

28/AE/CME/M-2022-3

Booklet Series

Candidate's Roll Number

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**A**

Serial No.

105667

Question Booklet

Paper—III

**GENERAL STUDIES**

( Objective )

Time Allowed : 1 Hour

Maximum Marks : 100

Read the following instructions carefully before you begin to answer the questions.

**IMPORTANT INSTRUCTIONS**

1. This Question Booklet contains **50** questions in all.
2. **All** questions carry equal marks.
3. Attempt **all** questions.
4. **Immediately after commencement of the examination, you should check up your Question Booklet and ensure that the Question Booklet Series is printed on the top right-hand corner of the Booklet. The Booklet contains 8 printed pages and no page or question is missing or unprinted or torn or repeated. If you find any defect in this Booklet, get it replaced immediately by a complete Booklet of the same series.**
5. You must write your Roll Number in the space provided on the top of this page. Do not write anything else on the Question Booklet.
6. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers. **You must write your Name, Roll No. and other particulars on the first page of the Answer Sheet provided, failing which your Answer Sheet will not be evaluated.**
7. You will encode your **Roll Number** and the **Question Booklet Series A, B, C or D** as it is printed on the top right-hand corner of this Question Booklet with Black/Blue ballpoint pen in the space provided on **Page-2** of your Answer Sheet. **If you do not encode or fail to encode the correct series of your Question Booklet, your Answer Sheet will not be evaluated correctly.**
8. Questions and their responses are printed in English only in this Booklet. Each question comprises **four** responses—(A), (B), (C) and (D). You are to select **ONLY ONE** correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
9. In the Answer Sheet, there are **four** brackets—(A), (B), (C) and (D) against each question. To answer the questions you are to **mark with Black/Blue ballpoint pen ONLY ONE** bracket of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. **Any erasure or change is not allowed.**
10. You should not remove or tear off any sheet from the Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. **After the examination has concluded, you must hand over your Answer Sheet to the Invigilator.** Thereafter, you are permitted to take away the Question Booklet with you.
11. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SEAL

1. The least count of Vernier Caliper is
- (A) 0.01 cm
  - (B) 0.01 mm
  - (C) 0.1 cm
  - (D) 0.001 cm
2. The unit of linear momentum is
- (A)  $\text{kg m s}^{-2}$
  - (B)  $\text{kg}^2 \text{ m s}^{-1}$
  - (C)  $\text{N s}^{-1}$
  - (D)  $\text{N s}$
3. Altimeter is an equipment used in an aircraft to measure its
- (A) pressure
  - (B) velocity
  - (C) altitude
  - (D) temperature
4. The global warming has resulted in
- (A) the increase in yield of crops
  - (B) the increase in sea level
  - (C) the decrease in sea level
  - (D) the decrease in human deaths
5. A thick glass plate behaves like a
- (A) convex mirror
  - (B) concave mirror
  - (C) convex lens
  - (D) plane mirror
6. \_\_\_\_\_ are used in radiotherapy.
- (A) X-rays
  - (B)  $\gamma$ -rays
  - (C) UV-rays
  - (D) IR-rays
7. A fuse wire is made up of \_\_\_\_\_ alloy.
- (A) manganin and constantan
  - (B) constantan and tungsten
  - (C) lead and tin
  - (D) copper and aluminium
8. In cold countries, water is used as heat reservoir for wine bottles because
- (A) specific heat capacity of water is same as that of the wine
  - (B) specific heat capacity of water is very high
  - (C) specific heat capacity of water is very low
  - (D) specific heat capacity of water is less than the wine

9. \_\_\_\_\_ radiations are used to control the thickness of papers, plastic and metal sheets during production.
- (A) Beta  
(B) Gamma  
(C) Alpha  
(D) Infrared
10. The quality of sound depends upon
- (A) amplitude  
(B) frequency  
(C) wavelength  
(D) waveform
11. Rice grows better in \_\_\_\_\_ soil.
- (A) neutral  
(B) acidic  
(C) alkaline  
(D) red
12. The only non-metal which forms positive ion is
- (A) hydrogen  
(B) helium  
(C) argon  
(D) oxygen
13. Dental amalgam is a mixture of
- (A) mercury and silver-lead alloy  
(B) mercury and silver-iron alloy  
(C) mercury and iron-tin alloy  
(D) mercury and silver-tin alloy
14. \_\_\_\_\_ hydrocarbon is a greenhouse gas.
- (A) Acetylene  
(B) Ethylene  
(C) Methane  
(D) Ethane
15. Volume-temperature relationship is given by
- (A) Charles  
(B) Boyle  
(C) Dalton  
(D) Cavendish
16. On reaction with water, active metal produces
- (A) an acid  
(B) a base  
(C) oxygen  
(D) metal oxide

