

Question paper for recruitment of **Technical Assistant (UR) & (EWS)** held on 07.03.2026

Sec-A - General Intelligence : 10 Questions

Sec-B - General English : 10 Questions

Sec-C - General Awareness : 10 Questions

Sec.D - Concerned area / Subject : 70 Questions

GENERAL INTELLIGENCE

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English

- Q1. A man travels to a certain place at a speed of 30 km/h and returns to the original place at a speed of 20 km/h. What is the average speed during the entire journey?
- A 24km/hr
 - B 25km/hr
 - C 26km/hr
 - D None of these

Correct Option(s): A

English

- Q2. Akash saw the clock when it was set right at 8 am. The clock gains 5 minutes in every hour, so what time will it show at 8 pm on the same day?
- A 10 AM
 - B 9 AM
 - C 9 PM
 - D 10 PM

Correct Option(s): C

English

- Statement: 1 All roses are flowers
Statement: 2 Some flowers fade quickly.
Q3. Which of the following conclusions logically follows?
- A All roses fade quickly
 - B Some roses fade quickly.
 - C Some flowers that fade quickly are roses.
 - D No roses fade quickly.

Correct Option(s): C

English

- Q4. Question: What comes next in the series: 2, 6, 12, 20, 30, ___?
- A 40
 - B 42
 - C 44
 - D 50

Correct Option(s): B

English

- Q5. If no cats are dogs and some dogs are pets, which of the following must be true?
- A No cats are pets.
 - B Some pets are cats.
 - C Some pets are not cats.
 - D All pets are dogs.

Correct Option(s): C

English

- Q6. If TIGER is coded as UJHFS, how is LION coded?
- A MJPO
 - B MJQP
 - C NKPO
 - D NKQP

Correct Option(s): A

English

- Q7. If 3 workers can build 6 chairs in 9 days, how many days will it take for 6 workers to build 12 chairs?
- A 9 days
 - B 6 days
 - C 12 days
 - D 18 days

Correct Option(s): A

English

- Q8. Which shape does NOT belong in the group?
(Shapes: Circle, Square, Triangle, Hexagon, Cube)
- A Circle
 - B Square
 - C Cube
 - D Hexagon

Correct Option(s): C

English

- Q9. A worker's salary is increased by 5% and then decreased by 5%. What is the net change in the salary?
- A Decrease in salary 0.25%
 - B Increase in salary 0.50%
 - C No change in salary
 - D Decrease in salary 0.50%

Correct Option(s): A

English

- Q10. A class consists of 20 boys and 50 girls. If the average age of the boys is 12 years and that of the girls is 10 years, what is the average age of the entire class?
- A 10 years
 - B 10.57 years
 - C 11.57 years
 - D 11 Years

Correct Option(s): B

English

- Q1. Identify the error in the sentence:
“Neither of the boys have completed their homework.”
- A Neither
 - B Have
 - C Their
 - D No error

Correct Option(s): B

English

- Q2. Choose the correct sentence:
- A. She is taller than me.
 - B. She is taller than I.
 - C. She is taller than I am.
 - D. Both B and C are correct.

Correct Option(s): A

English

- Q3. Select the correct passive voice form: “Someone stole my wallet.”
- A My wallet was stolen by someone.
 - B My wallet has been stolen.
 - C My wallet is stolen.
 - D My wallet had been stolen.

Correct Option(s): A

English

- Q4. Identify the correct preposition: “She is allergic ___ cats.”
- A with
 - B at
 - C for
 - D to

Correct Option(s): D

English

- Q5. Choose the correct conjunction: “I will go to the party ___ I finish my work.”
- A unless
 - B until
 - C provided
 - D whereas

Correct Option(s): C

English

- Q6. Select the synonym for “ubiquitous”:
- A Rare
 - B Everywhere
 - C Hidden
 - D Unique

Correct Option(s): B

English

- Q7. What is the meaning of “quixotic”?
- A Practical
 - B Idealistic
 - C Cynical
 - D Realistic

Correct Option(s): B

English

Q8. Identify the correctly spelled word:

- A Acoommodate
- B Accomodate
- C Accommodate
- D Acomodate

Correct Option(s): C

English

Q9. What is the meaning of the idiom “burn the midnight oil”?

