



NEET UG Previous Year Question Paper 2024

50 Questions · Total Questions: 50 · Each question carries 1 mark

Instructions: Each question has four options (A, B, C, D). Choose the most appropriate answer. Wrong answers carry no negative marking. All questions are compulsory.

1 In forensic DNA analysis using STR markers, what advantage do newer SNP-based methods provide over traditional STR typing for 2024-25 investigations?

- (A) Faster turnaround time and better degraded DNA recovery (B) Lower mutation rates and ability to infer population ancestry
- (C) Elimination of contamination issues (D) Higher discrimination power alone

[Biotechnology]

2 What is the significance of drip irrigation systems promoted under PMKSY in water-scarce regions of Bihar?

- (A) It increases water consumption (B) It reduces water usage by 40-60% while improving crop yields through targeted water delivery
- (C) It is ineffective in sandy soils (D) It requires heavy government subsidies only

[BPSC (Bihar)]

3 Bangalore Development Authority (BDA) falls under which ministry?

- (A) Ministry of Housing and Urban Affairs (B) Ministry of Urban Development
- (C) Karnataka State Government (Urban Development Department) (D) Ministry of Commerce

[KPSC (Karnataka)]

4 The reciprocity theorem states that in a linear bilateral network:

- (A) Current is proportional to voltage (B) Voltage response at node A due to source at B equals current response at B due to same source at A
- (C) Excitation and response are interchangeable (D) All of the above

[Electrical Engg (EEE)]

5 Under the RBI's Digital Rupee (e₹) initiative, which of the following is a primary objective?

- (A) Replace all physical currency immediately (B) Provide a secure, efficient digital payment alternative while maintaining the role of physical currency
- (C) Eliminate private cryptocurrencies completely (D) Remove the need for banks in financial transactions

[Bank PO / Clerk / RBI]

6 Correct the sentence: 'The project failed because the team couldn't see eye to eye about the budget allocation.'

- (A) No error (B) Should be 'see eyes to eyes'
(C) Should be 'see eye in eye' (D) Should be 'see the eye'

[English Language]

7 Which of the following correctly identifies the administrative divisions of West Bengal as per the 2024 reorganization?

- (A) 23 districts (B) 24 districts
(C) 25 districts (D) 26 districts

[WBPS (West Bengal)]

8 The turgor pressure in plant cells is maintained by which osmotically active substances?

- (A) Cellulose and starch (B) Soluble sugars, organic acids, and mineral ions
(C) Proteins and lipids (D) Chlorophyll and carotenoids

[General Science]

9 The intensity of a sound wave is I . If the amplitude is doubled and frequency is halved, the new intensity will be:

- (A) I (B) $2I$
(C) $4I$ (D) $I/2$

[JEE Physics]

10 Which of the following is a UNESCO World Heritage Site located in Haryana?

- (A) Taj Mahal (B) Kumbhalgarh Fort
(C) Archaeological remains in Haryana (D) None of the above

[HPSC (Haryana)]

11 If all roses are flowers and some flowers are red, which of the following must be true?

- (A) All roses are red (B) Some roses are red
(C) No roses are red (D) Some flowers are not red

[GPSC (Gujarat)]

12 Which ancient Indian text contains the earliest mention of the Varna system?

- (A) Rigveda (B) Yajurveda
(C) Samaveda (D) Atharvaveda

[Indian History & Polity]

13 Which factor is NOT typically considered in Environmental Impact Assessment (EIA) studies for developmental projects?

- (A) Impact on biodiversity and ecosystems (B) Air and water quality changes
(C) Cost of the project to the developer (D) Socio-economic impacts on local communities

[GPSC (Gujarat)]

14 A man bought a car for Rs. 5,00,000 and sold it at a loss of 15%. What is the selling price?

- (A) Rs. 4,25,000 (B) Rs. 4,15,000
(C) Rs. 5,75,000 (D) Rs. 4,45,000

[Placement Papers]

15 Which modulation technique provides the best harmonic performance in high-power applications?

- (A) Sinusoidal PWM (SPWM) (B) Space Vector PWM (SVPWM)
(C) Hysteresis PWM (D) Random PWM

[Electrical Engg (EEE)]

16 A Carnot engine operates between 400 K and 300 K. Its maximum efficiency is:

- (A) 25% (B) 33.33%
(C) 50% (D) 75%

[JEE Physics]

17 A reversible adiabatic process for an ideal gas follows $PV^\gamma = \text{constant}$. If $\gamma = 1.4$ and initial pressure is 1 atm with volume 1 L, what is the final pressure when volume becomes 0.5 L?

