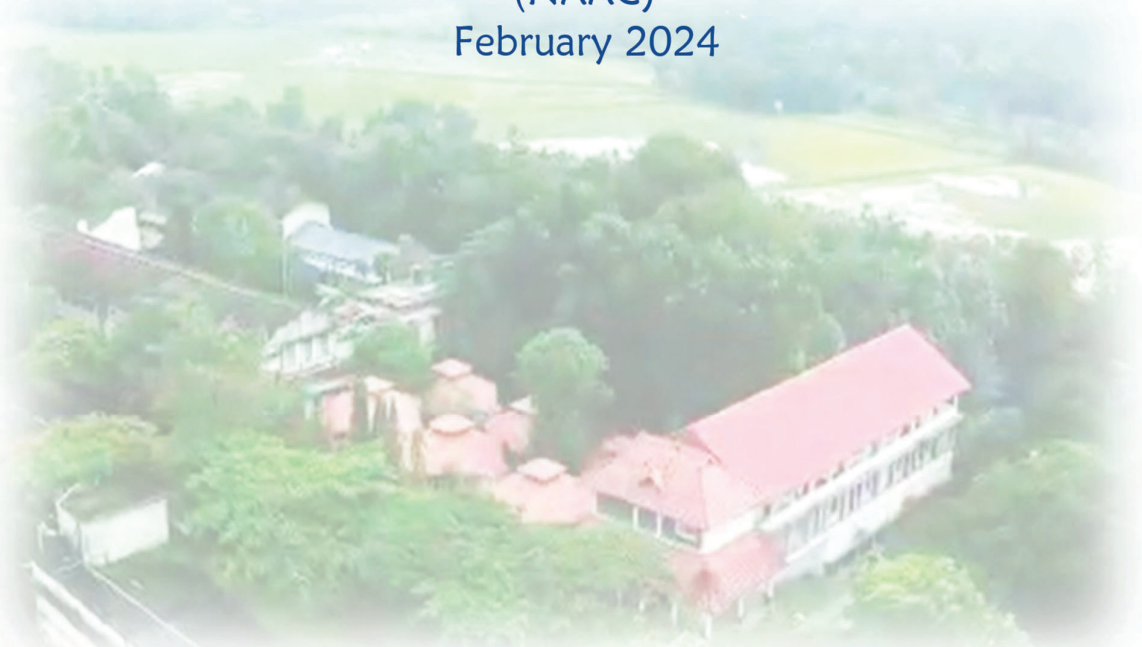




DEVASWOM BOARD COLLEGE
THALAYOLAPARAMBU
(Affiliated to Mahatma Gandhi University, Kottayam)

CRITERION I
Curricular Aspects

Submitted to
The National Assessment and Accreditation Council
(NAAC)
February 2024



Midayikunnu P.O.Thalayolaparambu, Kottayam, Kerala - 686605

Department of Botany, D B College, Thalayolaparambu
Entry Level Q.P – August ...2022

