

SNJB (Jain Gurukul's)
K.K.H. Abad Arts, S.M.G. Lodha Commerce & Science College
Neminagar, Chandwad-423101, Dist.-Nashik, Maharashtra.



Establishment
27/11/1928

(Affiliated to Savitribai Phule Pune University) Id. No.PU/NS/AC/015/1970

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• Website : www.acschandwadcollege.com

2.3.1 - Student centric methods, such as experiential learning, participative learning and Problem solving methodologies are used for enhancing learning experiences

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Date : 30/08/2020

To,

The Principal / IQAC
KKHA Arts, SMGL Comm. & SPHJ Science College
Chandwad. Dist.- Nashik

Sub.: Permission for "National level e-Quiz" on occasion of National Teacher Day.


Dear Sir,

As per subject cited above, Department of Physics seeks permission for the conducting of "National Level e-Quiz" from 1 September to 5 September 2020. On the occasion of "Dr. Radhakrishnan Birth Anniversary (i.e. National Teacher Day)", for Academicians, Faculty Member, Research Scholars & Students.

I hereby request you to give the permission for the same.


COORDINATOR
Internal Quality Assessment Cell
SNJB's K.K.H.A.Arts, S.M.G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik

Your Faithfully,


(Smt. Dr. S. D. Shinde)

HEAD
Department of Physics
KKHA Arts, SMGL Commerce &
SPHJ Science College, Chandwad
Dist- Nashik 423 101 Maharashtra


PRINCIPAL
K.K.H.A. Arts SMGL Comm.
& S.P.H.J. Science College,
Chandwad, Dist. Nashik - 423 101

Date : 19/09/2020

Report

The national e-Quiz was organized by the Department of Physics on 5th September 2020, on the occasion of "National Teacher's Day". The theme of National e-Quiz was Dr. Sarvepalli Radhakrishnan. Total 311 Academicians, Faculty Members, Research Scholars & students participated. Out of which 25 participants are from **Andhra Pradesh, Madhya Pradesh, Gujarat, Kerala, Tamil Nadu, Rajasthan, Karnataka, Haryana, Odisha, Uttarakhand, Chhattisgarh, Jammu and Kashmir, Uttar Pradesh** i.e. from all over India.

The Department of Physics would like to thank you for your kind co-operation for conducting of e-Quiz competition.



(Dr. G. H. Jain)

PRINCIPAL

K.K.H.A. Arts SMGL Comm.
& S.P.H.J. Science College,
Chandwad, Dist. Nashik - 423 101



(IQAC)

COORDINATOR

Internal Quality Assessment Cell
SNJB's K.K.H.A.Arts, S.M.G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik



(Smt. Dr. S. D. Shinde)

HEAD

Department of Physics
KKHA Arts, SMGL Commerce &
SPHJ Science College, Chandwad
Dist- Nashik 423 101 Maharashtra

e-Quiz on "Dr. Sarvepalli Radhakrishnan"

We are glad to inform you that the "Department of Physics, SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad Dist. Nashik (MH) is organized a National level e-Quiz on "Dr. Radhakrishnan Birth Anniversary" from 1 September to 5 September 2020. Academicians, Faculty Member, Research Scholars & Students are invited to participate in the Quiz.

E-Certificate will be issued to the participant who score 30% and above .

* Required

Email address *

Your email

Name (Full name as you required on the certificate) *

Your answer

College Name *

Your answer

Gender *

- Male
- Female
- Other

Contact Number *

Your answer

Name of the city *

Your answer

State *

Your answer

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- Gender *
- Male
 - Female
 - Other



e-Quiz on "Dr. Sarvepalli Radhakrishnan "

* Required

Part 1

All questions are compulsory

From Which year, "5th September " is being celebrated as Teacher's Day? * 2 points

- 1965
- 1966
- 1962
- 1968

When did Dr. Sarvepalli Radhakrinan was born? *

2 points

- 5 September 1888
- 5 September 1889
- 5 september 1887
- 5 September 1886



When was Dr. Radhakrishnan elected Vice-President of the Republic of India? * 2 points