- (A) 2.64 atm (B) 1.4 atm
(C) 2.0 atm (D) 0.5 atm

[Chemical Engineering]

18 Which of the following is NOT a method for cryopreservation of cell cultures?

- (A) Liquid nitrogen freezing at -196°C (B) Glycerol-based cryoprotectants
(C) DMSO (Dimethyl sulfoxide) as cryoprotectant (D) Heating cells to 50°C in dry ice

[Biotechnology]

19 Which method of PriorityQueue returns the element without removing it?

- (A) poll() (B) remove()
(C) peek() (D) pop()

[Java Programming]

20 Which scenario demonstrates a dangling pointer?

- (A) Pointer declared but not initialized (B) Pointer freed but still used afterward
(C) Pointer set to NULL (D) Pointer pointing to static variable

[C Programming]

21 What is the full form of NITI Aayog?

- (A) National Institute for Transformation of India (B) National Initiative for Trade and Investment
(C) National Institute of Trade and Investment (D) National Initiative for Transformation of India

[SSC CGL / CHSL / MTS]

22 If the binding energy per nucleon of ^{56}Fe is 8.79 MeV and that of ^{235}U is 7.59 MeV, which nucleus is more stable?

- (A) ^{56}Fe is more stable
(B) ^{235}U is more stable
(C) Both are equally stable
(D) Cannot be determined from given data

[JEE Physics]

23 What will be the output? interface A { void show(); } class B implements A { public void show() { System.out.println("B"); } } class C extends B { public void show() { System.out.println("C"); } } A obj = new C(); obj.show();

- (A) A
(B) B
(C) C
(D) Compilation Error

[Java Programming]

24 What is the return type of the lambda expression: (a, b) -> a > b?

- (A) int
(B) boolean
(C) void
(D) Cannot be determined

[Java Programming]

25 In Friedel-Crafts alkylation, the reactivity of alkyl halides follows:

- (A) Primary > Secondary > Tertiary
(B) Tertiary > Secondary > Primary
(C) Primary > Tertiary > Secondary
(D) All are equally reactive

[JEE Chemistry]

26 In forward biasing of a p-n junction, the depletion region width:

- (A) Increases
(B) Decreases
(C) Remains constant
(D) First increases then decreases

[JEE Physics]

27 What happens if you use 'return' statement inside a finally block?

- (A) The return statement is ignored
(B) The return statement in finally overrides any return in try/catch
(C) A compilation error occurs
(D) The finally block is skipped

[Java Programming]

28 What will be the behavior of fgets() when reading from an empty line in a file?

- (A) It will return NULL
(B) It will read the newline character into the buffer
(C) It will skip the empty line and read the next non-empty line
(D) It will cause a segmentation fault

[C Programming]

29 Vaccine is to Disease as Treaty is to ____?

- (A) Conflict
(B) Peace
(C) War
(D) Agreement

[Verbal Reasoning]

30 The commutation of a thyristor in a circuit means:

- (A) Turning it on
- (B) Changing its gate signal polarity
- (C) Turning it off by making anode current zero
- (D) Increasing its temperature

[Electrical Engg (EEE)]

31 A 28-year-old male presents with azoospermia and is found to have a 47,XXY karyotype. What is this chromosomal abnormality called?

- (A) Turner syndrome
- (B) Klinefelter syndrome
- (C) Down syndrome
- (D) Edwards syndrome

[NEET Zoology]

32 In: int *p; *p = 10; What is the issue?

- (A) Syntax error
- (B) p is uninitialized (wild pointer)
- (C) Memory leak
- (D) Type mismatch

[C Programming]

33 Which of the following is NOT covered under the Pradhan Mantri Fasal Bima Yojana?

- (A) Losses due to natural calamities
- (B) Post-harvest losses due to fire
- (C) Losses due to farmer negligence
- (D) Crop failure due to unseasonal rainfall

[GPSC (Gujarat)]

34 The 'Samacheer Kalvi' education scheme implemented in Tamil Nadu aims to provide which kind of education?

- (A) Private education only
- (B) Uniform school education system
- (C) Religious education
- (D) Vocational training only

[TNPSC (Tamil Nadu)]

35 For a triatomic linear gas molecule, what is the value of $C_p - C_v$?

- (A) R
- (B) 1.5R
- (C) 2R
- (D) 2.5R

[NEET Physics]

36 Which of the following policies created the 'zamindari crisis' by the late 19th century?

- (A) Ryotwari system exclusively
- (B) Permanent Settlement making zamindars wealthy absentee landlords while creating rack-renting and peasant indebtedness
- (C) Direct peasant ownership
- (D) Cooperative farming mandates

