| Test Booklet No | |
|---------------------------------------|-------------------------|
| This booklet consists of 150 question | s and 18 printed pages. |
| RGUPET/2024/ / | |

RGUPET 2024 Common Entrance Test, 2024

DOCTOR OF PHILOSOPHY IN PLANT PATHOLOGY

| Hours | S: 150 | Time: 3 |
|--------------|---------------------|---------|
| Roll No. | | |
| Day and D | ate of Examination: | |
| Signature of | of Invigilator(s) | |
| Signature of | of Candidate | |
| Cononal In | gatur et en g | |

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. Candidate must write his/her Roll Number on the space provided.
- 3. This Test Booklet contains 150 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark.
- 4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
- 5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within two hour.
- 6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
- 8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
- 9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

| 1 | | | | | |
|---|--|--|--|--|--------|
| | If all cats are mammals, and some mammals are black, which of the following statements must be true? | | | | |
| | a) All cats are black. | b) Some cats are black. | c) All black animals are cats. | d) Some black animals are cats. | d |
| | black. | oldek. | animais are eats. | ammais are eats. | |
| 2 | There are two | statements marked a | as Assertion (A) and | Reason (R). Mark | |
| | • | per the codes provid | | | |
| | ` ' | evive the soil fertility | • | | |
| | | | f legumes fix the atr | | _ |
| | a) Both A and R are true | , | c) A is true but R is false. | d) A is false but R is true. | a |
| | and R are true | | is faise. | is true. | |
| | correct | explanation of A. | | | |
| | explanation | • | | | |
| | of A. | | | | |
| | | | | | |
| 3 | 1 | | bold letters to m | ake the sentence | |
| | | correct, choose the b | oest option 013 reaffirmed our b | pelief that there is a | |
| | | | tain its trust and c | | |
| | | ous communication. | | | |
| | - | st and credibility in t | | | |
| | · · · | trust and credibility | | | |
| | | on of trust and credil | | | |
| | a) Only (I) is | , , , , | , , , | d) No correction | a |
| | correct | correct | (II) are correct | required | |
| 4 | Pie in the sky? | | | | |
| | a) Something | b) Something not | c) Difficult to find | d) An easy | b |
| | very small | possible | | situation | |
| | | | | | |
| | | | | | |
| 5 | Which of the fo | l ollowing is a preposi | tion? | | |
| 5 | Which of the fo | ollowing is a preposi b) With | tion? c) Quickly | d) Happy | b |
| 5 | a) Jump | | | d) Happy | b |
| | a) Jump Please match th A. Isaac Newt | b) With ne correct answer con | c) Quickly i. Theory of Re | ativity | b |
| | a) Jump Please match th A. Isaac Newt B. Albert Eins | b) With ne correct answer con stein | i. Theory of Reii. Theory of Evo | ativity | b |
| | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da | b) With ne correct answer con stein crwin | i. Theory of Reii. Theory of Eviii. God Particle | lativity olution | b |
| | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede | b) With ne correct answer con stein rwin rman | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moti | ativity olution on | b |
| | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, | b) With ne correct answer ton stein rwin rman b) C-i, D-ii, A-iii, | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moticol B-i, C-ii, D- | lativity olution on d) A-I, B-ii, C-iii, | |
| | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede | b) With ne correct answer con stein rwin rman | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moti | ativity olution on | b a |
| | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, B-iii, C-iv Which country | b) With ne correct answer con stein rwin rman b) C-i, D-ii, A-iii, B-iv will host the 2028 S | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moticolor C.) B-i, C-ii, D-iii, A-iv | lativity plution on d) A-I, B-ii, C-iii, D-iv | |
| 6 | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, B-iii, C-iv | b) With ne correct answer con stein rwin rman b) C-i, D-ii, A-iii, B-iv | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moticolor Color B-i, C-ii, D-iii, A-iv | lativity olution on d) A-I, B-ii, C-iii, | |
| 6 | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, B-iii, C-iv Which country a) Japan The Nobel Pear | b) With ne correct answer con stein rwin rman b) C-i, D-ii, A-iii, B-iv will host the 2028 S b) United States ce Prize 2023 was av | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moticolor C.) B-i, C-ii, D-iii, A-iv | dativity polution on d) A-I, B-ii, C-iii, D-iv d) Australia | a |
| 7 | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, B-iii, C-iv Which country a) Japan The Nobel Pea a) An | b) With ne correct answer con stein rman b) C-i, D-ii, A-iii, B-iv will host the 2028 S b) United States ce Prize 2023 was av b) An activist | i. Theory of Relii. Theory of Eviii. God Particle iv. Laws of Motico C. B-i, C-ii, D-iii, A-iv. Summer Olympics? c) France warded to? c) A journalist | dativity colution on d) A-I, B-ii, C-iii, D-iv d) Australia | a |
| 7 | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, B-iii, C-iv Which country a) Japan The Nobel Pea a) An organization | b) With ne correct answer con stein rman b) C-i, D-ii, A-iii, B-iv will host the 2028 S b) United States ce Prize 2023 was av b) An activist challenging | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moti c) B-i, C-ii, D-iii, A-iv Summer Olympics? c) France warded to? c) A journalist fighting for press | d) Australia d) A humanitarian | a |
| 7 | a) Jump Please match th A. Isaac Newt B. Albert Eins C. Charles Da D. Leon Lede a) D-i, A-ii, B-iii, C-iv Which country a) Japan The Nobel Pea a) An | b) With ne correct answer con stein rman b) C-i, D-ii, A-iii, B-iv will host the 2028 S b) United States ce Prize 2023 was av b) An activist | i. Theory of Reii. Theory of Eviii. God Particle iv. Laws of Moti c) B-i, C-ii, D-iii, A-iv Summer Olympics? c) France warded to? c) A journalist fighting for press | dativity colution on d) A-I, B-ii, C-iii, D-iv d) Australia | a |

