

**Multiple Choice Questions for screening test for the post of  
Project Scientist, GUJCOST**

**Name of the candidate:**

**TIME ALLOWED: 2 HOURS  
MAXIMUM MARK :100**

**General Instructions:**

- The examination is of 2 hours duration.
- Each question is a multiple-choice question with four answer choices. Read each question and answer choice carefully and ( ) mark the correct one.
- Mark one box only to indicate the correct answer for each question.
- Write your name properly on the answer sheet.
- Use of calculators or any electronic gadgets is not permitted inside the examination hall.
- The question paper consists of 100 questions.

**1. Headquarter of the WIPO is located at :**

- A) Washington
- B) Geneva
- C) Paris
- D) New York

**2. Khadi is:**

- A) Trademark
- B) Certification mark
- C) Collective mark
- D) Both (a) and (b)

**3. GI can be licensed?**

- A) Yes
- B) No
- C) In some cases Yes
- D) Yes but with stringent quality control

**4. Head office of National Biodiversity Authority situated at:**

- A) Mumbai
- B) Chennai
- C) Bangalore
- D) New Delhi

**5. As per The Patent Act, patent protection lasts for :**

- A) 10 Years
- B) 20 Years
- C) Life time + 60 Years
- D) Subject to popular need

**6. Design act does not protect :**

- A) Feature of shape
- B) Composition of lines or colours
- C) Mode or principle of construction
- D) None of the above

**7. Symbol of Maharaja of Air India is :**

- A) Copyright
- B) Patent
- C) Trademark
- D) None of the above

**8. Patent can claimed upon:**

- A) Machine
- B) Process
- C) Composition of matter
- D) All the above

**9. Intellectual Property Rights (IPR) protect the use of information and ideas that are of :**

- A) Commercial value
- B) Moral value
- C) Ethical value
- D) All the above

**10. Trademark Registry office situated at:**

- A) New Delhi
- B) Mumbai
- C) Ahmadabad
- D) Chennai

**11. Response to the First Examination Report (FER) can be filed within:**

- A) 06 months
- B) 12 months
- C) 18 months
- D) 24 months

**12. In India the first Copyright Act was passed in :**

- A) 1911
- B) 1952
- C) 1914
- D) 1953

**13. Prior Art includes:**

- A) Prior publication
- B) Prior use
- C) Prior knowledge
- D) All the above

**14. Patent application can be filed by:**

- A) True and First Inventor
- B) Assignee of the inventor
- C) Legal representative of the inventor
- D) All the above

**15. Maximum time period between filing of complete specification and provisional application:**

- A) 12 months
- B) 36 months
- C) 48 months
- D) 9 months

**16. Rajiv Gandhi National Institute for Intellectual Property Management (RGNIIPM) is located at :**

- A) Mumbai
- B) Kolkata
- C) Bhopal
- D) Nagpur

**17. Pre grant opposition in case of patent can be filed by:**

- A) Any person
- B) Person with vested interest
- C) Controller
- D) Government

**18. Can the granted patent be revoked? :**

- A) Yes
- B) No
- C) Yes, in some cases
- D) Only after 10 years

**19. Offices of the Indian Patent Offices are situated at :**

- A) Delhi, Mumbai, Kolkata, Hyderabad
- B) Delhi, Mumbai, Bhopal, Chennai
- C) Delhi, Mumbai, Kolkata, Chennai
- D) Delhi, Mumbai, Guwahati, Bangalore

**20. In which year India joined Paris Convention :**

- A) 2000
- B) 1996
- C) 2001
- D) 1998

**21. What does the right of priority applies to :**

- A) Tenure of patent
- B) Geographical reach of patent
- C) Date of Application
- D) Patent clearance schedule

**22. The time limit for filing PCT national phase application in India is:**

- A) 18months
- B) 36 months
- C) 12 months
- D) 31 months

**23. Inventor from the Assam state can apply the patent application for his invention at:**

- A) Any Indian Patent office
- B) Delhi Office only
- C) Kolkata Office only
- D) None of the above

**24. India is a member of:**

- A) PCT
- B) Paris Convention
- C) Strasbourg Agreement
- D) All the above

**25. A complete specification must disclose:**

- A) All the methods of performing of invention
- B) All anticipated uses of the invention
- C) The best method of performing of invention
- D) All the above

**26. What can prevent a patent from being issued?:**

- A) It is an obvious improvement
- B) Cannot be reduced to practice
- C) There is something similar already patented
- D) All the above

**27. The patent holder can grant license to :**

- A) To registered companies
- B) To natural persons
- C) To anyone
- D) To anyone, but only after due permission from the Controller.