[Indian History & Polity]

37 As of 2024, which port in Tamil Nadu handles the highest cargo volume and is ranked among India's major ports?

- (A) Tuticorin Port
- (B) Chennai Port
- (C) Ennore Port
- (D) Nagapattinam Port

[TNPSC (Tamil Nadu)]

38 In 2024, India announced new guidelines for regulating which technology sector?

- (A) Cryptocurrency and Web3
- (B) Autonomous Vehicles
- (C) Drones
- (D) Biotech

[Current Affairs]

39 Which river basin project in Madhya Pradesh is expected to generate 1450 MW of hydroelectric power?

- (A) Narmada Valley Project
- (B) Godavari Basin Project
- (C) Tapi Basin Project
- (D) Chambal Project

[MPPSC (MP)]

40 What is the total length of coastline in Tamil Nadu?

- (A) 910 km
- (B) 1,076 km
- (C) 1,290 km
- (D) 1,345 km

[TNPSC (Tamil Nadu)]

41 The 'Pradhan Mantri Fasal Bima Yojana' (PMFBY) provides insurance coverage for which stakeholders?

- (A) Only government agencies
- (B) Farmers and agricultural labourers
- (C) Only large landholding farmers
- (D) Agricultural equipment manufacturers

[WBPS (West Bengal)]

42 What is the hold time of a flip-flop?

- (A) Time after clock pulse when data input must remain stable
- (B) Time before clock pulse when data input must remain stable
- (C) Time for output to stabilize after clock pulse
- (D) Time between consecutive clock pulses

[Electrical Engg (EEE)]

43 Pipe A can empty a full tank in 12 hours. Pipe B can fill the same tank in 18 hours. If both pipes are opened simultaneously with the tank full, how long to empty it?

- (A) 30 hours
- (B) 36 hours
- (C) 40 hours
- (D) 45 hours

[Quantitative Aptitude]

44 What does the following nested if-else produce? `int a = 10, b = 20; if (a > b) if (b > 0) printf("X"); else printf("Y");`

- (A) X
- (B) Y
- (C) XY
- (D) No output

[C Programming]

45 Rahul walks 5 km north, then 3 km east, then 5 km south. Where is he relative to his starting point?

- (A) 3 km east
- (B) 3 km west
- (C) 3 km north
- (D) Back to starting point

[Reasoning Ability]

46 Which device is used to detect broken rails in Indian Railways?

- (A) Radar detector
- (B) Ultrasonic testing device
- (C) Thermal camera
- (D) Speed gun

[Railway RRB / NTPC]

47 In 2024, Rajasthan government launched which scheme to promote women entrepreneurship?

- (A) Mahila Udyam Nidhi Yojana
- (B) Rajasthan Mahila Shakti Yojana
- (C) Naari Shakti Abhiyaan
- (D) Mahila Samridhi Yojana

[RPSC (Rajasthan)]

48 Which storage class specifier allows a function to be called only within the file where it is defined?

- (A) static
- (B) extern
- (C) auto
- (D) register

[C Programming]

49 What is the primary function of protein phosphatase 2A (PP2A) in cellular signaling?

- (A) It phosphorylates serine and threonine residues on target proteins
- (B) It dephosphorylates phosphorylated proteins, reversing kinase action and serving as a major tumor suppressor
- (C) It exclusively dephosphorylates tyrosine residues
- (D) It cleaves peptide bonds at acidic residues

[Biochemistry]

50 In Type III hyperlipoproteinemia (Familial Dysbetalipoproteinemia), the primary defect involves:

- (A) Apolipoprotein E2 isoform with impaired receptor binding
- (B) LDL receptor deficiency
- (C) Lipoprotein lipase deficiency
- (D) ABCA1 transporter mutation

[Biochemistry]

Answer Key

Q1 B	Q2 B	Q3 C	Q4 C	Q5 B	Q6 A	Q7 C	Q8 B
Q9 B	Q10 D	Q11 D	Q12 A	Q13 C	Q14 A	Q15 B	Q16 A
Q17 A	Q18 D	Q19 C	Q20 B	Q21 A	Q22 A	Q23 C	Q24 B
Q25 B	Q26 B	Q27 B	Q28 B	Q29 C	Q30 C	Q31 B	Q32 B
Q33 C	Q34 B	Q35 A	Q36 B	Q37 B	Q38 A	Q39 A	Q40 C
Q41 B	Q42 A	Q43 B	Q44 B	Q45 A	Q46 B	Q47 A	Q48 A
Q49 B	Q50 A						

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