

This booklet contains 8 printed pages.

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Question Booklet for Written Test for the Posts—

Grade III (Non-Technical)

Question Booklet No.

Full Marks : 100

Time : 1½ Hours

Question Booklet SET : B

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

Read the following INSTRUCTIONS carefully :

1. Use black ballpoint pen only.
2. Fill in the particulars given below on this page.
3. Fill in the particulars on the **OMR Answer Sheet** as per Instructions given on the OMR Answer Sheet.
4. The **SET No.** of this **Question Booklet** is **B**. Write this **SET No.** at the specific space provided in the OMR Answer Sheet. OMR Answer Sheets without mention of the Set No. or with wrong Set No. shall not be assessed.
5. There are 50 (fifty) questions in this Booklet, each carrying 2 (two) marks.
6. Each question or incomplete statement is followed by 4 (four) suggested answers—(A), (B), (C) and (D). Mark the answer by darkening the appropriate circle in the OMR Answer Sheet using **black ballpoint pen**.
7. Marking of more than one answer against any question will be treated as incorrect response and no mark shall be awarded. There will be no negative marking for wrong answer.
8. Any change or erasing of the marked answer will damage the OMR Answer Sheet resulting in rejection of the Answer/Answer Sheet by the Computer. Therefore, do not change or erase the marked answer.
9. No part of the **Question Booklet** or the **OMR Answer Sheet** shall be detached or defaced under any circumstances.
10. Mobile phone, eraser (solid or liquid), calculator and other electronic gadgets are not allowed inside the Examination Hall.
11. At the end of the Examination, the OMR Answer Sheet **must be returned to the Invigilator** before leaving the Examination Hall. The Question Booklet may however be taken by the candidate.
12. Adoption of unfair means by the candidate in any form shall result in expulsion from the examination.
13. After opening the Question Booklet, check the total number of printed pages and report to the Invigilator in case of any discrepancy.

Roll Number :

Roll No. (in words) :

OMR Answer Sheet No. :

(As printed on the OMR Answer Sheet)

Verified and found correct

Full Signature of the Candidate

Signature of the Invigilator with date

SEAL

1. Simplify :

$$\frac{-3}{4} \times \left\{ \frac{2}{3} + \left(\frac{-5}{6} \right) \right\}$$

- (A) $\frac{1}{6}$ (B) $\frac{1}{8}$
(C) $\frac{-1}{4}$ (D) $\frac{-1}{6}$

2. If 21y5 is a multiple of 9, where y is a digit, what is the value of y?

- (A) 1 (B) 2
(C) 3 (D) 4

3. Find the values of the letters in the following :

$$\begin{array}{r} 3 \ A \\ + \ 2 \ 5 \\ \hline B \ 2 \end{array}$$

- (A) A = 6, B = 7
(B) A = 5, B = 6
(C) A = 7, B = 5
(D) A = 7, B = 6

4. Divide $z(5z^2 - 80)$ by $5z(z + 4)$ and find the answer from the options given below :

- (A) $4 - z$ (B) $z - 14$
(C) $z - 4$ (D) $z + 4$

5. If the weight of 12 sheets of thick paper is 40 grams, how many sheets of the same paper would weigh $2\frac{1}{2}$ kilograms?

- (A) 700 (B) 750
(C) 800 (D) 850

6. What are the roots of the equation $2x^2 - 5x + 3 = 0$?

- (A) 1 and $\frac{3}{2}$
(B) -1 and $\frac{3}{2}$
(C) 1 and $\frac{3}{4}$
(D) 1 and $-\frac{3}{4}$

7. The 10th term of the arithmetic progression 2, 7, 12, ... is

- (A) 27 (B) 37
(C) 47 (D) 57

8. A girl of height 90 cm is walking away from the base of a lamppost at a speed of 1.2 m/s. If the lamp is 3.6 m above the ground, what will be the length of her shadow after 4 seconds?

- (A) 1 m
(B) 1.2 m
(C) 1.4 m
(D) 1.6 m

9. Find the value of $\frac{1}{3^{-2}}$.

- (A) 3 (B) 9
(C) 18 (D) 27

10. Find the height of a cuboid whose volume is 275 cm^3 and base area is 25 cm^2 .

- (A) 25 cm (B) 22 cm
(C) 11 cm (D) 27 cm

11. What is a 'black hole' in astronomy?

- (A) A black object in our solar system
- (B) A cosmic body of extremely intense gravity from which nothing, not even light, can escape
- (C) A cosmic body with no gravitational pull
- (D) A black planet

12. The earth rotates around its axis from

- (A) East to West
- (B) West to East
- (C) Northeast to Southwest
- (D) Southeast to Northwest

13. The Angami tribe is domicile of which Indian State?

- (A) Arunachal Pradesh
- (B) Tripura
- (C) Sikkim
- (D) Nagaland

14. On the bank of which river, the Greek Emperor Alexander the Great fought with King Porus?

- (A) Jhelum
- (B) Chenab
- (C) Ravi
- (D) Beas

15. Which of the following plays was not written by Kalidasa?

- (A) *Abhijnanashakuntalam*
- (B) *Vikramorvasiyam*
- (C) *Svapnavasavadattam*
- (D) *Malavikagnimitram*

16. During whose rule was the Grand Trunk Road built?

- (A) Sher Shah Suri
- (B) Iltutmish
- (C) Alauddin Khalji
- (D) Muhammad bin-Tughluq