**28. A patent application was filed in February 2000. The patent was granted in September 2001. The patent would be valid until:**

- A) 2019
- B) 2021
- C) 2020
- D) None of the above

- 29. What is the major difference between patent and copyright :**
- A) Grant
  - B) Commercial value
  - C) Exclusivity
  - D) Novelty
- 30. Which of the following is the oldest convention for patent protection :**
- A) Rome convention
  - B) Berne convention
  - C) Paris convention
  - D) TRIPS
- 31. Which form is applicable for Request for Examination of application for patent in India?**
- A) Form 04
  - B) Form 18
  - C) Form 22
  - D) Form 26
- 32. For its registration to be valid, a design must:**
- A) Create an overall expression
  - B) Industrial application
  - C) Dictated by product technical function
  - D) All the above
- 33. The term “WIPO” stands for:**
- A) World Investment Policy Organization
  - B) World Intellectual Property Organization
  - C) Wildlife Investigation and Policing organization
  - D) World Institute for Prevention of organized crime
- 34. Which of the following is an “Intellectual property” as per IPR Laws in India:**
- A) Original literary work;
  - B) Industrial Design of Maruti 800 car;
  - C) Trademark of Tata company
  - D) All the above
- 35. Which of the following is not an intellectual property law? :**
- A) Copyright Act, 1957
  - B) Trademark Act, 1999
  - C) Patent Act, 1970
  - D) Customs Act, 1962
- 36. Copyright law applies to forms of expression contained in, :**
- A) Song lyrics and musical compositions
  - B) Sculptures and paintings
  - C) Dramatic and literary works
  - D) All of the above

- 37. Which form is applicable for Application for Restoration of Patent in India? :**
- A) Form 13
  - B) Form 15
  - C) Form17
  - D) Form 09
- 38. As per Indian law, term of copyright for an author lasts how long?**
- A) The life of the author
  - B) The life of the author plus 60 years
  - C) 95 years
  - D) 75 years
- 39. The rights of a patentee are:**
- A) Sell or distribute
  - B) License
  - C) Assign the property to others
  - D) All of the above
- 40. In your view, who can be the right holder of IPR?**
- A) Owner of the intellectual property.
  - B) The successor in title of the owner of intellectual property.
  - C) A licensee duly authorized by the owner of the intellectual property.
  - D) All the above
- 41. An invention for patent was awarded by Indian Patent Office is protected in:**
- A) All ASEAN countries territories
  - B) All countries that adhere to TRIPS
  - C) In India only
  - D) All of the above
- 42. As per The Patent Act, 1970 the first compulsory licence granted in India to:**
- A) Natco Pharma on 9<sup>th</sup> March,2012
  - B) Cipla on 9<sup>th</sup> March, 2012
  - C) Glenmark on 27<sup>th</sup> January, 2009
  - D) None of the above
- 43. The “invention” as per Patent Act, 1970 incorporates:**
- A) Capable of Industrial application
  - B) An inventive step
  - C) A new product or process
  - D) All of the above
- 44. When a patent completes its full term of 20 years within the provision Act, it:**
- A) May be renewed for further period of 10 years
  - B) May be renewed only under special circumstances
  - C) May be renewed for a period of 5 years
  - D) shall not be renewed

- 45. An appeal may be filed against decision of Controller as per The Patent Act before:**
- A) High Court
  - B) Intellectual Property Appellate Board
  - C) District Court
  - D) All of the above
- 46. Grounds for granting of compulsory licence on Patent as per The Patent Act are:**
- A) That the patented invention is imposed with immediate effect
  - B) That the patented invention is not available to the public at reasonably affordable price
  - C) That the patented invention is reserved for non-commercial purpose
  - D) All of the above
- 47. As per the Patent Act, Register of Patents shall contain:**
- A) Revocation of Patents
  - B) Notification of assignments and of transmissions of Patents
  - C) Name and addresses of grantees of Patents
  - D) All of the above
- 48. One PCT application with US priority is filed on 21.10.2010 and filing National Phase application in India the applicant needs to file within:**
- A) 21.05.2013
  - B) 21.05.2014
  - C) 21.05.2015
  - D) 21.05.2012
- 49. Prior Art does not include:**
- A) Knowledge disclosed in publications
  - B) Knowledge disclosed only to closed group of members bound by non-disclosure agreement
  - C) Knowledge disclosed only in patents
  - D) Knowledge available in the public domain
- 50. A new ester of a known medicine with a carboxylic acid chain is patentable if:**
- A) It shows significantly improved therapeutic efficacy than the said acid
  - B) It shows higher melting point
  - C) It has a better solubility
  - D) None of the above
- 51. Which one of the following human serum immunoglobulins takes part in classical complement fixation pathways ?:**
- A) IgD
  - B) IgE
  - C) IgA
  - D) IgG
- 52. Mammillary bodies are present in :**
- A) thalamus
  - B) epithalamus
  - C) hypothalamus
  - D) midbrain