| <u> </u> | change | | | | |
|----------|--|---|--|---|---|
| | awareness. | | | | |
| 9 | Which Indian project? | city recently launcho | ed the country's firs | t underwater metro | |
| | a) Mumbai | b) Kolkata | c) Chennai | d) Kochi | b |
| 10 | Who is the Go | vernor of Reserve Ba | ank of India (RBI) as | s of 2021? | |
| | a) Urjit Patel | b) Raghuram Rajan | c) Shaktikanta Das | d) Duvvuri Subbarao | С |
| 11 | "Operation Flo | od" is a | | | |
| | a) Mission to increase performance of the dairy sector | b) River Management Mission | c) Mission to save rain water for irrigation | d) Mission to increase underground water | a |
| 12 | Which of the f route to Tibet? | following passes in A | Arunachal Pradesh is | s a traditional trade | |
| | a) Bum La Pass | b) Sela Pass | c) Mechuka Pass | d) Kibithu Pass | a |
| 13 | • | , Indira Gandhi, titled 'Wheat Revolution | | | |
| | a) 1987 | b) 1975 | c) 1943 | d) 1968 | d |
| 14 | | ansad Adarsh Gram | | he | |
| | a) Vallabh Bhai Patel | b) Deen Dayal Upadhyay | c) Mahatma Gandhi | d) Vinayak Damodar Savarkar | С |
| 15 | | inaugurated the Ata I above an altitude of | | | |
| | a) Himachal Pradesh | b) Jammu and Kashmir | | d) Arunachal Pradesh | a |
| 16 | of A, B and C | es of A and B 4 year is 80 years. If prese B. find the present ag | ent age of C is equa | | |
| | a) 17 years | b) 24 years | c) 20 years | d) 22 years | b |
| 17 | Manoj gave 60% of his salary to his wife and invested rest amount in mutual funds. His wife spends 30% amount on grocery and 20% on rent. From remaining amount, she purchased gold worth Rs. 18000. Find salary of Manoj? | | | | |
| | a) Rs 60000 | b) 54000 | c) 64000 | d) 58000 | a |
| 18 | for 'x' days w | tk in 36 days while It hile B work for 'x+the value of x. | | • | |
| | a) 4 | b) 8 | c) 6 | d) 7 | С |

| 19 | If all A are B, and all B are C, which of the following statements must be true? | | | | |
|----|--|---|--|------------------------------|---|
| | a) All A are C. | b) Some A are C. | c) All C are A. | d) Some C are A. | a |
| 20 | | | BLE is coded as BUE ne logic MINOR wi | | |
| | a) JNQSP | b) JPNSQ | c) PNSJQ | d) PSNQJ | a |
| 21 | Replace the phrase printed in bold letters to make the sentence grammatically correct, choose the best option. How it is possible for a multi-edition newspaper to produce completely different newspapers for various cities? (I) Is it possible for (II) Does it possible to (III) How is it possible for a) Only (I) is b) Only (III) is c) Both (II) and d) No correction | | | | |
| | correct | correct | c) Both (II) and (III) are correct | d) No correction required | С |
| 22 | Match the programming languages with their primary use: A. Python B. JavaScript C. SQL iii General-purpose Programming iv Web Development (Behaviour) | | | | |
| | a) C -ii, D-ii, A-iii, B-iv | b) C-i, D-ii, A- iii, B-iv | c) B-i, C-ii, D-iii, A-iv | d) A-i, D-ii, C-iii, D-iv | a |
| 23 | An imaginary i | _ | | | |
| | a) Ultimate | b) Utopia | c) Flawless | d) Model | b |
| 24 | your answer as (A): Carbon me | statements marked a per the codes provide onoxide when inhale onoxide combines w | ed causes death. | Reason (R). Mark | |
| | a) Both A and R are true and R is the correct explanation of A. | b) Both A and R are true but R is not the correct explanation of A. | c) A is true but R is false. | d) A is false but R is true. | a |
| 25 | Replace the phrase printed in bold letters to make the sentence grammatically correct, choose the best option The "Hermit Kingdom" is increasingly isolating itself because of its nuclear ambition that threatens its neighbourhood and the world at large. (I) isolated because of (II) isolating themselves because of (III) isolated themselves because of their | | | | |
| | a) Only (I) is correct | b) Only (III) is correct | c) Both (I) and (II) are correct | d) No correction required | d |
| 26 | Which of the fo | ollowing best describ | bes plagiarism in res | earch? | |

