



हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

(पूर्व नाम- दुर्ग विश्वविद्यालय, दुर्ग)

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// अधिसूचना //

क्रमांक 1327 / गोपनीय / 2021

दुर्ग, दिनांक 24/11/21

हेमचंद यादव विश्वविद्यालय, दुर्ग द्वारा पी.एच.डी. कोर्सवर्क परीक्षा 2021 का आयोजन किया गया। परीक्षा परिणामों के पुनरावलोकन हेतु विश्वविद्यालय की माननीय कुलपति महोदया द्वारा गठित विशेषज्ञ समिति की अनुशंसा के आधार पर पी-एच.डी. कोर्सवर्क विषय- Botany में निम्नलिखित 01 शोधार्थी का परीक्षा परिणाम संशोधित करते हुए उन्हें अपात्र से पात्र घोषित किया जाता है:-

शोधार्थियों के विवरण इस प्रकार है:-

Sr. No.	Roll No.	Name of Student	Marks	Corrected Result	Remarks
01	2111002	PRACHI GUPTA	56	QUALIFIED	

संलग्न:-उपरोक्तानुसार।

कुलसचिव

हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

पृ.क्र. 1328 / गोपनीय / 2021

दुर्ग, दिनांक 24/11/21

प्रतिलिपि:-

1. संबंधित समस्त शोध केन्द्र, हेमचंद यादव विश्वविद्यालय, दुर्ग को सूचनार्थ।
2. माननीय कुलपति के सचिव/कुलसचिव के निज सहायक, हेमचंद यादव विश्वविद्यालय, दुर्ग को सूचनार्थ।

उपकुलसचिव

हेमचंद यादव विश्वविद्यालय, दुर्ग (छ.ग.)

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

Ph.D. Coursework Examination 2021

माननीय कुलपति महोदया द्वारा गठित विषय विशेषज्ञ समिति के द्वारा पुनरावलोकन उपरांत पी-एच.डी. कोर्सवर्क लिखित परीक्षा 2021 में शोधार्थियों के प्राप्तांक निम्नानुसार हैं:-

Result

Ph.D. in Botany

Sr. No.	ROLL NO	NAME OF STUDENT	Written Exam (Marks)	RESULT	Remarks
1	2111001	DEVENDRA NIRMALKAR	40	NOT QUALIFIED	
2	2111002	PRACHI GUPTA	56	QUALIFIED	
3	2111003	RATNAKAR UPADHYAY	66	QUALIFIED	
4	2111004	SHYAMOO	66	QUALIFIED	



Registrar

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

Ph.D. Coursework Examination - 2021

Answer Key

Subject :- Botany

Q.N.	Ans.	Q.N.	Ans.	Q.N.	Ans.	Q.N.	Ans.	Q.N.	Ans.
1	A	11	D	21	A	31	B	41	A
2	D	12	B	22	C	32	C	42	B
3	D	13	A	23	A	33	B	43	D
4	C	14	B	24	C	34	A	44	A
5	B	15	B	25	D	35	D	45	C
6	C	16	C	26	दिलोपित	36	C	46	A
7	C	17	A	27	C	37	D	47	C
8	D	18	C	28	D	38	A	48	B
9	D	19	D	29	D	39	A	49	B
10	A	20	A	30	A	40	B	50	A

प्रश्न क्र. 26 दिलोपित, बोनस अंक प्रदत्त।



HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

Ph.D. Course Work Examination 2021

BOTANY

PAPER FIRST (PART-I)

**(Research Methodology Tools and Techniques, Quantitative Data Analysis and
Computer Fundamentals, Taxonomic and Ecological data Analysis)**

&

PAPER FIRST (PART-II)

RESEARCH AND PUBLICATION ETHICS (RPE)

Time : Two Hours (For Part-I & Part-II)

Maximum Marks : (Part-I =70 + Part-II=30)=100

Note: - Answer all the questions. Each question carries 02 marks.