Answer any 20 questions

1. Who proposed five kingdom classification
a) Whittaker b) Linnaeus c) Theophrastus ✓
2. Single celled eukaryotes are included in
a) Archaea b) Protista c) Algae ✓
3. Algae which is used by space travelers as food is
a) Nostoc b) Chlorella c) Sargassum ✓
4. Amphibians of plant kingdom
a) Algae b) Bryophytes c) Pteridophytes ✓
5. Which one of the following is the first group of vascular plants
a) Thallophytes b) bryophytes c) pteridophytes ✓
6. Velamen root absorb moisture from
a) Air b) root c) leaves ✓
7. Formation of fruit without fertilization
a) Apogamy b) Parthenocarpy c) Apospory ✓
8. The only living plant cell without nucleus is
a) Sieve tube b) xylem cells c) collenchyma ✓
9. Condensation of chromosome is completed in
a) Prophase b) Metaphase c) Telophase ✓
10. Guttation occurs through
a) roots b) hydathode c) stomata ✓
11. Soil-less cultivation of plant in a defined nutrient solution is called
a) Aeroponics b) hydroponics c) bonsai ✓
12. Total number of CO₂ required for the synthesis of one glucose molecule
a) 1 b) 3 c) 6 ✓
13. Apical dominance is due to the presence of
a) Cytokinin b) auxin c) ABA ✗
14. Who is known as the father of botany
a) Theophrastus b) Linnaeus c) Aristotle ✓
15. Name an edible fungi
a) Rhizopus b) Mucor c) Agaricus ✓
16. Which are the 2 components of ecosystem
a) Plants & animals b) seeds & trees c) biotic & abiotic ✓
17. Mitosis is a division
a) Equational b) reductional c) similar ✓
18. Anticodon occurs in
a) tRNA b) mRNA c) rRNA ✗
19. Which plant grow as an epiphyte on a mango branch ?
a) Vanda b) Cuscuta c) Opuntia ✓
20. The community that invade a bare area are called
a) Climax community b) Pioneer community c) Seral community ✓
21. Which one is a hot spot of biodiversity
a) Western Ghats b) Eastern Ghats c) Indogangetic plain ✗
22. Population growth is indicated by
a) Emigration b) mortality c) natality d) all the above ✓

18
20

Melha S Nair

Roll no: 303

14/20

D B College, Thalayolaparambu

Department of Botany

Entry-level question paper - October 2021

1. The cell organelle is known as the suicidal bag
2. What are mesosomes?
3. Give the name of an algae *Oedogonium* ✓
4. Mushrooms belong to the group----- *Fungi* ✓
5. Which plant group is considered as the amphibians of the plant kingdom *Bryophyte* ✓
6. Living fossil *Ginkgo* ✓
7. The building blocks of proteins *Aminoacids* ✓
8. Organisms that derive nutrition from dead organic matter are known as..... *decomposers* ✓
9. Give an example of a gymnosperm *Pinus* ✓
10. Darkly stained spherical structure present inside the nucleus
11. Plants that can tolerate water deficit and live in dry habitats are included under the group--- *Xerophytes* ✓
12. Who discovered DNA
13. The enzymes which are used to cut DNA *Restriction endonuclease* ✓
14. First cloned animal ^{dolly} *Sheep* ✓
15. The branch of Botany which deals with symptoms, causative agents, and control measures of diseases is known as -----
16. Give an example of a thin-walled living cell *Parenchyma* ✓
17. The tissue that is involved in water conduction *xylem* ✓
18. The type of movement seen in 'Touch me not plant'
19. Example for a gram negative bacteria *e. coli* ✓
20. Universal solvent *water* ✓

DEPT. OF BOTANY, D.B. COLLEGE, THALAYOLAPARAMBU

ENTRY LEVEL TEST

.....SEPTEMBER 2020.....