| | 1 , | T | r | T | ı |
|----|------------------|-----------------------|-------------------------|-------------------------|----------|
| | a) | b) Falsifying or | _ | | c |
| | Conducting | fabricating data. | someone else's | relevant data in | |
| | experiments | | work or ideas as | research | |
| | without | | your own. | publications. | |
| | proper | | | • | |
| | authorization. | | | | |
| 27 | | purpose of obtaini | ing informed cons | ent from research | |
| 21 | participants? | purpose of obtain | ing informed const | ont from research | |
| | + | h) To motost | c) To inform | d) To accuracy | |
| | a) To ensure | b) To protect | / | d) To coerce | c |
| | participants | researchers from | 1 1 | participants into | |
| | are | legal liability. | the risks and | participating in | |
| | compensated | | benefits of | the research. | |
| | for their time. | | participation. | | |
| | | | | | |
| 28 | Spill the beans | ? | | | |
| | a) Waste | b) Give away a | c) Perform magic | d) Work hard | b |
| | money | secret | , , | , | |
| | money | 500101 | | | |
| 29 | Which wildlife | sanctuary in Arunac | hal Pradech ic know | n for its population | |
| 29 | of clouded lear | | mai i rauesii is kiiow | ii ioi its population | |
| | - | | a) D!L | d) Factor (| |
| | a) Pakke | , | c) Dibang | d) Eaglenest | a |
| | Wildlife | Wildlife | Wildlife | Wildlife | |
| | Sanctuary | Sanctuary | Sanctuary | Sanctuary | |
| | | | | | |
| 30 | What is the lon | gest river in the wor | ·ld? | | |
| | a) Mississippi | b) Nile | c) Amazon | d) Ganga | b |
| | | | | | |
| 31 | Which of the fo | ollowing is an examp | ole of a qualitative re | esearch method? | |
| | a) Surveys | b) Experiments | c) Case studies | d) Interview | С |
| | | o) Emperiments | o) case statics | <i>a)</i> 111001 (10 (1 | |
| 32 | Which of the | following is NOT | ` a characteristic c | of a well-designed | |
| 32 | experiment? | ionowing is ivo | a characteristic c | a wen designed | |
| | | b) Randomization | c) Bias | d) Control | 0 |
| | a) | b) Kandonnization | c) Bias | a) Collifor | С |
| 22 | Replicability | 11 ' ' NOT | 1 C 1 | . 1 40 | |
| 33 | | ollowing is NOT an | | | 1 |
| | a) Fabrication | b) Proper citation | c) Plagiarism | d) Falsification of | b |
| | of data | | | data | |
| | | | | | |
| 34 | What is the p | primary purpose of | research ethics tra | ining for graduate | |
| | students? | | | | |
| | a) To ensure | b) To promote | c) To increase | d) To secure | ь |
| | compliance | responsible | publication | funding for | |
| | with | conduct of | 1 2 | research projects | |
| | institutional | research | Carpar | 1030aron projects | |
| | | 103041011 | | | |
| 25 | policies | 1 | | | |
| 35 | State true or fa | | | | |
| | | y is published from | | | |
| | a. UK | | | | |
| | b. USA | | | | |
| | c. France | | | | |
| | d. German | ıy | | | |
| | a) Only a | b) only b | c) a and c | d) only d | b |
| L | , <i>,</i> | 1 / J = | | , <i>,</i> , | <u> </u> |

| 26 | The same decay | | DDD danian with 1 | 0 to a to a contact and 1 | |
|----|--|--|---|---------------------------|-----|
| 36 | replication is | ee of freedom for a | RBD design with 1 | 0 treatments and 4 | |
| | a) 27 | b) 36 | c) 30 | d) 40 | |
| | a) 21 | 0) 30 | (2) 30 | (a) 40 | a |
| 37 | International P | lant Protection Conv | rention (IPPC) came | into existence from | |
| 31 | a) April 4, | | c) July 4, 1984 | d) July 4, 1986 | a |
| | 1991 | 0) April 4, 1994 | C) July 4, 1964 | d) July 4, 1980 | a |
| 38 | | ical Society publishe | e which journal? | | |
| 30 | a) Virus | | | d) Archives of | ь |
| | Disease | of Virology | Virology | Virology | |
| | Discase | of virology | Vitology | Virology | |
| 39 | Indian Iournal | of Mycology and Pl | ant Pathology is pub | lished from | |
| 37 | a) Udaipur | b) New Delhi | c) Kolkata | d) Hyderabad | a |
| | a) Odarpur | b) New Belli | C) Korkata | d) Trydcrabad | a |
| 40 | The Indian Phy | tonathological Soci | ety was established l | <u> </u> | |
| 40 | a) E.J Butler | b) J.F Dastur | | d) T.S. Sadasivan | С |
| | a) L.3 Dutiei | O) J.1 Dastul | C) D.D. Wallakai | d) 1.5. Sadasivali | |
| 41 | Which of the fo | llowing is a promisi | ing area of research f | Cor controlling plant | |
| 71 | diseases? | mowing is a promisi | ing area of research i | or controlling plant | |
| | a) Traditional | b) Chemical | c) Gene editing | d) Mechanical | С |
| | breeding | fertilizers | techniques | cultivation | |
| | methods | Tertifizers | teeninques | Cultivation | |
| 42 | | statements marked a | as Assertion (A) and | Reason (R) Mark | |
| 72 | | per the codes provide | ` ' | r reason (re). Wark | |
| | _ | - | someone else's wor | rk ideas or words | |
| | | acknowledgment or | | ik, ideas, or words | |
| | | | on are essential to ma | aintain integrity and | |
| | | he original creators of | | and Bridge and | |
| | | · | c) A is true but R | d) A is false but R | b |
| | · / | true but R is not | ′ | is true. | |
| | | the correct | | | |
| | correct | explanation of A. | | | |
| | explanation | | | | |
| | of A. | | | | |
| 43 | | statements marked a | as Assertion (A) and | Reason (R). Mark | |
| | | per the codes provi | ` ' | | |
| | | | ss of assigning partic | cipants to groups or | |
| | | research study | C C1 | | |
| | | | d increasing the valid | dity of study results | |
| | | b) A and R are | | | a |
| | R are true and | | ′ | is true. | |
| | R is the | | | | |
| | 16 15 110 | the correct | | | i . |
| | correct | explanation of A. | | | |
| | | | | | |
| | correct | | | | |
| 44 | correct explanation of A. | explanation of A. | NOVA) is commor | aly used statistical | |
| 44 | correct explanation of A. A) Analysi | explanation of A. | | aly used statistical | |
| 44 | correct explanation of A. A) Analysi technique to ar | explanation of A. is of Variance (Analyze data from spli | t-plot designs | • | |
| 44 | correct explanation of A. A) Analyst technique to ar R) ANOV | explanation of A. is of Variance (Analyze data from spli | t-plot designs es multiple data grou | • | |
| 44 | correct explanation of A. A) Analysi technique to ar R) ANOV variability bety | explanation of A. is of Variance (All alyze data from splice A efficiently analyze | t-plot designs es multiple data grou thin samples | • | a |

