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Question Booklet

C

Paper—III

GENERAL STUDIES

Time Allowed : 1 Hour

(Objective)

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 11 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 highest earth-filled dam in India is

- (A) Ranjit Sagar
- (B) Bhakra
- (C) Tehri
- (D) Hirakud

(E) None of the above/More than one of the above

Bangar dam (Wajpanod)

2. The Supreme Commander of the military in India is

- (A) the President
- (B) the Prime Minister
- (C) the Home Minister
- (D) the Defence Minister

(E) None of the above/More than one of the above

3. Lok Adalat is

- (A) a court to settle disputes through compromise or settlements
- (B) a court designed to shorten the time taken for settling disputes
- (C) a court run by the people
- (D) All of the above

(E) None of the above/More than one of the above

4. The person who established the British rule in India is

- (A) Robert Clive
- (B) Duplex
- (C) Mir Jafar
- (D) Hastings

(E) None of the above/More than one of the above

5. The Article which deals with 'Education for All' is

- (A) Article 41
- (B) Article 43
- (C) Article 45
- (D) Article 44

(E) None of the above/More than one of the above

6. Who is known as the Father of Economics?

- (A) Karl Marx
- (B) John Marshall
- (C) Malthus
- (D) Adam Smith

(E) None of the above/More than one of the above

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7. The basic features of Economics are

- (A) production, labour and income
- (B) production, labour and consumption
- (C) production, distribution and income
- (D) production, distribution and consumption
- (E) None of the above/More than one of the above

8. The nurturing field of social progress is

- (A) house
- (B) family
- (C) society
- (D) school
- (E) None of the above/More than one of the above

9. Hydrogen bomb is based on the principle of

- (A) nuclear fission
- (B) nuclear fusion
- (C) natural radioactivity
- (D) artificial radioactivity
- (E) None of the above/More than one of the above

10. Which of the following are chemical changes?

- 1. Cooking of food
- 2. Digestion of food
- 3. Freezing of water
- 4. Water is heated up

Select the correct answer using the codes given below.

- (A) 1 and 2
- (B) 1, 2 and 3
- (C) 3 and 4
- (D) All of the above
- (E) None of the above/More than one of the above

11. A soap molecule has a

- (A) hydrophobic head and hydrophobic tail
- (B) hydrophobic head and hydrophilic tail
- (C) hydrophilic head and hydrophilic tail
- (D) hydrophilic head and hydrophobic tail
- (E) None of the above/More than one of the above

12. Which one of the following is **not** a greenhouse gas?

- (A) Methane
- (B) Hydrogen
- (C) Nitrous oxide
- (D) Ozone
- (E) None of the above/More than one of the above

13. Which among the following statements is/are true?

Exposure of silver chloride to sunlight for a long duration turns grey due to

- 1. the formation of silver by decomposition of silver chloride
- 2. sublimation of silver chloride
- 3. decomposition of chlorine gas from silver chloride
- 4. oxidation of silver chloride

Select the correct answer using the codes given below.

- (A) Only 1
- (B) 1 and 3
- (C) 2 and 3
- (D) Only 4
- (E) None of the above/More than one of the above

14. What happens when a solution of an acid is mixed with a solution of a base in a test tube?

- 1. Temperature of the solution decreases
- 2. Temperature of the solution increases
- 3. Temperature of the solution remains the same
- 4. Salt formation takes place

Select the correct answer using the codes given below.

- (A) 1 and 4
- (B) 1 and 3
- (C) Only 2
- (D) 2 and 4
- (E) None of the above/More than one of the above

15. In terms of acidic strength, which one of the following is in the correct increasing order?

- (A) Water < Acetic acid < Hydrochloric acid
- (B) Water < Hydrochloric acid < Acetic acid
- (C) Acetic acid < Water < Hydrochloric acid
- (D) Hydrochloric acid < Water < Acetic acid
- (E) None of the above/More than one of the above