- 1957
- 1956
- 1952
- 1953

How many times did Dr. Radhakrishnan nominate for the Nobel Prize in Literature? * 2 points

- 13
- 14
- 17
- 16

Dr. Radhakrishnan was the Ambassador of India to which country from 1949 to 1952? * 2 points

- United State of America
- The Union of Soviet Socialist Republic
- United Kingdom
- Germany

Which of these is an internationally renowned magazine in which Dr. Radhakrishnan's articles were published? * 2 points

- Journal of Philosophy
- The Quest
- International Journal of Ethic
- All the above are correct

Dr. Radhakrishnan was a great defence of against "uniformed Western criticism" * 2 points

- Monotheism
- Nationalism
- Hinduism
- Vedic Ideology

How old was Dr. Radhakrishnan when he was offered a professorship at the University of Calcitta? * 2 points

- 32
- 31
- 30
- 34

In Which Subject Dr. Radhakrishnan had done his Post Graduation? * 2 points

- Sociology
- Philosophy
- History
- English

On which great personality did Dr. Radhakrishnan write his first book? * 2 points

- Kalidas
- Mahatma Gandhi
- Gurudev Rabindranath Tagore
- Bharthari

How old was Dr. Radhakrishnan when his thesis "The Ethic of the Vedanta & its Metaphysical Presupposition" was published? * 2 points

- 22
- 21
- 20
- 24

In 1939, Dr. Radhakrishnan was appointed the Chancellor of which University? *

2 points

- Calcutta University
- Banaras Hindu University
- Mumbai University
- JNU, Delhi

In which international university did Dr. Radhakrishnan become the first Indian to sit on the Professor's chair? *

2 points

- Cambridge University
- Oxford University
- Harvard University
- University of Chicago

Dr. Radhakrishnan philosophy was based in Advaita Vedanta, which means? *

2 points

- Brahma is the highest Reality
- Atman is the first principle in Advaita Vedanta
- Oneness of God
- All the above are correct



What is the total number of work(Book) written by Dr. Radhakrishnan ? 2 points

- 27
- 37
- 17
- 47

Where did Dr. Radhakrishnan donate 75% of his salary every month as the President of India? * 2 points

- University Grants Commission
- Prime Minister National Relief Fund
- Orphanages
- Disaster Relief Fund

What is the ultimate goal of education? 2 points

- Getting a degree
- Getting a job
- To gain social prestige
- Positive change in behaviour

Dr. Radhakrishnan donated the entire amount of the Templeton Prize to which University? * 2 points

- Banaras Hindu University
- Oxford University
- Cambridge University
- Patna University

When is the world Teachers Day Celebrated? * 2 points

- 5th April
- 5th August
- 5th October
- 5th December

Which of these great reformers seems to be more influenced by the ideas of Dr. Radhakrishnan? * 2 points


- Ramakrishna Paramhansa
- Prabhat Ranjan Sarkar
- Swami Vivekanand
- Ishwar Chandra Vidysagar

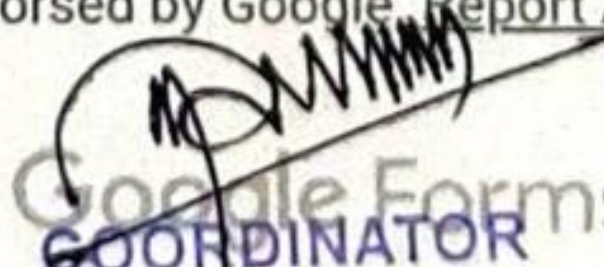
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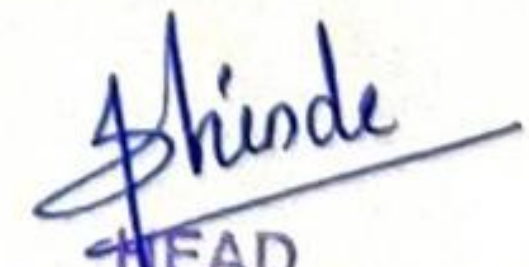
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SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad(MH)
Best College Award (2015-16), DST-FIST Funded (2018)
 Re-accredited by NAAC, with 'B++' Grade CGPA 2.95 (3rd Cycle)