1. Natural aging of a lake by nutrient enrichment in its water is known as
a) Biomagnification b) Algal bloom c) Salination d) eutrophication ✓
2. The living tissue present in xylem
a) vessel b) tracheids c) xylem fibres d) xylem parenchyma ✓
3. Free living aerobic nitrogen fixing microbes are
a) Rhizobium b) Azotobacter c) Nostoc d) Anabaena ✓
4. Flowering response in plants towards duration of day/ night is called
a) Phototropism b) photonasty c) photoperiodism d) vernalisation ✓
5. Which organelle is known as power house of the cell
a) ribosome b) mitochondria c) nucleus d) golgi bodies ✓
6. Which of the following is known as nature's scavengers?
a) Man b) Animals c) Insects d) Micro organisms ✓
7. Plants which grow in saline marshy area are known as
a) Hydrophytes b) Sciophytes c) Halophytes d) Heliophytes ✓
8. Coconut milk contains
a) auxin b) gibberrellins c) zeatin d) ethylene ✓
9. Who is known as Father of Taxonomy
 a) Linnaeus b) Robert Hook c) Lamarck d) Mendel ✓
10. This serves as a connecting link between the angiosperms and gymnosperms
 (a) Gnetales (b) Coniferales (c) Ginkgoales (d) Cycadales ✓
11. The polar nuclei and male gamete fuse to form
(a) secondary nucleus (b) zygote (c) triple fusion (d) PEN ✓
12. The cell wall of most of the fungi contains _____
(a) Hemicellulose (b) Chitin (c) Peptidoglycan (d) Cellulose ✓
13. This is found in extreme saline conditions
(a) eubacteria (b) cyanobacteria (c) archaeobacteria (d) mycobacteria ✓
14. Which of the following is made of dead cells?
(a) Phloem (b) Phellem (c) Collenchyma (d) Xylem parenchyma ✓
15. This has the largest number of chromosomes
(a) Pisum sativum (b) Giant redwood tree (c) Haplopappus gracilis (d) Ophioglossum ✓
16. This system of classification was used by Linnaeus
(a) Phylogenetic system (b) Natural system (c) Artificial system (d) Asexual system ✓
17. Aerial absorptive roots occur in
(a) Mesophytes (b) Epiphytes (c) Xerophytes (d) Hydrophytes ✓
18. Absorptive heterotrophic nutrition is exhibited by
 (a) fungi (b) algae (c) pteridophytes (d) bryophytes ✓
19. Arrangement of sepals and petals in bud condition is called
 (a) aestivation b) placentation d) phylltaxy d) vernalisation ✓
20. Rhodophyceae is called red algae due to the pigment
a) fucoxanthin b) phycoerythrin c) chlorophyll c d) carotenoids ✓

18
20

Answer any 20 questions

13

1. A symbiotic nitrogen fixing bacteria
a) Rhizobium ✓ b) Azotobacter c) Clostridium ✓
2. Which of the following is considered as neither prokaryotes or eukaryotes.
a) Bacteriophages ✓ b) bacteria c) fungi ✗
3. An economically important bryophyte is
a) Riccia b) Funaria c) Sphagnum
4. Amphibians of plant kingdom
a) Algae ✓ b) Bryophytes c) Pteridophytes ✓
5. Double fertilization is unique feature of
a) Bryophytes b) Gymnosperms c) Angiosperms ✓
6. Flowers are zygomorphic in
a) Hibiscus ✓ b) Pea c) Tomato ✓
7. Secondary growth does not occur in
a) Grasses ✓ b) gymnosperms c) dicotyledons ✓
8. chromosomes are mainly composed of
a) proteins b) DNA c) DNA & Proteins ✓
9. Four daughter cells formed after meiosis are
a) Genetically similar b) genetically different c) multinucleate
10. Guard cells are dumb-bell shaped in
a) Monocot leaf ✓ b) dicot leaf c) dorsiventral leaf ✓
11. Maximum oxygen evolution occurs from
a) Forests ✓ b) marine phytoplankton c) crops ✗
12. The organelle involved in respiration
a) Mitochondria ✓ b) chloroplast c) lysosome ✓
13. The basic unit of plant classification
a) Genus b) order c) species ✓
14. Classification of Bentham and Hookey is
a) Natural ✓ b) Artificial c) phylogenetic ✓
15. Study of internal structure of plant is called
a) Morphology b) anatomy c) taxonomy
16. Cell discovered by
a) Robert Hooke ✓ b) Robert Brown c) Rudolf Virchow ✓
17. Information transfer from DNA to RNA is
a) Translation b) Transcription ✓ c) Replication ✓
18. Which was absent in the atmosphere at the time of origin of life
a) NH₃ b) O₂ c) CH₄
19. The relationship between algae & fungi in a lichen is
a) Symbiosis ✓ b) Parasitism c) Commensalism ✓
20. Final stable community in a plant succession is known as
a) Climax community b) Pioneer community c) Seral community
21. The natural ageing of lake is
a) Biomagnification b) Eutrophication c) Biolumification
22. Germplasm conservation at liquid nitrogen temperature of -196°C
a) Stratification ✓ b) Scarification c) Cryopreservation ✗

