT Bombay campus?
- 50 acre
  - 250 acre
  - 550 acre
  - 750 acre
39. What is the full form of BMC?
- Bombay Municipal Council
  - Brihanmumbai Municipal Corporation
  - Bombay Municipal Corporation
  - Brihanmumbai Municipal Council
40. There is a frog in a well which is 60 feet deep. Every day it climbs 10 feet and slides down by 5 feet by the night. How many days will it take to come out of the well?
- 6
  - 11
  - 12
  - Not possible for frog to come out

**NOTE: Q 41-42 are descriptive type. [Write to-the-point and limit your answers to less than 250 words. Marks will be awarded for fluid writing, grammar, content and clarity]**

41. Write a notice to the campus residents about the new traffic rules that are being implemented on the campus. In your notice write about what types of security and safety risks have increased on the campus and that these rules and restrictions are being imposed to reduce/eliminate these risks. *e.g. you should consider including rash driving or over speeding, unauthorized parking, increased honking, etc. Also, you should mention in the notice about adherence to these rules and fines for violations.* [25 marks]
42. A group of individuals become unruly and refuse to comply with the security policies at a large event inside the campus. Describe how would you handle it, and what steps will you take to ensure compliance? *e.g. write your observations, immediate actions you will take on the site and all subsequent actions/steps afterwards (e.g. identifying the individuals, maybe including informing local police/administration).* [25 marks]

----- End of the Question paper -----

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4	d	14	c	24	a	34	c
5	a	15	b	25	d	35	b
6	b	16	c	26	a	36	a
7	b	17	d	27	c	37	a
8	c	18	b	28	d	38	c
9	c	19	a	29	b	39	b
10	d	20	d	30	a	40	b