SNJB

CERTIFICATE OF PARTICIPATION

This is to certify that **Mr./Ms./Dr./Prof. Amrale Pooja Shailendra** has actively participated in Online **Dr. Sarvepalli Radhakrishnan Quiz (2020)** held on 1st September to 5th September on the occasion of **National Teachers Day**. Organized by **Department of Physics, SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, Dist. Nashik (Maharashtra)**. This certificate is issued to him/her successful participation. We wish every success for your future endeavour.

Your Score: 100%

Certificate ID: JGM2BW-CE000273

Date: 5-9-2020

Shinde

Dr. Smt. S. D. Shinde
Head

PRINCIPAL
K.K.H.A. Arts SMGL Comm.
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Shinde

Dr. G. H. Jain
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National e-Quiz Participations list

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Affiliated to Savitribai Phule Pune University, Pune Id. No. PU/NS/AC/015/1970

Department of Mathematics

27/11/1928

Year of Establishment: 2010
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Date: 10/10/2020

Report of Student Centric Activity No. 2

Covid-19 has affected each and every sectors human are involved in and one of the most badly affected field is education. We were not exception, in early 2020 when India faced it's first wave of Covid-19 and the lock down was announced, all the educational institutes have been shut down for an unknown period of time. This lead to the transition from an offline teaching to online teaching methodology. Obviously it as challenging for all the stake holders specially those who hail from rural background like us but we all were helpless, and were forced to deal with it that way only. After considerable amount of time and thoughts put together, Savitribai Phule Pune University has declared online examination for all the students.

Students and teachers were not aware of the online examination system and the restlessness was clearly visible specially for students. The had numerous questions regarding online examination which was supposed to be held in an MCQ pattern and we tried our best to fade their restlessness away.

Department of Mathematics came up with an idea to hold an Online Mock Test for major subjects of fourth semester viz. Complex Analysis, Real Analysis II, Ring Theory and Partial Differential Equations on 3/10/2020, 4/10/2020 and 5/10/2020 and 7/10/2020 respectively. Initially we thought it for our College students but then we realized that the students of all affiliated colleges are going through the same challenge, so we kept it open for all the final year students of Savitribai Phule Pune University.

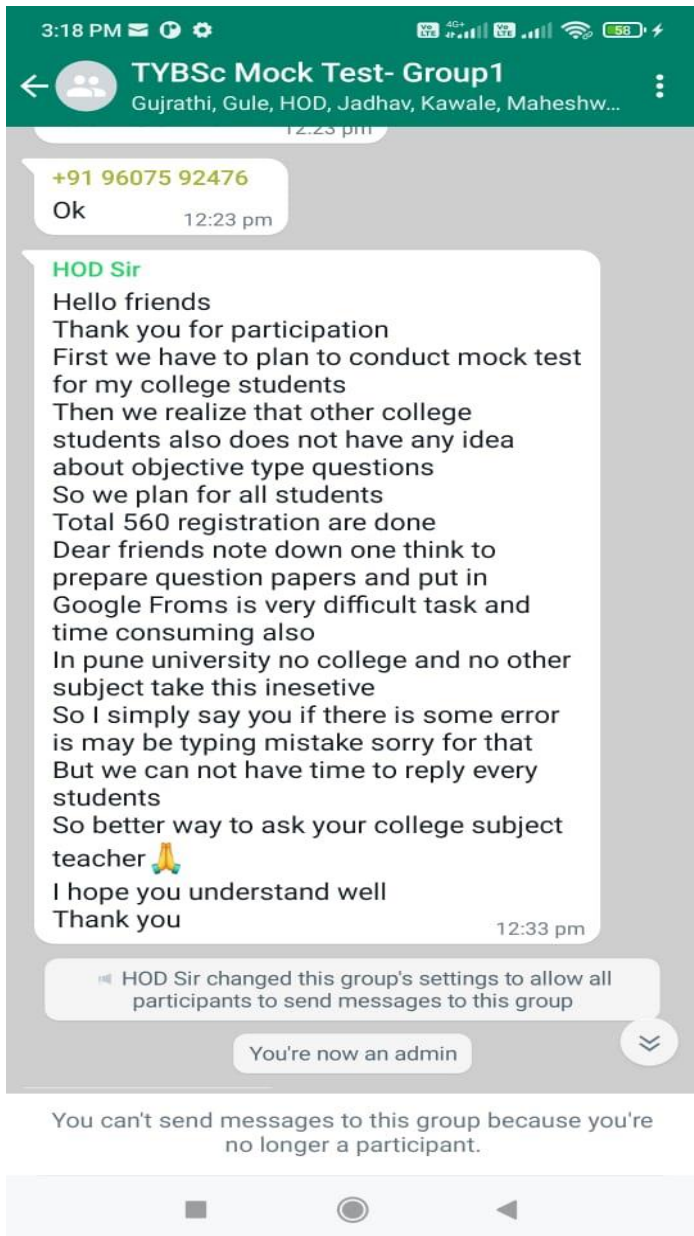
We took help of Google Forms and first we prepared a registration form and to our surprise received an overwhelming response as 591 students had registered for the Mock Test. To guide them about the same we prepared two WhatsApp groups. We have set 60 MCQ's on each subjects and students were asked to attempt any 50 questions (same as the earlier guideline received by SPPU). We typed questions in LaTeX then converted each question and their alternatives