(Part-I)

1. To gain familiarity with a Phenomenon is known as :
 - (a) Formulative research studies
 - (b) Descriptive research studies
 - (c) Diagnostics research studies
 - (d) Hypothesis testing research studies
2. Which of the following is a first step in Research?
 - (a) Formulation of Hypothesis
 - (b) Research designing
 - (c) Review the literature
 - (d) Define Research problem
3. Which one of the following is a quality of good Research?
 - (a) Systematic
 - (b) Logical
 - (c) Empirical
 - (d) All of these
4. Which type of study has flexible Research design?
 - (a) Descriptive
 - (b) Diagnostics
 - (c) Formulative
 - (d) All of the these

5. The data which have already been collected and analyzed by someone else is known as -
 - (a) Primary data
 - (b) Secondary data
 - (c) Tertiary data
 - (d) Reliable data
6. Which is a subject specific citation indexing services?
 - (a) Web of Science
 - (b) Scopus
 - (c) Pub Med
 - (d) All of these
7. Which of the following Intellectual property right is a reorganizable sign distinguishes products or services?
 - (a) Patent
 - (b) Copyright
 - (c) Trademarks
 - (d) Trade secrets
8. Figures are ideal for presenting-
 - (a) Data plots
 - (b) Maps
 - (c) Schematics
 - (d) All of these
9. Which of the following explains the specific feature of the table?
 - (a) Caption
 - (b) Source note
 - (c) Body of the table
 - (d) Foot note
10. Which confocal microscope uses Spatial Light Modulator(SLM) -
 - (a) Programmable array Microscope
 - (b) Spinning disk
 - (c) Dual spinning disk
 - (d) Confocal Laser Scanning Microscope
11. Which of the following is not required in Phase Contrast Microscopy?
 - (a) Fixation
 - (b) Special preparation
 - (c) Staining
 - (d) All of these

12. Which Electron Microscope is analog of a Stereo Light Microscope?
- (a) TEM
 - (b) SEM
 - (c) Both TEM and SEM
 - (d) FEM
13. In SDS-PAGE, SDS is a -
- (a) Anionic detergent
 - (b) Cationic detergent
 - (c) Neutral detergent
 - (d) All of these
14. In which type of HPLC the stationary phase is Non polar ?
- (a) Normal Phase HPLC
 - (b) Reverse Phase HPLC
 - (c) Size Exclusion HPLC
 - (d) Ion exchange HPLC
15. At which temperature range Annealing is done in PCR?
- (a) 94 °C
 - (b) 54-60 °C
 - (c) 72-80 °C
 - (d) All of these
16. The DNA sequencing method based on chemical degradation at specific location of the DNA molecule is -
- (a) Sangers method
 - (b) Hybridization method
 - (c) Maxam and Gilberts method
 - (d) Pal Nyren's method
17. The Edman degradation is a very important reaction in sequencing of -
- (a) Protein
 - (b) D.N.A
 - (c) R.N.A
 - (d) All of these
18. According to Lambert-Beer law, the absorbance of a light absorbing material is proportional to-
- (a) The extinction coefficient
 - (b) The sample path length
 - (c) Concentration of the solution
 - (d) Transmitted Light

19. Which of the following method is used for calculating Standard Deviation?
- (a) Direct method
 - (b) Shortcut method
 - (c) Step deviation method
 - (d) All of these
20. Which of the following is not directly affected by sample size?
- (a) SD
 - (b) SEM
 - (c) Mean
 - (d) None of these
21. The greater level of dispersion around the mean is indicated by-
- (a) Higher CV
 - (b) Lower CV
 - (c) Zero CV
 - (d) <1 CV
22. Which of the following value indicate strong relationship between the data?
- (a) $r = 0$
 - (b) $r = -0.4$
 - (c) $r = 0.4$
 - (d) Both $r = 0$ and $r = -0.4$
23. $Y = a + bx$ formula is of -
- (a) Linear regression
 - (b) Multiple regression
 - (c) Correlation coefficient
 - (d) Coefficient of variation
24. Dependent sample 't' test is known as -
- (a) Independent sample 't' test
 - (b) Unpaired sample 't' test
 - (c) Paired sample 't' test
 - (d) Identically distributed 't' test
25. Which of the following graphical presentation exhibits frequency distribution?
- (a) Bar graph
 - (b) Pie chart
 - (c) Polygon
 - (d) All of these