| | R is the correct | the correct explanation of A. | | | |
|----|--|---|--|---|---|
| | explanation of A. | explanation of 11. | | | |
| 45 | A) Phytopa journals in the R) It cove | journals in the field of plant pathology. | | | |
| | a) Both A and R are true and R is the correct explanation of A. | b) A and R are true but R is not the correct explanation of A. | c) A is true but R is false. | d) A is false but R is true. | a |
| 46 | What are the li | mitations of journali | ng as a research tool | !? | |
| | a) Just because someone writes in a journal it may not be reflective | b) It creates additional work for students | c) Interviews provide better quality data | d) Reflection is not needed in any research project | a |
| 47 | Match the pairs | S: | | L | |
| | A. Turnitin B. Turabian C. Tukeys D. Using othe | rs research pictures | i Referencing stylii Plagiarism iii Plagiarism chec iv Post Hoc Test | | |
| | a) A-II, B-I, C-IV, D-III | b) A-III, B-IV, C-I, D-II | c) A-III, B-I, C-IV, D-II | d) A-III, B-IV, C-II, D-I | b |
| 48 | Questions here for assertion and justification A: Assertion Chicago is one of the kind of referencing style R: Justification Selection of referencing style, depends on journal or institutional guideline | | | | |
| | a) Both (A) and (R) are true R is the true explanation of A | b) Both (A) and (R) are true R is not the true explanation of A | , , , | d) (A) is false but (R) is true | b |
| 49 | According to refers to simila | UGC regulations 20 rities | 018 on plagiarism, | level-3 plagiarism | |
| | a) Below 10% | b) Above 10% to 30% | c) Above 40% to 60% | d) Above 60% | d |
| 50 | In experimenta | l research independe | ent variable represen | t | |
| | a) Cause | b) Relationship | c) Output | d) Deviation | a |
| L | 1 | | | ı | |

| 51 | Khaira disease of rice is caused due to the deficiency of | | | | |
|----------------|---|-----------------------------------|-----------------------|------------------------------|---|
| | a) Boron | b) Zinc | c) Magnesium | d) Manganese | b |
| | | | | | |
| 52 | | | und in fungal cell wa | | |
| | a) | b) Chitin | c) Lignin | d) Pectin | b |
| | Peptidoglyca | | | | |
| | n | | | | |
| 53 | | | as Assertion (A) and | Reason (R). Mark | |
| | • | per the codes provide | | | |
| | | sed by <i>Fusarium</i> sp. | | | |
| | | s a sclerotial pathog | | 1) A :- C-1 14 D | _ |
| | , · | , | c) A is true but R | | С |
| | | are true but R is | is faise. | is true. | |
| | and R is the | | | | |
| | correct explanation | explanation of A. | | | |
| | of A. | | | | |
| 54 | | ne correct answer | | | |
| J + | A. Citrus can | | Fungi | | |
| | B. Rust of wh | | i Bacteria | | |
| | C. Yellow vei | | ii Virus | | |
| | D. Root knot | | v Nematode | | |
| | | | c) A - iii, B - ii, C | d) A - iv. B - iii | b |
| | C -iii, D-iv | -iii, D-iv | -i, D-iv | C -ii, D-i | |
| | | 111, 25 1, | 1, 2 1, | | |
| 55 | When are seeds | s allowed to enter a | country without certi | ification? | |
| | | re pathogen-free. | J | | |
| | 1 | re certified by a fore | eign authority. | | |
| | 1 | _ | a phytosanitary certi | ficate. | |
| | 4. When they a | re of local origin. | | | |
| | | re visibly diseased. | | | |
| | a) Only 1, 2 | b) Only 2, 3 and 5 | c) Only 1, 2 and 3 | d) Only 1, 2, 3 | d |
| | and 5 are true. | are true. | are true | and 4 are true | |
| | | | | | |
| 56 | | scribes a network of | | | |
| | a) Thallus | b) Mycelium | c) Sclerotium | d) Rhizomorph | b |
| | TO I | | | | |
| 57 | | | as Assertion (A) and | Reason (R). Mark | |
| | • | per the codes provide | | | |
| | - · · · | king Virus reduce m | - | | |
| | | | market value of tulip | | d |
| | a) Both A and R are true | b) Both A and R are true but R is | · / | d) A is false but R is true. | u |
| | and R are true and R is the | not the correct | is faise. | is tiue. | |
| | | | | | |
| | correct | explanation of A. | | | |
| | explanation of A. | | | | |
| 58 | OI A. | | <u> </u> | | |
| 50 | | | | | |
| | A. Bordeaux 1 | mixture i | 1885 | | |
| | B. Irish Potato | | i 1844 | | |
| | C. Bengal Far | | ii 1943 | | |
| | | <u>-</u> | | | l |