- A To waste time
- B To celebrate
- C To destroy something
- D To work late into the night

Correct Option(s): D

English

Q10. Choose the antonym for “meticulous”:

- A Careful
- B Sloppy
- C Precise
- D Detailed

Correct Option(s): B

English

- Q1. What is the primary cause of coral bleaching?
- A Overfishing
 - B Ocean acidification
 - C Rising sea temperatures
 - D Plastic pollution

Correct Option(s): C

English

- Q2. Which international agreement aims to limit global warming to 1.5°C above pre-industrial levels?
- A Kyoto Protocol
 - B Paris Agreement
 - C Montreal Protocol
 - D Copenhagen Accord

Correct Option(s): B

English

- Q3. What is the primary purpose of the Basel III Accord?
- A Regulating international trade
 - B Strengthening bank capital requirements
 - C Promoting renewable energy
 - D Reducing global poverty

Correct Option(s): B

English

- Q4. Which gas is responsible for the depletion of the ozone layer?
- A Carbon Dioxide
 - B Methane
 - C Chlorofluorocarbons (CFCs)
 - D Nit

Correct Option(s): C

English

- Q5. Which is the largest stock exchange in the world by market capitalization?
- A NASDAQ
 - B New York Stock Exchange (NYSE)
 - C London Stock Exchange
 - D Tokyo Stock Exchange

Correct Option(s): B

English

- Q6. What does GDP stand for?
- A Gross Domestic Product
 - B General Development Plan
 - C Global Domestic Profit
 - D Government Development Program

Correct Option(s): A

English

- Q7. Which scientist proposed the theory of relativity?
- A Isaac Newton
 - B Albert Einstein
 - C Stephen Hawking
 - D Nikola Tesla

Correct Option(s): B

English

Q8. What is the unit of electrical resistance?

- A Volt
- B Ampere
- C Ohm
- D Watt

Correct Option(s): C

English

Q9. Which is the smallest continent by land area?

- A Africa
- B Europe
- C Australia
- D Antarctica

Correct Option(s): C

English

Q10. Who was the first Emperor of the Maurya Dynasty in India?

- A Ashoka
- B Chandragupta Maurya
- C Harsha
- D Samudragupta

Correct Option(s): B

English

- Q1. What is the ideal temperature range for most domesticated livestock in their housing?
- A 50-60°F
 - B 75-85°
 - C 20-30°F
 - D 90-100°F

Correct Option(s): B

English

- Q2. How many generations need to be inbred to create a genetically homogenous strain?
- A 10
 - B 15
 - C 20
 - D 30

Correct Option(s): C

English

- Q3. Which biosafety level (BSL) is primarily designated for research involving highly infectious agents that pose a significant risk to health and the community?
- A BSL-4
 - B BSL-3
 - C BSL-2
 - D BSL-1

Correct Option(s): A

English

- Q4. The resolution power of a microscope means the capacity to
- A Magnify the image
 - B distinguish between organelles
 - C distinguish between two objects
 - D distinguish between two points

Correct Option(s): C

English

- Q5. Which enzyme is responsible for synthesizing RNA from a DNA template?
- A DNA polymerase
 - B RNA polymerase
 - C Ligase
 - D Helicase

Correct Option(s): B

English

- Q6. What solution is used to maintain sterility in labs?
- A Sodium Chloride
 - B Sodium Hypochlorite
 - C Sodium Cyanide
 - D Sodium Sulphate

Correct Option(s): B

English

- Q7. What sequence is a palindrome?
- A 5'-ACGGATTCGC-3'
 - B 5'-ATC-3'
 - C 5'-CCATT-3'
 - D 5'-AGGCCT-3'

Correct Option(s): D

English

- Q8. Motility of the bacteria can be observed by:
- A. Hanging drop method
 - B. Soft agar method
 - C. Both "A" and "B"
 - D. Pour plate method

Correct Option(s): C

English

- Q9. _____ is the killing of all microorganisms both in vegetative and sporing states.
- A. Disinfection
 - B. Pasteurization
 - C. Sterilization
 - D. Antisepsis

Correct Option(s): C

English

- Q10. The limited replicative capacity of human cells in culture is called
- A. Hayflick effect
 - B. Brownian effect
 - C. Contact inhibition
 - D. None of the above