16. Tomato is a natural source of which acid?

(A) Acetic acid

(B) Citric acid

(C) Tartaric acid

(D) Oxalic acid

(E) None of the above/More than one of the above

17. What is the pH range of our body?

(A) 7.0-7.8

(B) 7.2-8.0

(C) 7.0-8.4

(D) 7.2-8.4

(E) None of the above/More than one of the above

18. The easily noticed smell of the LPG gas is because of which among the following?

(A) Butane

(B) Propane

(C) Methane

(D) Ethanethiol

(E) None of the above/More than one of the above

19. Which State Government has decided to start world's largest floating solar project by 2023?

(A) Tamil Nadu

(B) West Bengal

(C) Karnataka

(D) Madhya Pradesh

(E) None of the above/More than one of the above

20. The India Meteorological Department (IMD) inaugurated India's highest Meteorological Centre (MC) in

(A) Ladakh

(B) Arunachal Pradesh

(C) Sikkim

(D) Jammu and Kashmir

(E) None of the above/More than one of the above

21. Which one is the first country to approve Covid-19 vaccine of Oxford-AstraZeneca?

(A) USA

(B) England

(C) Japan

(D) India

(E) None of the above/More than one of the above

22. India's first National Sports University has been launched in

(A) Sikkim

(B) Manipur

(C) Kerala

(D) Punjab

(E) None of the above/More than one of the above

23. Which country's President was the Chief guest at India's Republic Day Parade on January 26, 2021 after UK Prime Minister Boris Johnson cancelled his visit to India due to Covid-19?
- (A) Bolivia
(B) Uruguay
(C) Guyana
(D) Suriname
(E) None of the above/More than one of the above
24. India's first Air Taxi Service has been launched in
- (A) Mumbai
(B) Manali
(C) Chandigarh
(D) Lucknow
(E) None of the above/More than one of the above
25. Which one country becomes the first country to receive the Indian Covid-19 vaccine?
- (A) Maldives
(B) Bhutan
(C) Nepal
(D) Sri Lanka
(E) None of the above/More than one of the above
26. Who became the first woman fighter pilot to participate in the Republic Day fly-past?
- (A) Bhawana Kanth
(B) Shaliza Dhami
(C) Avani Chaturvedi
(D) Mohana Singh Jitarwal
(E) None of the above/More than one of the above
27. How many rockets has been launched by SpaceX Agency on a single rocket?
- (A) 104
(B) 125
(C) 136
(D) 143
(E) None of the above/More than one of the above
28. IISc Bengaluru has signed a MoU with which organisation to develop biomass gasification-based hydrogen generation technology?
- (A) ONGC
(B) NTPC
(C) Indian Oil Corporation Ltd.
(D) Gas Authority of India Ltd.
(E) None of the above/More than one of the above

29. Speed of light will be minimum in which of the following mediums?

- (A) Water
- (B) Kerosene
- (C) Flint glass
- (D) Diamond
- (E) None of the above/More than one of the above

30. When light travels from one medium to another medium

- (A) velocity, wavelength and frequency do not change
- (B) velocity, wavelength and frequency remain same
- (C) velocity, wavelength change and frequency remains same
- (D) velocity, frequency change and wavelength remains same
- (E) None of the above/More than one of the above

31. Electromagnetic wave is

- (A) non-mechanical wave with medium dependent
- (B) non-mechanical wave with independent of medium
- (C) mechanical wave with medium dependent
- (D) mechanical wave with independent of medium
- (E) None of the above/More than one of the above

32. Optical fiber technology is based on

- (A) dispersion
- (B) interference
- (C) refraction
- (D) total internal reflection
- (E) None of the above/More than one of the above

33. Choose the correct option from the table :

	Music	Noise
(A)	Any unwanted sound that does not please our ears is called music	Any sound that pleases our ears is termed as noise
(B)	It is produced by heavy-duty trucks, railway engines' horns, aircraft, car, faulty loudspeaker, etc.	It is produced by musical instruments such as sitar, guitar, violin, keyboard, etc.
(C)	Music has frequency and wavelength that are harmonious	Noise has irregular waveform, wavelength and low frequencies
(D)	Music has a very soothing effect	Noise has also soothing effect
(E)	None of the above/More than one of the above	

34. Cooking takes longest time

- (A) in Shimla
- (B) at the sea level
- (C) in Delhi
- (D) in Bengaluru
- (E) None of the above/More than one of the above