| | D. Golden Ne | | v 1941 | | |
|----|--|--|--|---------------------------------------|---|
| | | b) A - ii, B - i, C -iii, D-iv | c) A - iii, B - ii, C -i, D-iv | d) A - i, B - ii, C -iii, D-iv | d |
| 59 | Please select th ITCC stands fo | e true statement | | | |
| | a) Indian Type Culture Collection. | , | , J | d)International Type Cell Collection. | a |
| 60 | There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below (A) Phytophthora is a soil borne pathogen. (R) Phytophthora producing sclerotia in soil. | | | | |
| | a) Both A and R are true and R is the correct explanation of A. | | · | d) A is false but R is true. | С |
| 61 | A. Phyllody B. Vein bendi C. Wilting D. Blast | ng ii ii i' | Virus i Mycoplasma ii Fungus v Bacteria and Fung | | |
| | a) A - ii, B - i, C -iv, D-iii | b) A - ii, B - i, C -iii, D-iv | c) A - iv, B - iii, C -ii, D-i | d) A - i, B - ii, C -iii, D-iv | a |
| 62 | 1.Complete con 2.Complete con 3.The fungal di 4.The fungus a | soil treatment chem ntrol of the plant disc ntrol of the plant disc sease is suppressed lways killed by the c destroy the nematod | ease is obtained. ease is not obtained. by the chemical. chemical. | | |
| | a) Only 2, 3 and 5 are true | | | d) All are true | a |
| 63 | What is the role a) To produce spores | b) To absorb nutrients from the host | gal structures? c) To support the fungal body | d) To store food reserves | b |
| 64 | What is the prin | mary mode of nutriti | on for fungi? | | |
| | a) Photosyntheti c | b) Absorptive | c) Ingestive | d) Chemo- synthetic | b |
| 65 | your answer as (A) Bacteria pr | statements marked a per the codes provided oduces endospore. are the manifestation | ded below | Reason (R). Mark | |

| 66 | | are true but R is not the correct explanation of A. | is false. | d) A is false but R is true. | c |
|----|---|---|---|------------------------------|---|
| | against pathoge a) Cuticle and epidermal cells | b) Sclerenchyma cells | • | d) Cork layers | С |
| 67 | Which of the form in plants | ollowing is a post-in | fectional structural of | defense mechanism | |
| | a) Cuticle | b) Tyloses | c) Waxes | d) Sclerenchyma cells | b |
| 68 | Which category | y of fungicides is eff | ective only when us | ed before infection | |
| | a) Protectants | b) Eradicants | c) Therapeutants | d) Antibiotics | a |
| 69 | | iven diseases is relat | - | | |
| | a) Leaf Rust | b) Late Blight | c) Canker | d) Ergot | d |
| 70 | your answer as (A) Virus infected c (R) virus is me | statements marked a per the codes provioc ted cells secrete prells from further vira sobiotic in nature. | led below oteins called interfe al infection. | rons which protect | |
| | a) Both A and R are true and R is the correct explanation of A. | | ′ | d) A is false but R is true. | d |
| 71 | Micro and mac | ro conidia are preser | ntin | | |
| | a) Alternaria | b) Aspergillus | c) Mucor | d) Fusarium | d |
| 72 | | following gills arep | T Comments of the comments of | | |
| | a) Aspergillus | b) Alternaria | c) Agaricus | d) Mucor | c |
| 73 | There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below (A) Cyanobacteria like Nostoc and Anabaena are used as biofertilizers. (R) Cyanobacteria absorb phosphorus from soil and passes it to crop. | | | | c |
| | and R are true and R is the correct explanation of A. | / | is false. | is true. | - |

| 74 | Please match th | ne correct answer | | | |
|---------|----------------------------------|-------------------------|------------------------|-----------------------|---|
| | A. Parasitic | i | Drosera | | |
| | B. Insectivoro | | i Yeast | | |
| | C. Saprophyti | c i | ii Lichen | | |
| | D. Symbiotic | | v Loranthus | | |
| | a) A - ii; B - i; | b) A - iii; B - ii; C | c) A - iii; B -ii; C | d) A - iv; B - i; C | d |
| | C - iii; D - iv | - iv; D - i | - i; D - iv | - ii; D – iii | |
| 75 | | ounted as the pest | | | |
| | a) Chemicals | b) Biological | c) Cultural | d) weeds | d |
| 76 | Example of pesticide includes | | | | |
| | a) Fungus | b) Bacteria | c) Nematode | d) Insecticide | d |
| 77 | Plant pathology | y is the study of | | | |
| | a) Bacteria | b) Fungi | c) Nematodes | d) Plant diseases | d |
| 78 | Nature of power | dery mildews and do | wny mildew fungus | are | |
| | a) Obligate | | c) Facultative | d) Facultative | a |
| | parasite | | parasite | saprophytes | |
| 79 | Mushroom is E | Enriched food | | I | |
| | a) Protein | b) Carbohydrates | c) Sugar | d) Starch | a |
| 80 | Which structure the host cuticle | e forms at the point of | of contact between a | n appressorium and | |
| | a) Haustorium | b) Penetration peg | c) Mycelial knot | d) Germ tube | b |
| 81 | | ften enter their hosts | through injuries ma | de by | |
| | | b) Pruning cuts | c) Insect vectors | d) Animal | С |
| | debris | , | , | grazing | |
| 82 | Lenticels serve involved in | as a potential entry | point for pathogen | s and are primarily | |
| | a) Water | b) Gas exchange | c) Nutrient | d) Light | b |
| | absorption | | transport | absorption | |
| 83 | Fusaric acid is | associated with which | ch type of toxin class | sification | |
| | a) Pathotoxin | | c) Vivotoxin | d) Mycotoxin | С |
| 84 | What is the terr living hosts? | n for fungi that norm | ally feed on dead ma | terial but can infect | |
| | a) Obligate | b) Facultative | c) Obligate | d) Facultative | d |
| | parasites | parasites | saprophytes | saprophytes | |
| 85 | What is the tec | hnical term for the s | exual stage of fungi | ? | |
| | a) Teleomorphi | b) Imperfect stage | | d) Eucarpic stage | a |
| <u></u> | c stage | | | | |