**53. Identify the plant species from which the artemisinin, an anti-malarial drug is extracted:**

- A) *Artemisia annua*
- B) *Artemisia maritima*
- C) *Artemisia scoparia*
- D) *Cinchona officinalis*

**54 The energy rich fuel molecules produced in the TCA cycle are:**

- A) Three NADH, one FADH<sub>2</sub>, and one GTP
- B) Two NADH, one FADH<sub>2</sub>, and one GTP
- C) Two NADH, Two FADH<sub>2</sub>, and Two GTP
- D) Two NADH, one FADH<sub>2</sub>, and Two GTP

**55. Which one of the following is not the bacterial disease:**

- A) Tuberculosis
- B) Typhoid
- C) Tetanus
- D) Small pox

**56. The second messenger, which opens calcium ion pores in endoplasmic reticulum and plasma membrane is:**

- A) Diacylglycerol
- B) cAMP
- C) Inositol trisphosphate
- D) Diacylglycerol trisphosphate

**57. Which one of the following is most powerful buffer system of blood? :**

- A) Bicarbonate
- B) Phosphate
- C) Protein
- D) Haemoglobin

**58 The phylum in which animals are bilaterally symmetrical in larval stage and radially symmetrical in adult stage:**

- A) Echinodermata
- B) Nematoda
- C) Mollusca
- D) Coelenterata

**59. The Dye used in gram staining is :**

- A) Crystal violet
- B) Rhodamine
- C) Methylene blue
- D) Geisma



**60 Which of the following is not associated with insulin action? :**

- A) Increased glucose transport
- B) Increased glycogen formation
- C) Enhanced lipolysis in adipose tissue
- D) Decreased rate of gluconeogenesis

**61. The wings of insects and wings of bats represent a case of ? :**

- A) Divergent evolution
- B) Convergent evolution
- C) Parallel evolution
- D) Neutral evolution

**62. Temperature above which gas cannot be liquefied even by applying pressure is termed as :**

- A) Critical temperature
- B) Boyle temperature
- C) Curie temperature
- D) Charles temperature

**63. A document containing a comprehensive account of a specific taxonomic group, generally a genus or family is:**

- A) Flora
- B) Manual
- C) Monograph
- D) Revision

**64. Which among the following is considered the demerit of Engler and Prantl system of classification:**

- A) Gymnosperms are placed between Monocotyledons and Dicotyledons
- B) Gymnosperms are placed among Dicotyledons
- C) Dicotyledons are placed before Monocotyledons
- D) Dicotyledons are placed after Monocotyledons

**65. Which group of vertebrates comprises the highest number of endangered species? :**

- A) Mammals
- B) Fishes
- C) Reptiles
- D) Birds

**66. Penalty for contravention of the provisions of the Biodiversity Act 2002 is given in :**

- A) Section 35
- B) Section 29
- C) Section 15
- D) Section 55

**67. According to Conservation International (CI), to qualify as a hotspot a region must meet two strict criteria:**

- A) it must contain at least 1,500 species of vascular plants ( $> 0.5\%$  of the world's total) as endemics, and it has to have lost at least 70% of its original habitat.
- B) it must contain at least 3,000 species of vascular plants ( $> 0.10\%$  of the world's total) as endemics, and it has to have lost at least 80% of its original habitat.
- C) it must contain at least 4,500 species of vascular plants ( $> 0.15\%$  of the world's total) as endemics, and it has to have lost at least 80% of its original habitat.
- D) it must contain at least 6,000 species of vascular plants ( $> 0.20\%$  of the world's total) as endemics, and it has to have lost at least 90% of its original habitat.

**68. The newly collected specimen which is used as a substitute when the original type material is missing in a herbarium, is designated as :**

- A) Lectotype
- B) Holotype
- C) Isotype
- D) Neotype

**69. Principals of numerical taxonomy were developed by :**

- A) Bentham & Hooker
- B) Engler & Prantl
- C) Sneath & Sokal
- D) Takhtajan & Cronquist

**70. Who wrote the book 'Species Plantarum':**

- A) Gaspard Bauhin
- B) Rivinus
- C) Carolus Linnaeus
- D) Bentham & Hooker

**71. Acer rubrum is the genus and species of what tree?:**

- A) Redwood
- B) Red maple
- C) Red mulberry
- D) Redbud

**72. Number of families included under Gymnosperms are:**

- A) 3
- B) 6
- C) 12
- D) 9

**73. Which of the following is the first missile which has been developed in India?**

- A) Akash
- B) Prithvi
- C) Agni
- D) Trishul

**74. Who is the present Governor of Gujarat?**

- A) Kamala Beniwal
- B) Om Prakash Kohli

- C) Acharya Dev Vrat
- D) None of the above

**75. Number of Union Territories in India**

- A) 7
- B) 9
- C) 8
- D) 6

**76. Who is the Chief Executive Officer of NITI Aayog?**

- A) Dr. Rajiv Kumar
- B) Shri V.K. Saraswat
- C) Shri Amitabh Kant
- D) Krishnamurthy Subramanian