35. 'Project Loon' is associated with

- (A) waste management technology
- (B) wireless communication technology
- (C) solar power technology
- (D) water conservation technology
- (E) None of the above/More than one of the above

36. The efficiency of a solar cell may be in the range

- (A) 2% to 5%
- (B) 10% to 15%
- (C) 30% to 40%
- (D) 70% to 80%
- (E) None of the above/More than one of the above

37. Which of the following is a power absorbing heat engine?

- (A) Steam engine
- (B) Petrol engine
- (C) Air compressor
- (D) Diesel engine
- (E) None of the above/More than one of the above

38. Fingerprints are observed by the use of

- (A) telescope
- (B) microscope
- (C) Galilean telescope
- (D) concave lens
- (E) None of the above/More than one of the above

39. Digital data refers to the information that is

- (A) continuous
- (B) discrete
- (C) bits
- (D) bytes
- (E) None of the above/More than one of the above

40. Transformer works with

- (A) alternating current (AC)
- (B) direct current (DC)
- (C) both AC and DC
- (D) any signal
- (E) None of the above/More than one of the above

41. Relevant waves in telecommunication are

- (A) X-rays
- (B) microwaves
- (C) UV waves
- (D) All of the above
- (E) None of the above/More than one of the above

42. Which of the following are mobile operating systems?

1. Android
2. iOS
3. Windows Phone OS
4. Symbian

Select the correct answer using the codes given below.

- (A) All of the above
(B) 1 and 2
(C) 2 and 3
(D) 1, 2 and 3
(E) None of the above/More than one of the above

43. Which of the following is/are not secondary memory of computer?

1. Compact Disk (CD)
2. Cache Memory
3. Floppy Disk (FD)
4. Hard Disk Drive (HDD)

Select the correct answer using the codes given below.

- (A) Only 2
(B) 1 and 2
(C) 2 and 3
(D) Only 4
(E) None of the above/More than one of the above

44. Auxiliary memory or secondary memory includes devices such as

1. optical disks like DVD, CD and Blu-ray disks
2. magnetic disks like memory stick, floppy disk and hard disk drive
3. solid state disks like thumb drive, pen and flash
4. electric disks like memory stick, floppy disk and hard disk drive
5. mechanical disks like DVD, CD and Blu-ray disks

Select the correct answer using the codes given below.

- (A) 1, 2 and 3
(B) 1 and 4
(C) 2 and 4
(D) 3 and 5
(E) None of the above/More than one of the above

45. What will happen when the memory chip is volatile?

1. Explodes due to high temperatures
2. Used for data storage
3. Loss of content due to loss of current
4. Used to write and read data
5. Damaged due to loss of current

Select the correct answer using the codes given below.

(A) Only 3

(B) Only 1

(C) 1 and 5

(D) 2 and 4

(E) None of the above/More than one of the above

46. Which of the following places the common data elements in order from smallest to largest?

1. Character, File, Record, Field, Database
2. Character, Record, Field, Database, File
3. Character, Field, Record, File, Database
4. Bit, Byte, Character, File, Record, Field, Database

Select the correct answer using the codes given below.

(A) 1 and 4

(B) Only 2

(C) Only 4

(D) Only 3

(E) None of the above/More than one of the above

47. Which of the following is designed to control the operations of a computer?

- (A) User
- (B) Application software
- (C) System software
- (D) Utility software
- (E) None of the above/More than one of the above

48. Which software prevents the external access to a system?

- (A) Firewall
- (B) Gateway
- (C) Router
- (D) Virus checker
- (E) None of the above/More than one of the above

49. Which of the following statements is **not** true about democracy?

- (A) Democracy evolves through popular struggle.
- (B) Democratic conflict is resolved through mass mobilisation.
- (C) Role of popular struggle comes to an end with the establishment of democracy.
- (D) Public participation becomes effective with the help of organised politics.
- (E) None of the above/More than one of the above

50. Nepal witnessed an extraordinary popular movement in

- (A) April 1990
- (B) February 2005
- (C) April 2006
- (D) April 2004
- (E) None of the above/More than one of the above