| 86 | Which group of plant pathogenic organisms includes both biotic and mesobiotic agents? | | | | | |
|-----|---|----------------------|---|--------------------------------------|---|--|
| | a) Fungi | b) Bacteria | c) Viruses | d) Algae | С | |
| 87 | What is the pur | pose of a sclerotium | in fungi? | | | |
| | a) To capture sunlight | | | d) To absorb nutrients | С | |
| 88 | There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below (A) All fungus are parasite. (R) All parasite are fungus. | | | | | |
| | a) Both A and R are true and R is the correct explanation of A. | | · / | d) A is false but R is true. | С | |
| 89 | The disease cha | aracterized by abnor | mal elongation of ric | ce seedlings is | | |
| | a) Moko disease | b) Wilt disease | c) Bakanae disease | d) Club root disease | С | |
| 90 | The first cytok | inin isolated was | | | | |
| | a) Zeatin | b) Kinetin | c) IPA | d) GA3 | b | |
| 91 | A. Plant virus | | | | | |
| | a) A-(iv), B- (iii), C-(ii), D-(i) | b) A-(iv), B-(ii), | v Tobacco mosaic c) A-(iii), B-(iv), C-(i), D-(i) | d) A-(ii), B-(iii), C-(iv), D-(i) | a | |
| 92 | Fruit cracking disease in tomatoes is mainly caused due to the deficiency of | | | | | |
| | a) Copper | b) Boron | c) Zinc | d) Molybdenum | b | |
| 93 | Which one is most important factor for development of plant diseases? | | | | | |
| ,,, | a) Animals | b) Human | c) Birds | d) Environmental parameters | d | |
| 94 | The green ear is a which type of disease? | | | | | |
| | a) Bacterial | b) Fungal | c) Viral | d) Protozoan | b | |
| 95 | Which scientist developed the Bordeaux mixture to combat downy mildew in vineyards? | | | | | |
| | a) Pierre- Marie-Alexis Millardet | b) Louis Pasteur | c) Gregor Mendel | d) Anton de Bary | a | |
| 96 | What phase fol | lows plasmogamy in | n the sexual reproduc | ction of fungi? | | |

| | a) Meiosis | b) Mitosis | c) Karyogamy | d) Germination | c |
|-----|--|--|--|--|---|
| 97 | Which type of | ı asexual spore is typi | cal in <i>Penicillium</i> ? | | |
| | a) Zoospores | b) Conidia | c) Sporangiospores | d) Chlamydospores | b |
| | | | ~ r | | |
| 98 | Which of the fo | ollowing is an examp | | | |
| | a) Accurately reporting experimental results. | b) Manipulating data to support desired conclusions. | | d) Including all relevant data in research publications. | b |
| 99 | Which of the fo | ollowing is an exam | ple of proper attribut | tion in research? | |
| | a) Presenting someone else's ideas without acknowledg ment. | b) Citing the original source | c) Using research findings without | | b |
| 100 | Mancozeb is a | formulation of | 1 | 1 | |
| | a) mancozeb and zinc | b) maneb and zinc ion | c) manganese and zinc | d) maneb and manzate | b |
| 101 | Which type of and is race-spe | resistance is typical cific? | ly governed by a sir | ngle or a few genes | |
| | a) Vertical resistance | b) Horizontal resistance | c)Tolerance resistance | d) Susceptibility resistance | a |
| 102 | What is the pri | mary mechanism res | sponsible for disease | escape in plants? | |
| | a) Thick cuticles | b) Hypersensitive reaction | c) Early maturity | d) Tissue culture | С |
| 103 | Which type o structures? | f fungal thallus is | entirely converted | into reproductive | |
| | a) Eucarpic | b) Plasmodial | c) Holocarpic | d) Unicellular | С |
| 104 | What is a septu | <u> </u> | | | |
| | a) A type of hypha | b) A reproductive structure | c) A partition in a hypha | d) A form of spore | С |
| 105 | your answer as (A) Saccharom (R) Fermentation | statements marked a per the codes provious cerevisiae is us on carried out by Ye | ded below sed for making bread ast enzymes produce | I. es CO ₂ . | |
| | a) Both A and R are true and R is the correct explanation of A. | b) Both A and R are true but R is not the correct explanation of A. | , | d) A is false but R is true. | С |

| 106 | Please match the correct answer | | | | | |
|-----|--|---|--------------------------------------|--------------------------------------|---|--|
| | A. Endosperm | n i | Carpel | | | |
| | B. Zygote ii Haploid | | | | | |
| | C. Stigma | | ii Nutrition | | | |
| | D. Gametes | | v Fertilisation | | | |
| | a) A- i, B - iv, C -iii, D - ii | b) A - ii, B - iii, C - iv, D - i | c) A - iii, B - iv, C - i, D - ii | d) A - iv, B - iii, C - ii, D - i | С | |
| 107 | Who is conside | ered the father of pla | nt pathology? | | | |
| | Bary | b) Louis Pasteur | c) Robert Hooke | d) Gregor Mendel | b | |
| 108 | Most of the pla | nt viruses contains? | | | | |
| | a) DNA | b) RNA | c) a and b | d) a or b | b | |
| 109 | Plant parasitic | nature of fungi was | proven by? | | | |
| | a) Anton de Bary | b) Louis Pasteur | c) P.A. Micheli | d) J.F. Kuhn | a | |
| 110 | Peach leaf curl | is caused by which | agent? | | | |
| | a) Virus | b) Bacteria | c) Phytoplasma | d) Fungi | b | |
| 111 | Rhizomorph is | characteristic to wh | ich of the following? |) | | |
| | a) Armallaria | | c) Verticillium | d) Claviceps | a | |
| 112 | Lemon shaped | sporangia is produc | ed by? | | | |
| | a) Albugo | b) Phytophthora | c) Phytium | d) peronospora | b | |
| 113 | The most sensi | tive factor for nemat | tode population is? | | | |
| | a) Temperature | b) Moisture | c) Rainfall | d) Light Intensity | a | |
| 114 | - | se of coconut is caus | ed by | | | |
| | | | c) Ditylenchus | d) Tylenchulus | a | |
| | Rhadinaphele nchus cocophilus | Bursaphelenchus xylophilus | similis | semipenetrans | | |
| 115 | - | of rice is caused by | r? | | | |
| | a) <i>Hirsc</i> | b) <i>Meloidog</i> | c) Heteroder | d) Ditylench | d | |
| | hemanniella oryzae | yne graminicola | a oryzae | us angustus | | |
| 116 | Stem and bulb nematode is | | | | | |
| | a) Dityle nchus dipsaci | b) Ditylench us angustus | c) Tylenchul us semipenetrans | d) Aphelenc hoides besseyi | а | |
| 117 | Father of seed pathology is | | | | | |
| | a) Mary Noble | b) Paul Neergard | c) V. K. Agarwal | d) L.C. Doyer | b | |
| 118 | State true or Fa Wilt causing Fa a. Macro o b. Micro o | <i>usarium</i> sp. in red gr conidia | ram produces | | | |