Devaswom Board College, Thalayolaparambu – [2018-2019]

ENTRY LEVEL TEST

- The complex number $1+2i/1-i$ lies in
(1) First quadrant (2) Second quadrant (3) Third quadrant (4) Fourth quadrant
- The additive inverse of $5 + 7i$ is
(1) $5 - 7i$ (2) $-5 + 7i$ (3) $5 + 7i$ (4) $-5 - 7i$
- When n is any positive integer, the expansion $(x + a)^n = nC_0 x^n + nC_1 x^{n-1} a + \dots + nC_n a^n$ is valid only when
(1) $|x| < 1$ (2) $|x| > 1$ (3) $|x| < 1$ and $|a| < 1$ (4) x and a are any real number
- Let $P(n)$ be a statement and let $P(n) \Rightarrow P(n+1)$ for all natural numbers n , then $P(n)$ is true
(1) for all $n \in \mathbb{N}$. (2) for all $n > m$, m being a fixed positive integer (3) for all $n > 1$ (4) nothing can be said
- In how many ways the letters of the word RAINBOW be arranged?
(1) 5040 (2) 4050 (3) 6050 (4) 6050
- If general term of an A.P. is $2n + 5$, then its common difference is
(1) 2 (2) 3 (3) 5 (4) 7
- If a, b, c, d, e, f are in A.P., then $e - c$ is equal to
(1) $d - b$ (2) $2(d - b)$ (3) $2(c - a)$ (4) $c - b$
- If $\tan \theta = 3$ and θ lies in the III quadrant, then the value of $\sin \theta$
(1) $\frac{1}{\sqrt{10}}$ (2) $-\frac{1}{\sqrt{10}}$ (3) $-\frac{3}{\sqrt{10}}$ (4) $\frac{3}{\sqrt{10}}$
- If a set has n elements then the total number of subsets of A is
1) n 2) n^2 3) 2^n 4) $2n$
- How many of the integers from 1 to 100 inclusive are not perfect squares of an integer?
1) 91 2) 90 3) 92 4) None of these



11. Let A be a 5×8 matrix, then each column of A contains

- (1) 5 elements (2) 8 elements (3) 40 elements (4) 13 elements

12

If A is 3×3 matrix and $|A| = 4$, then $|A^{-1}|$ is equal to

- (1) $\frac{1}{4}$ (2) $\frac{1}{16}$ (3) 4 (4) 2

13. $\begin{vmatrix} x & 4 & y+z \\ y & 4 & z+x \\ z & 4 & x+y \end{vmatrix}$ is equal to

- (1) 4 (2) $x + y + z$ (3) xyz (4) 0

14. The value of the determinant $\begin{vmatrix} 1 & a & a^2 - bc \\ 1 & b & b^2 - ca \\ 1 & c & c^2 - ab \end{vmatrix}$ is

- (1) 0 (2) 1 (3) 2 (4) 3

15. The coordinates of the centroid of triangle formed by the vertices (1, 1), (2, 6), (6, -1) is

- (1) (3, 1) (2) (3, 2) (3) (2, 4) (4) (4, 6)

16. If the sides of triangle ABC are such that $a = 4$, $b = 5$, $c = 6$, then the ratio in which incentre divide the angle bisector of B is

- (1) 2 : 3 (2) 2 : 1 (3) 3 : 2 (4) 1 : 1

17. The angle between the hour hand and the minute hand of a clock at half past three, is

- (1) 90 deg (2) 60 deg (3) 30 deg (4) 175 deg

18. The radius of the circle passing through the points (1, 2), (5, 2) and (5, -2) is

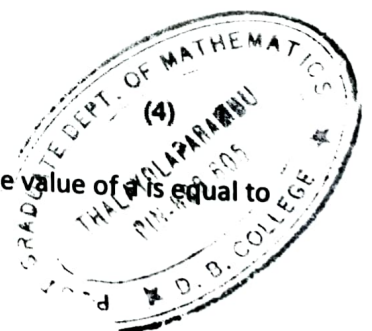
- (1) $2\sqrt{2}$ (2) $3\sqrt{2}$ (3) $2\sqrt{5}$ (4) $5\sqrt{2}$