into images and prepared Google Forms. According to time table the test was conducted. After the test we removed the restriction of “limit to one response” from the settings of Google form so that students can reattempt the same test and rectify their mistakes, as it was only to help them prepare for their final exams. The activity has served the purpose greatly as we aimed to help students for better preparation of their exams.

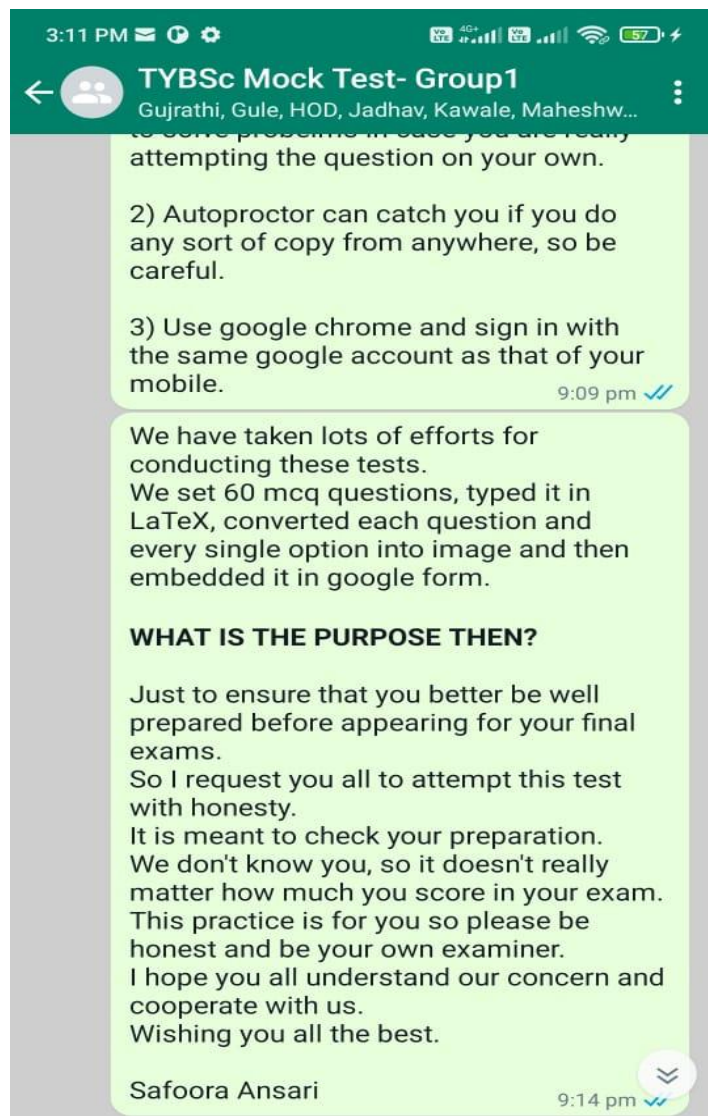
Not only this, the group still remains active and students from Pune, Ahmed Nagar and Nashik district cooperated each other by sharing news related to exams, notes of their colleges and even addressed each other’s queries.