Correct Option(s): A

English

- Q11. Which method is unsuitable for introducing exogenous DNA into a zygote?
- A. Transduction
 - B. Conjugation
 - C. Electroporation
 - D. Microinjection

Correct Option(s): B

English

- Q12. Proteins A, B, C, and D are fractionated by gel filtration chromatography using a Sephadex G-200 column and elute sequentially as $A \rightarrow B \rightarrow C \rightarrow D$. If all proteins are monomeric and globular, which one would exhibit the least mobility during SDS-PAGE?
- A. A
 - B. B
 - C. C
 - D. D

Correct Option(s): A

English

- Q13. DNA adopts a left-handed helical conformation in which of the following forms?
- A. A-DNA
 - B. B-DNA
 - C. Z-DNA
 - D. C-DNA

Correct Option(s): C

English

- Q14. Which of the following is not correct?
- A. Transcription takes place in the nucleus of eukaryotic cells.
 - B. In prokaryotes mRNA is not capped
 - C. Translation in eukaryotes takes place in the nucleus
 - D. In prokaryotes DNA is replicated in the cytoplasm

Correct Option(s): C

English

- Q15. If one cell undergoes n successive cycles of binary division, with each cell dividing into two cells per cycle, what will be the total number of cells formed?
- A 2^2
 - B n^n
 - C n^2
 - D 2^n

Correct Option(s): D

English

- Q16. What will be the final concentration of NaCl after mixing 10 mL of 10 mM NaCl solution with 990 mL of 10 mM NaCl solution?
- A 0.1 mM
 - B 0.1 M
 - C 0.01 M
 - D 1.0 mM

Correct Option(s): C

English

- Q17. Antibody diversity is an example of
- A Gene rearrangement
 - B Post translational modification
 - C Domain swapping
 - D Proteolytic processing

Correct Option(s): A

English

- Q18. During the synthesis of glycoproteins, in which intracellular organelle are carbohydrate moieties attached to proteins?
- A Mitochondria
 - B Lysosome
 - C Nucleus
 - D Golgi complex

Correct Option(s): D

English

- Q19. Bacteria protect themselves from viruses by fragmenting viral DNA with _____
- A Ligase
 - B Exonuclease
 - C Endonuclease
 - D Gyrase

Correct Option(s): C

English

- Q20. The DNA fragments have sticky ends due to _____
- A Endonuclease
 - B Unpaired bases
 - C Calcium ions
 - D Free methylation

Correct Option(s): B

English

- Q21. The Taq polymerase enzyme is obtained from
- A *Thermus aquaticus*
 - B *Thiobacillus ferrooxidans*
 - C *Bacillus subtilis*
 - D *Pseudomonas subtilis*

Correct Option(s): A

English

- Q22. DNA fragments separated on an agarose gel can be visualized after staining with ____
- A Ethidium bromide
 - B Bromophenol blue
 - C Acetocarmine
 - D Aniline blue

Correct Option(s): A

English

- Q23. A single strand of nucleic acid tagged with a radioactive molecule is called
- A Plasmid
 - B Probe
 - C Selectable marker
 - D Vector

Correct Option(s): B

English

- Q24. What is the ideal temperature range for most domesticated livestock in their housing?
- A 50-60°F
 - B 75-85° F
 - C 20-30°F
 - D 90-100°F

Correct Option(s): B

English

- Q25. Which committee ensures ethical use of animals in a research facility?
- A Institutional Animal Ethics Committee (IAEC)
 - B Food Safety and Standards Authority (FSSA)
 - C Animal Welfare Board of India (AWBI)
 - D Institutional Biosafety Committee (IBSC)

Correct Option(s): A

English

- Q26. Which of the following is considered a biosafety level (BSL) 2 pathogen?
- A HIV
 - B Ebola virus
 - C Salmonella
 - D Mycobacterium tuberculosis

Correct Option(s): C

English

- Q27. The association of histone H1 with a nucleosome indicates ____
- A DNA is condensed into chromatin fibres
 - B Transcription is in progress
 - C DNA replication is in progress
 - D DNA double helix is exposed