19. The length of the latus rectum of the parabola $x^2 - 6x + 5y = 0$ is

- (1) 3 (2) 5 (3) 7 (4) 9

20. If the imaginary part of $2 + i/ai - 1$ is zero, where a is a real number, then the value of a is equal to

- 1) $\frac{1}{2}$ 2) 2 3) $-\frac{1}{2}$ 4) -2



21. The mean deviation of the numbers 11, 12, 13, 14, 15 about the mean is

- (1) 1 (2) 1.2 (3) 1.5 (4) 2

22. Mean deviation for n observations x_1, x_2, \dots, x_n from their mean \bar{x} is given by

- (1) $\sum_{i=1}^n (x_i - \bar{x})$ (2) $\frac{1}{n} \sum_{i=1}^n |x_i - \bar{x}|$ (3) $\sum_{i=1}^n (x_i - \bar{x})^2$ (4) $\frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2$

23. Equation of XZ-plane is

- (1) $x = 0$ (2) $x = 0, y = 0$ (3) $y = 0$ (4) $y = 0, z = 0$

24. The locus of the point for which $x = 0, y = 0$ is

- (1) Equation of x-axis (2) Equation of y-axis (3) Equation of z-axis (4) Equation of XY-plane

25.

$\int (\tan x + \cot x)^2 dx$ equals

- (1) $\tan x + \cot x + C$ (2) $\sec x + \operatorname{cosec} x + C$ (3) $\tan x - \cot x + C$ (4) $\sec x - \operatorname{cosec} x + C$

26. If the function $f(x) = (1-x) \tan \frac{\pi x}{2}$ is continuous at $x = 1$, then $f(1) =$

- (1) $2/\pi$ (2) $\pi/2$ (3) 0 (4) 2

27. Let $A = \{x: x \text{ is a prime number less than } 10\}$ and $B = \{x: x \in \mathbb{N} \text{ and } 0 < x - 2 \leq 4\}$ then $A - B$ is

- (1) $\{2, 3, 5\}$ (2) $\{3, 4\}$ (3) $\{3, 4, 5\}$ (4) $\{2, 7\}$

28. If $P = \{x: x \text{ is a prime number less than } 20\}$ and $M = \{x: x \text{ is multiple of } 6, 0 < x < 30\}$ then

$n(P \cap M)$ is

- (1) 2 (2) 4 (3) 5 (4) 8

29. The area bounded by $y = -x^2 + 1$ and the x-axis is

- 1) $1/3$ 2) $2/3$ 3) $4/3$ 4) $8/3$

30. Negation of statement "Newyork is in America and Mumbai is in India" is

- (1) Newyork is in India and Mumbai is in America
(2) Newyork is not in America and Mumbai is in India





DEVASWOM BOARD COLLEGE

Thalayolaparambu

Affiliated to
Mahatma Gandhi University Kottayam
NAAC Re-Accredited B+ grade

ENTRY LEVEL TEST QUESTION PAPER FOR B.A POLITICAL SCIENCE 2018-19

Name of Student: Amarjith P.P
Class No. : 610

12
30

Total Marks

Time: 1 hour

Max. Marks: 30

Answer All Questions

Each Questions carries 1 Marks

1. Which theory of democracy attaches great importance to economic rights of man?
A. Marxist theory
B. Elite Theory
C. Pluralist Theory
D. All the above
2. The concept of Greek, 'Justice' was
A. Legal
B. Moral
C. Social
D. Political
3. The social sciences where initially concerned with the consequences of
A. American Revolution
B. The French Revolution
C. The Russian Revolution
D. The Industrial Revolution
4. Eight principles of Behavioral Approach of political science is generally known as:
A. Regularities
B. Pure Science
C. Verifications
D. Intellectual Foundations
5. 'A theory of justice' is the work of
A. J.S Mill
B. Bodin
C. John Rawls
D. Montesquieu
6. Who wrote the book 'A Grammar of politics'
A. Laski
B. Hegel
C. J.S Mill
D. T.H Green
7. Which one of the following is not relevant to Traditional Approach.
A. Philosophical
B. Historical
C. Institutional
D. Behavioural