**77. Indian Institute of Chemical Technology is located at**

- A) Chennai
- B) Hyderabad
- C) Mumbai
- D) Delhi

**78. Viruses were discovered by**

- A) Stanley
- B) Iwanowski
- C) Anton Van Leeuwenhook
- D) Twort

**79. Bentham and Hooker are associated with**

- A) Indian Botanical Garden
- B) Royal Botanical Garden
- C) American Botanical Garden
- D) French Botanical Garden

**80. A plot of soil contaminated with diesel oil was inoculated with oyster mushrooms. After 4 weeks, more than 95 percent of the polycyclic aromatic hydrocarbons has been reduced to nontoxic compounds. This process is called:**

- A) Phytoremediation
- B) Chemoremediation
- C) Mycoremediation
- D) Zooremediation

**81. Beating of cilia is regulated by :**

- A) Actin
- B) Myosin
- C) Cofilin
- D) Nexin

**82. Nitrogen gas is reduced to ammonia by nitrogen fixation method. In order to execute the process, which one of the following compound is usually required?:**

- A) ATP

- B) GTP
- C) UDP
- D) ADP

**83. Which species concept utilizes morphological and molecular characters to distinguish between species? :**

- A) Evolutionary
- B) Ecological
- C) Biological
- D) Phylogenetic

**84. Which one of the following mineral deficiency will be first visible in younger leaves ?**

- A) Calcium
- B) Nitrogen
- C) Molybdenum
- D) Zinc

**85. Brown ring test is confirmatory test for :**

- A) Nitrate
- B) carbonate
- C) Benzoate
- D) Silicate

**86. Which is not an insectivorous plant ? :**

- A) Drosera
- B) Rafflesia
- C) Utricularia
- D) Dendrophthoe

**87. In which ecosystem is the detrital pathways of energy flow most important?:**

- A) Lakes
- B) Grasslands
- C) Tropical rain forests
- D) Oceans

**88. Project Tiger is a tiger conservation programme by Govt of India was launched in**

- A) 1978
- B) 1973
- C) 1993
- D) None of the above

**89. Simlipal National Park is located in**

- A) Madhya Pradesh
- B) Chhattisgarh
- C) Odisha
- D) Jharkhand

**90. Which of the following is not a registered GI as per Sec 2 (f) of GI Act 1999**

- A) Jeeraphool
- B) Adilabad Dokra
- C) Waghya Ghevada

D) Surma

**91. Intellectual Property Office, India is a body under which ministry**

- A) Ministry of Science & Technology
- B) Ministry of Law and Justice
- C) Ministry of Commerce and Industry
- D) Ministry of Human Resource Development

**92. The Head quarter of Protection of Plant Variety and Farmers Rights Authority is located at**

- A) Delhi
- B) Kolkata
- C) Jabalpur
- D) Jaipur

**93. In a Village panchayat society 574 names are enlisted as 'below poverty level'. If 14% of the villagers are below poverty level, the total number of villagers is?**

- A) 4100
- B) 4200
- C) 4000
- D) 3800

**94. A man has some hens and some cows. If the total number of heads of hens and cows together is 50 and the number of feet of hens and cows together is 142, then the number of cows is:**

- A) 21
- B) 25
- C) 27
- D) 29

**95. Find the missing number in the given series:**

**2, 7, 10, 22, 18, 37, 26,**

- A) 52
- B) 42
- C) 62
- D) 46

**96. Find the missing word in the given series :**

**A, Z, C, Y, E, X, G,?**

- A) I
- B) W
- C) V
- D) O

**97. Find the odd one out:**

- A) A
- B) E

- C) O
- D) M

**98. Tricarboxylic acid cycle occurs in**

- A) Mitochondria
- B) Golgicomplex
- C) Endoplasmic reticulum
- D) None of the above

**99. If percentage of profit made, when an article is sold for Rs. 78, is twice as when it is sold for Rs. 69, the cost price of the article is:**

- A) Rs. 49
- B) Rs. 51
- C) Rs. 57
- D) Rs. 60

**100. A and B together can finish a work in 30 days. They worked for it for 20 days and then B left the work. The remaining work was done by A alone in 20 days more. In how many days can A alone finish the work?**

- A) 48 days
- B) 50 days
- C) 54 days
- D) 60 days