17. Where was the head office of Indian National Army or Azad Hind Fauz located?

- (A) Tokyo
- (B) Berlin
- (C) Rangoon
- (D) Kuala Lumpur

18. What was the original name of Swami Vivekananda?

- (A) Bankim Chandra Chattopadhyay
- (B) Narendranath Datta
- (C) Chittaranjan Das
- (D) Rash Behari Bose

19. Dandi March was led by

- (A) Mahatma Gandhi
- (B) Pandit Jawaharlal Nehru
- (C) Madan Mohan Malaviya
- (D) Bal Gangadhar Tilak

20. Which of the following is the classical dance of Andhra Pradesh?

- (A) Kathakali
- (B) Bharatanatyam
- (C) Mohiniyattam
- (D) Kuchipudi

21. Who among the following is known as the Father of the Indian Constitution?

- (A) B. N. Rao
- (B) Alladi Krishnaswami Ayyar
- (C) Dr. B. R. Ambedkar
- (D) Maulana Abul Kalam Azad

22. The Chief Justice of a High Court is appointed by

- (A) the President of India
- (B) the Chief Justice of the Supreme Court of India
- (C) the Prime Minister's Office
- (D) the Governor of the concerned State

23. Which of the following is an indigenously built light combat aircraft of India?

- (A) Akash
- (B) Gnat
- (C) Mirage
- (D) Tejas

24. What is the full form of DRDO?

- (A) Defence Research and Delivery Organization
- (B) Development Research and Defence Organization X
- (C) Defence Research and Development Organization
- (D) Defence Research and Delivery Observatory

25. Which was the first artificial satellite to be sent to the space by any country?

- (A) Pioneer
- (B) Luna I
- (C) Apollo I
- (D) Sputnik I

26. Who was the first Indian woman to scale Mount Everest?

- (A) Premlata Agarwal
- (B) Arunima Sinha
- (C) Bachendri Pal
- (D) Shivangi Pathak

27. When is the 'World AIDS Day' observed?

- (A) 2nd November
- (B) 1st December
- (C) 16th September
- (D) 11th December

28. The French Open is the tournament played for which of the following sports?

- (A) Volleyball
- (B) Hockey
- (C) Lawn tennis
- (D) Badminton

29. What is the capital of Pakistan?

- (A) Rawalpindi
- (B) Islamabad
- (C) Lahore
- (D) Karachi

30. What is the official currency of Japan?

- (A) Won
- (B) Yen
- (C) Yuan
- (D) Dollar

31. The process of conversion of sugar to alcohol by the microorganism yeast is called
☒ (A) biodegradation
 (B) decomposition
 (C) fermentation
 (D) phosphorylation
32. What does our body produce to fight the invader when a disease-causing microbe enters our body?
 (A) Antigen
☒ (B) Antibody
 (C) Albumin
 (D) Antibiotic
33. Microbial diseases that can spread from an infected person to a healthy person through air, water, food or physical contact are called
☒ (A) communicable diseases
 (B) non-communicable diseases
 (C) autoimmune diseases
 (D) None of the above
34. Which of the following materials is non-biodegradable?
 (A) Paper
 (B) Cloth
 (C) Wood
☒ (D) Plastic bags
35. The property of metals by which they can be beaten into thin sheets is called
☒ (A) malleability
 (B) ductility
 (C) conductivity
 (D) elasticity
36. The green coloured plastids present in leaves of plants is called
 (A) golgi body
☒ (B) chloroplast
 (C) chlorophyll
 (D) lysosome
37. Fallopian tubes are the parts of which of the following?
 (A) Flowers
☒ (B) Kidneys
 (C) Female reproductive system
 (D) Male reproductive system
38. When two or more reactants react with each other to form a single product, it is called
☒ (A) oxidation reaction
 (B) reduction reaction
 (C) decomposition reaction
 (D) combination reaction
39. Carbon compounds having double or triple bonds between the carbon atoms are known as
☒ (A) saturated carbon compounds
 (B) unsaturated carbon compounds
 (C) haloethanes
 (D) alkanes
40. Waste products produced by our body during metabolism and carried by blood are excreted through
 (A) the kidneys
☒ (B) the spleen
 (C) the gonads
 (D) the stomach

41. What is the past tense of 'speak'?

- (A) Spoken
- ☒ (B) Spoke
- (C) Spoked
- (D) Spook

42. Fill in the blank with correct pronoun :
"The presents are for you and ____."

- (A) me
- (B) I
- ☒ (C) she
- (D) they

43. Fill in the blank with correct preposition :
"She sat ____ the fire and told me a tale."

- ☒ (A) in
- (B) after
- (C) into
- (D) by

44. A person who eats human flesh is called

- (A) parasite
- ☒ (B) cannibal
- (C) iconoclast
- (D) drover

45. Complete the proverb with the correct word given below :

"Better late than ____."

- (A) ever
- (B) never
- ☒ (C) always
- (D) forever

46. Which of the following is correct?

- (A) A hedge of flowers
- ☒ (B) A shoal of flowers
- (C) A bouquet of flowers
- (D) A pride of flowers

47. What is the synonym of 'fraternity'?

- (A) Brotherhood
- (B) Neighbourhood
- ☒ (C) Friendship
- (D) Consulate

48. What is the opposite gender of 'widow'?

- (A) Bachelor
- (B) Spinster
- ☒ (C) Maiden
- (D) Widower

49. What is the superlative of 'modern'?

- ☒ (A) Modernist
- (B) Most modern
- (C) Moderate
- (D) None of the above

50. What is the antonym of 'best'?

- (A) Worse
- (B) Bad
- ☒ (C) Worst
- (D) Poor