| | c. Micro, Macro and chlamydospores | | | | | | |
|-----|---|--|------------|-------------|----------|-------------|---|
| | | dospores | 1 | | | | |
| | a) Only | b) a and b | (c) | only c | d) | a and d | С |
| 119 | State true or fa | lse | • | | • | | |
| | Mycoplasma co | ontains | | | | | |
| | a. Lipids | | | | | | |
| | b. Sterols | | | | | | |
| | c. Caroter | nols | | | | | |
| | d. Lipids a | and sterols | | | | | |
| | a) Only | b) a and b | c) | only d | d) | a, b and c | d |
| | a | | | | | | |
| 120 | State true or fa | lse | | | | | |
| | Bdellovibrio ar | e gram negative bac | teria eati | ng | | | |
| | a. Gram n | egative bacteria | | | | | |
| | b. Gram p | ositive bacteria | | | | | |
| | c. Viruses | | | | | | |
| | d. Gram p | ositive and viruses | | | | | |
| | a) Only | b) Only b | c) : | a and b | d) | only d | a |
| | a | | | | | | |
| 121 | There are two | statements marked a | as Asserti | on (A) and | l Reason | (R). Mark | |
| | your answer as | per the codes provide | ded belov | V | | | |
| | A) The Be | ngal Famine is a bac | terial dis | ease | | | |
| | R) It cause | d an epidemic in the | year 194 | 12 | | | |
| | a) Both A and | b) Both A and R | c) A is | true but R | d) A is | false but R | d |
| | R are true and | are true but R is | is false. | | is true. | | |
| | R is the | not the correct | | | | | |
| | correct | explanation of A. | | | | | |
| | explanation | | | | | | |
| | of A. | | | | | | |
| 122 | There are two | statements marked a | as Asserti | on (A) and | l Reason | (R). Mark | |
| | • | answer as per the codes provided below | | | | | |
| | A) Hollings first reported mycovirus on cultivated mushroom | | | | | | |
| | • | es are viruses infect | | | , | | |
| | a) Both A and | , | | true but R | | false but R | a |
| | R are true and | | is false. | | is true. | | |
| | R is the | not the correct | | | | | |
| | correct | explanation of A. | | | | | |
| | explanation | | | | | | |
| 100 | of A. | | | | <u> </u> | | |
| 123 | Match the pairs | | • | D | | | |
| | A. Pahala | | I. | Boron | | | |
| | | rot of sugarbeet | II. | Molybde | num | | |
| | _ | tail of cauliflower | III. | Copper | | | |
| | D. Exantl | 1 | IV. | Mangane | | D IV. C | h |
| | a) A-III, | b) A-IV, B-I, C- | | B-I, C-III, | , | B-IV, C- | b |
| | B-I, C-IV, D- | II, D-III | D-IV | | II, D-II | 1 | |
| 104 | II | | | |] | | |
| 124 | Match the pairs | | .· | | • | N D | |
| | | al Potato Research In | | .4 | I. | New Del | |
| | B. Indian Type Culture Collection Centre II. Bangalor | | | | | e | |
| | C. Commonwealth Institute of Biological Control III. Mau | | | | | | |

| | D. Nation | nal Bureau of Agr | riculturally Importa | nt IV. Shimla | |
|-----|---|--|------------------------------------|------------------------------|---|
| | a) A-I, B-III, C-II, D-IV | b) A-IV, B-I, C-II, D-III | c) A-II, B-I, C-III, D-IV | C-II, D-III | b |
| 125 | The antagonist | ic activity between t | | e studied by | |
| | technique | b) Dual culture technique | c) Selective medium | d) EPN | a |
| 126 | The pore size | of filters used in the | laminar air flow cha | mber is | |
| | a) 0.3 µm | b) 0.03 μm | c) 3.0 µm | d) 1.25 μm | b |
| 127 | The most co preparation is | mmonly used mo | unting medium in | permanent slide | |
| | a) Congo red | b) Crystal violet | c) Lactophenol blue | d) Canada balsam | d |
| 128 | The solution u plant tissue is | sed to preserve the | green coloured dise | ased sample of the | |
| | a) Copper sulphate | b) Zinc chloride | c) Zinc sulphate | d) Formaldehyde | a |
| 129 | your answer as A) Aphids non- persistent | statements marked a per the codes provide are the only known manner equisition period is b | ded below vectors for transmitt | ing plant viruses in | |
| | | b) Both A and R are true but R is | c) A is true but R | | a |
| 130 | There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below A) Short distance movement occurs in plant viruses R) Intercellular communication is facilitated by plasmodesmata | | | | |
| | a) Both A and R are true and R is the correct explanation of A. | · / | / | d) A is false but R is true. | a |
| 131 | State true or fa Insect parasitiz a. Entomo b. Nemato c. Mycopa d. Mycovi | ing fungus is ogenous fungus ophagous fungus arasitic fungus fungus | c) a and c | d) only d | 2 |
| 132 | a) Only a State true or fa | , | c) a and c | d) only d | a |
| 132 | | ucifers enters the ho | st through | | |