Correct Option(s): A

English

- Q28. Separation of single bacterial colony is called
- A pure culturing
 - B separation
 - C isolation
 - D All of these

Correct Option(s): C

English

- Q29. Which of the following is easy and rapid method to interpret viability of cells in culture system
- A Trypan blue dye exclusion
 - B Neutral red assay
 - C Fluorescein dye assay
 - D All of the following

Correct Option(s): A

English

- Q30. Which technique is commonly used for high-throughput DNA sequencing?
- A Polymerase Chain Reaction (PCR)
 - B Next- Generation Sequencing (NGS)
 - C Gel Electrophoresis
 - D Sanger sequencing

Correct Option(s): B

English

- Q31. The PCR technique was developed by
- A Kohler
 - B Altman
 - C Milstein
 - D Kary Mullis

Correct Option(s): D

English

- Q32. Molecular beacons are short
- A Polysaccharides
 - B Monosaccharides
 - C Oligonucleotides
 - D Phospholipids

Correct Option(s): C

English

- Q33. What challenge is associated with interpreting sequencing data?
- A Limited sample availability
 - B High cost of reagents
 - C Vast amount of data generated
 - D Slow sequencing technology

Correct Option(s): C

English

- Q34. What does the term “shotgun sequencing” refer to in DNA sequencing?
- A Sequencing a specific targeted region of DNA
 - B Random sequencing of overlapping DNA fragments
 - C Sequencing multiple DNA fragments in parallel
 - D Sequencing long-read DNA fragments

Correct Option(s): B

English

- Q35. If the eyepiece magnification on light microscope is x10 and the objective is x40, what is the overall magnification?
- A X10
 - B X40
 - C X400
 - D X4

Correct Option(s): C

English

- Q36. Resolving power of a microscope depends upon
- A The focal length and aperture of the eye lens
 - B The focal length and objective of the eye lens
 - C The apertures of the objective and the eye lens
 - D The wavelength of light illuminating the object

Correct Option(s): D

English

- Q37. The primary barrier used to protect laboratory personnel when handling airborne pathogen is:
- A Gloves
 - B Fume hood
 - C Biological safety cabinet (BSC)
 - D Autoclave

Correct Option(s): C

English

- Q38. During which phase of the cell cycle does DNA replication occur?
- A G1 phase
 - B S phase
 - C G2 phase
 - D M phase

Correct Option(s): B

English

- Q39. Which enzyme is responsible for unwinding the DNA double helix during replication?
- A DNA polymerase
 - B Primase
 - C Ligase
 - D Helicase

Correct Option(s): D

English

- Q40. Which type of DNA structure is found in most living organisms?
- A A-DNA
 - B B-DNA
 - C Z-DNA
 - D Circular DNA

Correct Option(s): B

English

- Q41. Protein folding is assisted by:
- A Chaperones
 - B DNA ligase
 - C Ribosomes
 - D Histones

Correct Option(s): A

English

- Q42. Protein-protein interactions can be studied by:
- A Co-immunoprecipitation
 - B PCR
 - C Sanger sequencing
 - D RAPD

Correct Option(s): A

English

- Q43. The start codon for translation is:
- A UAA
 - B AUG
 - C UGA
 - D UAG

Correct Option(s): B

English

- Q44. ABO blood groups in humans are controlled by the gene I. It has three alleles – IA, IB and i. Since there are three different alleles, six different genotypes are possible. How many phenotypes can occur.
- A Three
 - B One
 - C Four
 - D Two

Correct Option(s): C

English

- Q45. Colchicine, a mitotic poison, arrests the cell division in_____.
- A G1 – Phase
 - B G2 – Phase
 - C Anaphase
 - D Metaphase

Correct Option(s): D

English

- Q46. Which type of chromosome will appear “L” shaped during anaphase ?
- A Telocentric
 - B Acrocentric
 - C Submetacentric
 - D Metacentric

Correct Option(s): C

English

- Q47. The protein part of enzyme is known as
- A Holoenzyme
 - B Apoenzyme
 - C Isoenzyme
 - D All of the above

Correct Option(s): B

English

- Q48. Paracrine are
- A growth factors
 - B G protein pathways
 - C epinephrine
 - D detects target cell