8. Integration of Political Science with other Social Sciences is a basic principle of
- A. Traditionalism.
 B. Behaviouralism.
 C. Liberalism.
 D. Post - Behaviouralism.
9. The success of democracy depends upon
- A. Periodic Elections.
 B. Voting.
 C. Campaigning in The Elections.
 D. All the above
10. Which of the following is a permanent feature of a representative form of government?
- A. Voting.
 B. Decision Making.
 C. Military Force.
 D. None of The Above.
11. "A right is a claim recognized by society and enforced by the state" who said this?
- A. Laski
 B. Bosanquet
 C. Rousseau
 D. Green
- 12 Traditional approaches give stress on:
- A. Values.
 B. Facts.
 C. Objectivity.
 D. Precision.
13. 'Two Treatises of Government' Was Written By
- A. John Locke.
 B. J.J Rousseau.
 C. Thomas Hobbes.
 D. Spencer.
14. The social science that deals with human use of the natural environment is:
- A. Genetics
 B. Geography
 C. Political science
 D. Sociology
15. 'Credo of Relevance' Signalled
- A. Modernism.
 B. Behaviouralism.
 C. Post-Behaviouralism.
 D. Rationalism.
16. Who among the following strongly said that "Man is a Political Animal"?
- A. Socrates
 B. Plato
 C. Aristotle
 D. None of the Above.
17. Who among the following said, "Liberty is the opposite of over government"?
- A. Seeley
 B. Prof. Ramsay Muir
 C. Laski
 D. J.S Mill
18. The origin of democracy can be traced back to
- A. Ancient Greek City States
 B. Medieval Period
 C. Modern Era
 D. Feudalism
19. A democratic society is one in which
- A. Government is popularly elected.
 B. Liberty is given the highest value.
 C. The spirit of equality and fraternity prevails.
 D. All the above.

20. Who wrote the book 'Politics' +

- A. Socrates B. Plato
C. Aristotle D. Rousseau

21. Behavioral approach in political science is "an attempt to make the empirical content of political science more scientific" who said this? x

- A. Charles. E. Merriam B. David Easton
C. Powell D. Robert A Dahl

22. Who described democracy as "a form of government in which everyone has a share"?

- A. John Seeley B. J.S Mill
C. Bryce D. None of The Above

23. Who wrote the book 'On liberty'?

- A. Henry Maine B. J.S Mill
C. T.H Green D. Laski

24. The study of human group behaviour is the definition of x

- A. Psychology B. Sociology
C. Geology D. None of the above

25. The term 'Globalization' was coined by

- A. Kaplan B. Theodore Levitt
C. Burton D. Spiro

26. Democracy is rule of

- A. Voters B. People
C. Members of parliament D. Political Parties.

27. Who defined democracy as "Government of the people, by the people, for the people"?

- A. Woodrow Wilson B. Lord Bryce
C. Abraham Lincoln D. Laski x

28. 'The Intellectual God Father' of Behaviouralism is x

- A. Charles. E. Merriam B. David Easton.
C. Laswell. D. None of the above.

29. The two words 'demos' and 'kratos' from which democracy draws its origin belong to

- A. Latin Language. B. Greek Language. x
C. French Language. D. Spanish Language.

30. The two forms of democracy are

- A. Parliamentary and presidential. B. Direct and indirect.
C. Monarchical and Republican. D. None of the above. x