| | a. Stomata | <u> </u> | | | |
|-----|---|---|------------------------|----------------------|---|
| | b. Root ha | | | | |
| | c. Lentice | | | | |
| | d. Wounds | | | | |
| | a) a and | | c) b and c | d) only d | b |
| | b | only o | c) bana c | d) omy d | |
| 133 | | toxin produced by b | acteria to inhihit the | e growth of similar/ | |
| 155 | | bacterial strain is | actoria to minore the | growin or similar, | |
| | a) Bacteriocin | | c) Siderophores | d) Bulbiformin | a |
| | a) Bucterioem | o) supomins | c) Siderophores | | |
| 134 | The chemical u | ised for cleaning gla | ssware is | | |
| | a) Formalin | b) Mercuric | | d) Sodium | С |
| | a) I omiami | chloride | dichromate | chloride | |
| | | • | | | |
| | | | | | |
| 135 | Complete resis | tance against pathog | en is provided by | <u> </u> | |
| | a) Multi | b) Qualitative | | d) Race-non | b |
| | gene | gene | gene | specific gene | |
| | 8 | 8 | 8 | | |
| 136 | Generally, true | resistance is control | led by the genes loc | ated in | |
| | a) Nucle | b) Chloropla | c) Mitochon | d) All of the | a |
| | us | st | dria | above | |
| | | | | | |
| 137 | The type of sec | retion system presen | t in almost all plant | pathogenic bacteria | |
| | is | , 1 | 1 | | |
| | a) Type I | b) Type II | c) Type III | d) Type IV | a |
| | , | , , , | , , , , | , | |
| 138 | The enzyme pl | aying most importan | t role in bacterial pa | thogenesis is | |
| | a) Cellul | b) Proteases | c) Pectinases | d) Xylanases | c |
| | ases | | | | |
| 139 | The pathogen k | known as "store hous | se of antibiotics" is | | |
| | a) Trich | b) Agrobacte | c) Pseudomo | d) Streptomyces | d |
| | oderma spp. | rium spp. | nas spp. | | |
| | | | | | |
| 140 | | ollowing micro-orga | nism is not harmful | to plants? | |
| | a) Rhizo | b) Rhizopus | c) Rhizobiu | d) Ralstonia | C |
| | ctonia | | m | | |
| 141 | Akiochi diseas | | | T | |
| | a) Sulph | b) Aluminiu | c) Copper | d) Iron | a |
| | ur toxicity | m toxicity | toxicity | toxicity | |
| | | | | | |
| 142 | | statements marked a | | l Reason (R). Mark | |
| | - | per the codes provid | | | |
| | A) Green Ear of bajra belong to Oomycota phylum | | | | |
| | | res are the sexual sp | | | |
| | , | b) Both A and R | · / | · · | c |
| | R are true and | | is false. | is true. | |
| | R is the | | | | |
| | correct | explanation of A. | | | |
| | explanation | | | | |
| | of A. | | | | |

| 143 | There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below A) Gene pyramiding aims at assembling multiple desirable genes from | | | | | |
|-----|--|--|--|------------------------------|---|--|
| | multiple parent | s into single genoty | pe | - | | |
| | | major genes are in the | • | angle cultivar that | | |
| | | b) Both A and R are true but R is | c) A is true but R | d) A is false but R is true. | a | |
| | of A. | | | | | |
| 144 | Match the pairs A. Reovir B. Illarvi | rus I. Respirato rus II. Fungus viruses | ory enteric orphan vir transmitting rod | shaped | | |
| | C. Furov | virus | ode transmitted po | | | |
| | | <i>irus</i> IV. Isometr b) A-IV, B-I, C- | ic labile ring spot vi | | d | |
| | C-II, D-IV | II, D-III | D-IV | II, D-III | u | |
| 145 | medium with a | volved the transfer on aim to obtain pure | _ | | | |
| | a) Serial dilution plate method | b) Soil washing | c) Pour plate technique | d) Streak plate method | a | |
| 146 | Chemical used | for negative staining | g in ISEM | <u> </u> | | |
| | a) Uranyl acetate | b) Safranin | c) Lactophenol blue | d) Nigrosain | a | |
| 147 | High volume s | prayer can spray hov | v much quantity of l | iquid per unit area? | | |
| | a) > 400 litres/ ha | b) 5-400 litres/ ha | c) 5-50 litres/ ha | d) 1-10 litres/ ha | a | |
| 148 | | ce producing dye is | | 1) 411 6 4 | 1 | |
| | a) Chromophore | b) Flurochrome | c) Luminance | d) All of the above | b | |
| 149 | Ear showing ho | oney dew symptoms | | f which disease? | | |
| | a) Green ear of Bajra | b) Grain smut of Bajra | c) Ergot of Bajra | d) All of the above | С | |
| 150 | Dispersal of pla | l ant pathogens by wir | nd is called | | | |
| | a) Hydrochory | b) Zoochory | c) Anemochory | d) Ornithochory | С | |