Correct Option(s): A

English

- Q49. Centromere is required for
- A movement of chromosomes towards poles
 - B cytoplasmic cleavage
 - C crossing over
 - D transcription

Correct Option(s): A

English

- Q50. Cytoskeleton is made up of:
- A Callose deposits
 - B Cellulosic microfibrils
 - C Proteinaceous filaments
 - D Calcium carbonate granules

Correct Option(s): C

English

- Q51. The 260/280 nm ratio less than 1.8 for a DNA sample reflects
- A. Protein contamination
 - B. RNA contamination
 - C. Both A and B
 - D. None

Correct Option(s): A

English

- Q52. Monoclonal antibodies are produced by
- A. Hybridomas
 - B. Lymphocytes
 - C. Myeloma cell
 - D. Plasma cells

Correct Option(s): A

English

- Q53. Chronic infection has
- A. Short duration
 - B. Long duration
 - C. Restriction to limited area
 - D. All of the above

Correct Option(s): B

English

- Q54. The Philadelphia chromosome is associated with which type of cancer
- A. Breast
 - B. Thyroid
 - C. Nerve
 - D. Leukemia

Correct Option(s): D

English

- Q55. A restriction enzyme AluI with a 4-bp recognition site produces restriction site produces restriction fragments that should have average size of
- A. 4096 bp
 - B. 256 bp
 - C. 16 bp
 - D. 436 bp

Correct Option(s): B

English

- Q56. DNA of a bacterium is not cleaved by its own restriction enzymes because the recognition DNA sequences are
- A. methylated
 - B. deleted
 - C. bound by inhibitory proteins
 - D. Not accessible to restriction enzymes

Correct Option(s): A

English

- Q57. The DNA fingerprinting process involves
- A. Chain terminators
 - B. Degenerate oligonucleotides
 - C. VNTR loci
 - D. RFLPs

Correct Option(s): C

English

- Q58. The Human genome project officially began in
- A 1988
 - B 1990
 - C 1992
 - D 1995

Correct Option(s): B

English

- Q59. For histological studies tissues are sectioned by using
- A Blade
 - B Razor
 - C Knife
 - D Microtome

Correct Option(s): D

English

- Q60. Visible light's wavelength range
- A 0.39-0.77 mm
 - B 0.39-0.77 μm
 - C 0.39-0.77 nm
 - D 0.39-0.77 cm

Correct Option(s): B

English

- Q61. Immunoprecipitation involves the purification of
- A antigen
 - B antibody
 - C antigen and antibodies
 - D antigen-antibody complexes

Correct Option(s): D

English

- Q62. Genetic drift is caused by
- A Mutations
 - B the bottle neck effect
 - C non-random mating
 - D a small population size

Correct Option(s): D

English

- Q63. The infectious substance of prions is
- A Protein
 - B Glycophosphate
 - C RNA
 - D DNA

Correct Option(s): A

English

- Q64. Most cases of Down's syndrome are caused by the presence of a third copy of chromosome 21 associated with the chromosome 21 pair. This genetic condition known as trisomy 21, is caused by
- A Frame-shift mutation
 - B Chromosome non-disjunction
 - C Fragile X-syndrome
 - D Chromosome translocation

Correct Option(s): B

English

- Q65. Extrachromosomal inheritance is the characteristics of
- A Virus
 - B Archaeobacteria
 - C prokaryotes
 - D Eukaryotes

Correct Option(s): D

English

- Q66. Which of the following process would not contribute to genetic variation within bacterial population?
- A Transduction
 - B Transformation
 - C Meiosis
 - D Mutation

Correct Option(s): C

English

- Q67. Which of the following would never be an episome?
- A an F plasmid
 - B a prophage
 - C a provirus
 - D a virulent phage

Correct Option(s): D

English

- Q68. A son inherits colour blindness from his
- A Mother
 - B Father
 - C mother only if she is colour blind
 - D father only if she is colour blind

Correct Option(s): A

English

- Q69. A cell increase in volume when it is place in
- A hypertonic solution
 - B hypotonic solution
 - C isotonic solution
 - D None of these

Correct Option(s): B

English

- Q70. Osmosis is the diffusion of
- A Water
 - B Solute particles
 - C gases
 - D energy

Correct Option(s): B