26. CoStat Software is largely used in -
(a) Social sciences
(b) Priological Sciences
(c) Both (a) and (b)
(d) Material Sciences
27. Which of the following program is used for creating Slide shows?
(a) MS Word
(b) MS Excel
(c) MS Power Point
(d) MS Outlook
28. Which of the following cytological data is used in elucidation of Taxonomic problems?
(a) Chromosome number
(b) Chromosome morphology
(c) Chromosome size
(d) All of these
29. Benzylisoquinoline alkaloid is found in which of the following family?
(a) Papaveraceae
(b) Berberidaceae
(c) Ranunculaceae
(d) All of these
30. When measurements are taken at locations or times according to a predetermined pattern is known as -
(a) Systematic sampling
(b) Random Sampling
(c) Judgmental Sampling
(d) Stratified Sampling
31. Which of the following sample reduces the analysis cost?
(a) Grab sample
(b) Composite sample
(c) Random Sample
(d) All of these
32. Which of the following method is used to isolate Streptococcus lactis at the time of curding?
(a) Streaking method
(b) Plating method
(c) Dilution method
(d) Enrichment method

33. Which of the following method of preservation is known as Byophilization ?
- (a) Preservation by drying in Vacuum
 - (b) Preservation by freeze drying
 - (c) Preservation at low temperature
 - (d) Preservation in Saline suspension
34. Which of the following method of staining is used to differentiate Mycobacteria?
- (a) Acid fast staining
 - (b) Gram staining
 - (c) Negrosine staining
 - (d) Basic fuchsin
35. Albizia is an example of which of the following type of compound leaf?
- (a) Palmetly Compound
 - (b) Odd pinnate Compound
 - (c) Even pinnate Compound
 - (d) Bipinnate Compound

(Part-II)

36. What is an ethics committee?
- (a) People who like to talk a lot
 - (b) A group of people who think about hypothetical research
 - (c) A group of experienced people who will consider a research proposal and the degree to which ethical issues have been considered appropriately
 - (d) A group of experienced people who are useful to draw on when writing a proposal as an optional extra
37. Essential in ethics and ethical standards is:
- (a) A good grasp of research methods.
 - (b) The capacity to produce good research.
 - (c) A good understanding of business.
 - (d) The capacity to distinguish between right and wrong.
38. A gatekeeper is:
- (a) Any person or structure that controls access to people, places, structures and/or organizations.
 - (b) A person in charge of a gate.
 - (c) A security officer or guard.
 - (d) A person who controls entrances and exits.
39. The two important components of research responsibility are: sincerity in work and avoiding-
- (a) Plagiarism
 - (b) writing the thesis
 - (c) Research techniques
 - (d) Confidentiality

40. In carrying out the research, the researcher should engage properly and thoroughly with:
- (a) The media.
 - (b) The literature on the topic.
 - (c) Their peers.
 - (d) Art and science.
41. Ideally, the research participant's identity is not known to the researcher. This is called:
- (a) Anonymity
 - (b) Confidentiality
 - (c) Deception
 - (d) Desensitizing
42. The use of deception in social research is-
- (a) illegal.
 - (b) permissible under certain conditions.
 - (c) methodologically unsound.
 - (d) rare because of federal ethical constraints on its use.
43. Which of the following is a form of harm that might be suffered by research participants?
- (a) Physical injury
 - (b) Stress and anxiety
 - (c) Impaired development
 - (d) All of the above
44. What do we advise as a good rule of thumb about sample size for group based quantitative projects?
- (a) Aim to recruit 20 participants per condition of your design
 - (b) Aim to recruit 20 participants per member of the group
 - (c) Aim to recruit 100 participants per condition of your design
 - (d) Aim to recruit 100 participants per member of the group
45. Classification of all types of libraries has been made by-
- (a) IFLA
 - (b) UNISIST
 - (c) UNESCO
 - (d) INSDOC
46. Which of the following is/are the potential benefits of using tools for testing?
- i). Reducing the repetitive work.
 - ii). Increasing consistency and repeatability.
 - iii). Over-reliance on the tool.
- (a) i and ii only
 - (b) ii and iii only
 - (c) i and iii only
 - (d) All i, ii and iii

47. Urkund is a :-
(a) writing tool
(b) grammar correction tool
(c) plagiarism checker
(d) none
48. A hash function must meet criteria.
(a) Two
(b) Three
(c) Four
(d) None of the mentioned
49. How many types of indexes are there in sql server?
(a) 1
(b) 2
(c) 3
(d) 4
50. h- index ----- Measures quantity with quality by comparing publications to citations.
(a) True
(b) False
(c) Both
(d) None
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