17. If there was no carbon dioxide in the earth's atmosphere, the temperature of the earth would be

- (A) higher than the present
- (B) lower than the present
- (C) the same
- (D) dependent on the amount of oxygen present in the atmosphere

18. The maximum prescribed concentration of copper in drinking water is

- (A) 5 ppm
- (B) 4 ppm
- (C) 3 ppm
- (D) 2 ppm

19. When a neutral atom is converted into a cation, its



- (A) atomic weight increases
- (B) atomic weight decreases
- (C) size increases
- (D) size decreases

20. Which of the following is diamagnetic?

- (A)  $O_2^+$
- (B)  $O_2^{-2}$
- (C)  $O_2^-$
- (D)  $O_2$

21. Picasa is a free program from \_\_\_\_\_ that is used to organize, edit and share the digital photographs online.

- (A) Amazon
- (B) Flipkart
- (C) Microsoft
- (D) Google

22. Resources are centralized amongst the various branches of an organization in a \_\_\_\_\_ cloud.

- (A) private
- (B) public
- (C) hybrid
- (D) community

23. \_\_\_\_\_ mode of transmission requires the devices to be in a direct line of sight with each other.

- (A) Bluetooth
- (B) Wi-Fi
- (C) Infrared
- (D) Hi-Fi

24. \_\_\_\_\_ is aware of the addresses assigned to each of its ports and sends the incoming data it receives only to the correct port.

- (A) Hub
- (B) Switch
- (C) Repeater
- (D) Modem

25. Reddit is a social networking site which is also called a/an \_\_\_\_\_ app.
- (A) banking
  - (B) education
  - (C) entertainment
  - (D) news aggregator
26. File transfer protocol was originally designed by
- (A) William Playfair
  - (B) Suril Shah
  - (C) Abhay Bhushan
  - (D) Robert Elliot Kahn
27. \_\_\_\_\_ is a logical situation where either of the two actions is to be performed depending upon the specific condition.
- (A) If else
  - (B) If
  - (C) If else if
  - (D) End if
28. What does OOP mean?
- (A) Object-Oriented Procedure
  - (B) Object-Oriented Programming
  - (C) Object-Origin Program
  - (D) None of the above
29. Which type of chart is used for representing huge amount of data?
- (A) Bar
  - (B) Scatter
  - (C) Area
  - (D) Line
30. \_\_\_\_\_ has the capability to prioritise the process, minimize the execution time and work independently with no interdependencies.
- (A) DOS
  - (B) MTOS
  - (C) RTOS
  - (D) MPOS
31. The trident shaped symbol of Buddhism **does not** represent
- (A) Nirvana
  - (B) Sangha
  - (C) Buddha
  - (D) Dhamma
32. The largest epic of the world is the
- (A) *Ramayana*
  - (B) *Bible*
  - (C) *Mahabharata*
  - (D) *Quran*





42. World's largest Khadi National Flag has been installed at  
(A) Srinagar  
(B) Shimla  
(C) Leh  
(D) Jammu
43. Swachh Bharat Mission Urban was launched in the year  
(A) 2013  
(B) 2015  
(C) 2016  
(D) 2014
44. Which country will host 7th U-17 Women's FIFA World Cup in 2022?  
(A) England  
(B) France  
(C) India  
(D) China
45. Which bank has been declared as the overall winner of the EASE 3.0 awards?  
(A) Punjab National Bank  
(B) HDFC Bank  
(C) ICICI Bank  
(D) State Bank of India
46. Who became the first Indian to win a Paralympic medal in archery?  
(A) Harvinder Singh  
(B) Manish Narwal  
(C) Manoj Sarkar  
(D) Nishad Kumar
47. Engineer's Day on 15th September marks the birthday of great engineer  
(A) E. Sreedharan  
(B) Satish Dhawan  
(C) M. Visvesvaraya  
(D) A. P. J. Abdul Kalam
48. Which highway became the country's first EV-friendly highway?  
(A) Delhi-Jaipur  
(B) Delhi-Amritsar  
(C) Delhi-Chandigarh  
(D) Delhi-Agra
49. Which city has been declared as the first water plus city of the country?  
(A) Chandigarh  
(B) Indore  
(C) Bhopal  
(D) Hyderabad
50. \_\_\_\_\_ has become the first Indian State/City to become free from rabies.  
(A) Chennai  
(B) Bhubaneswar  
(C) Meghalaya  
(D) Goa

SPACE FOR ROUGH WORK



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SEAL