We as an organizers and teachers had great deal of satisfaction after the conduct of this student centric activity.

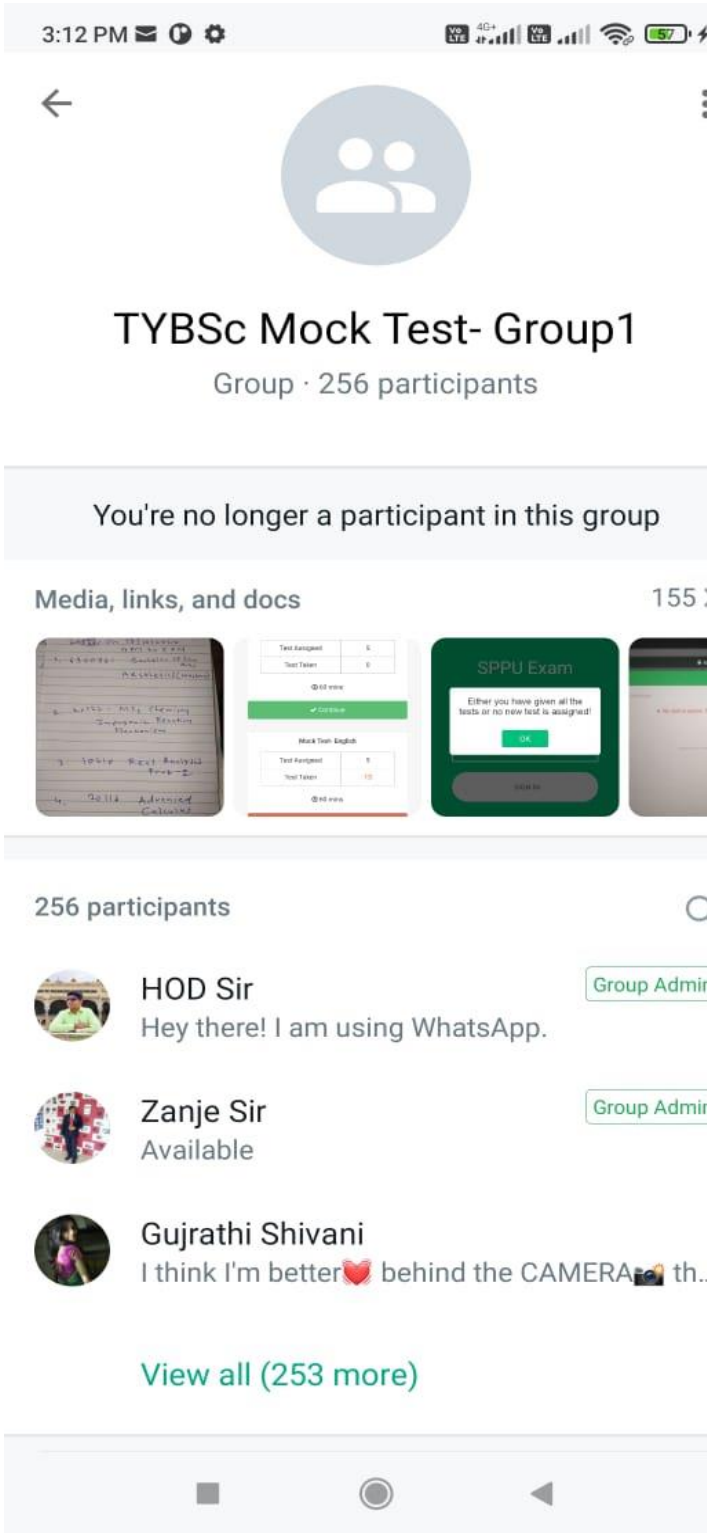
Mr. Chaitanya B. Kumbharde



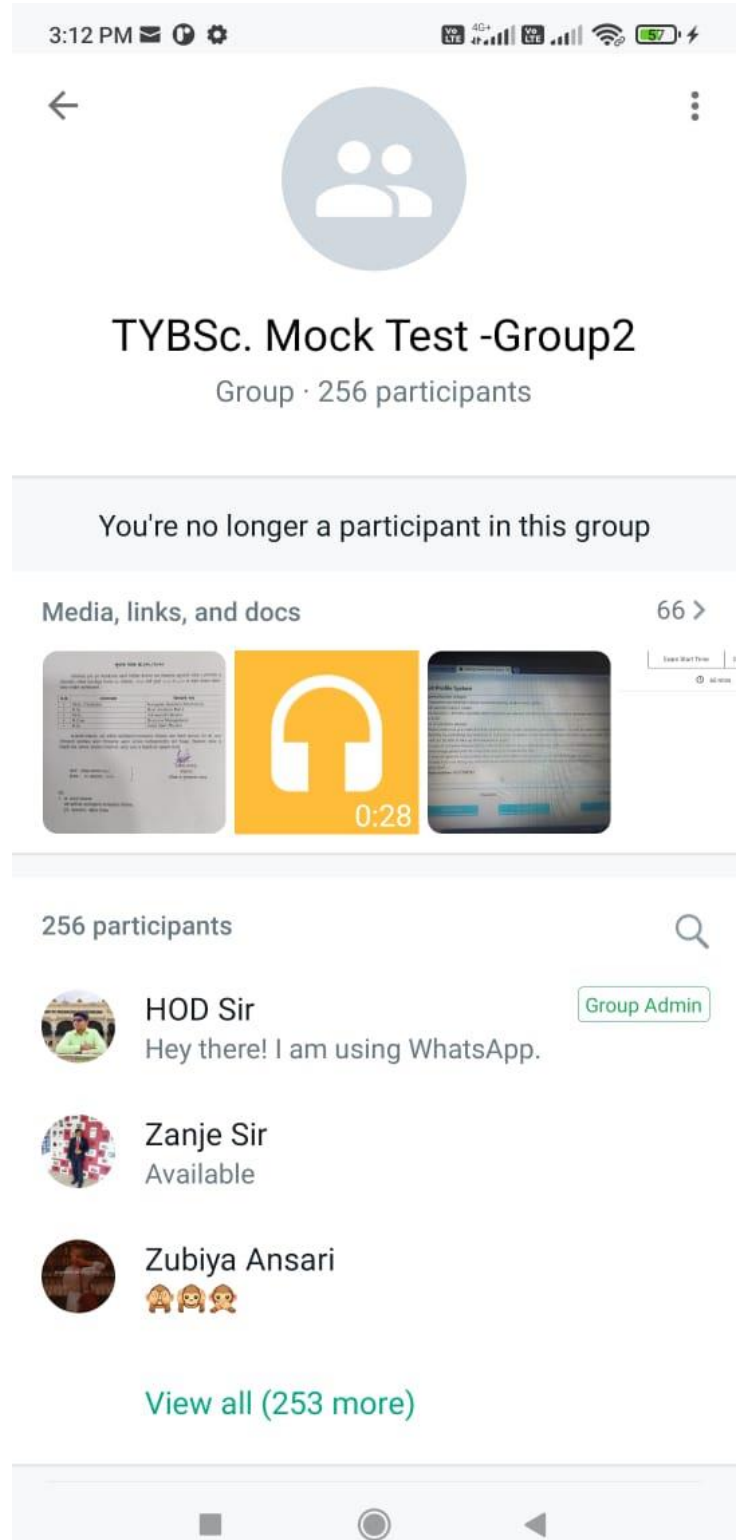
INSTRUCTIONS

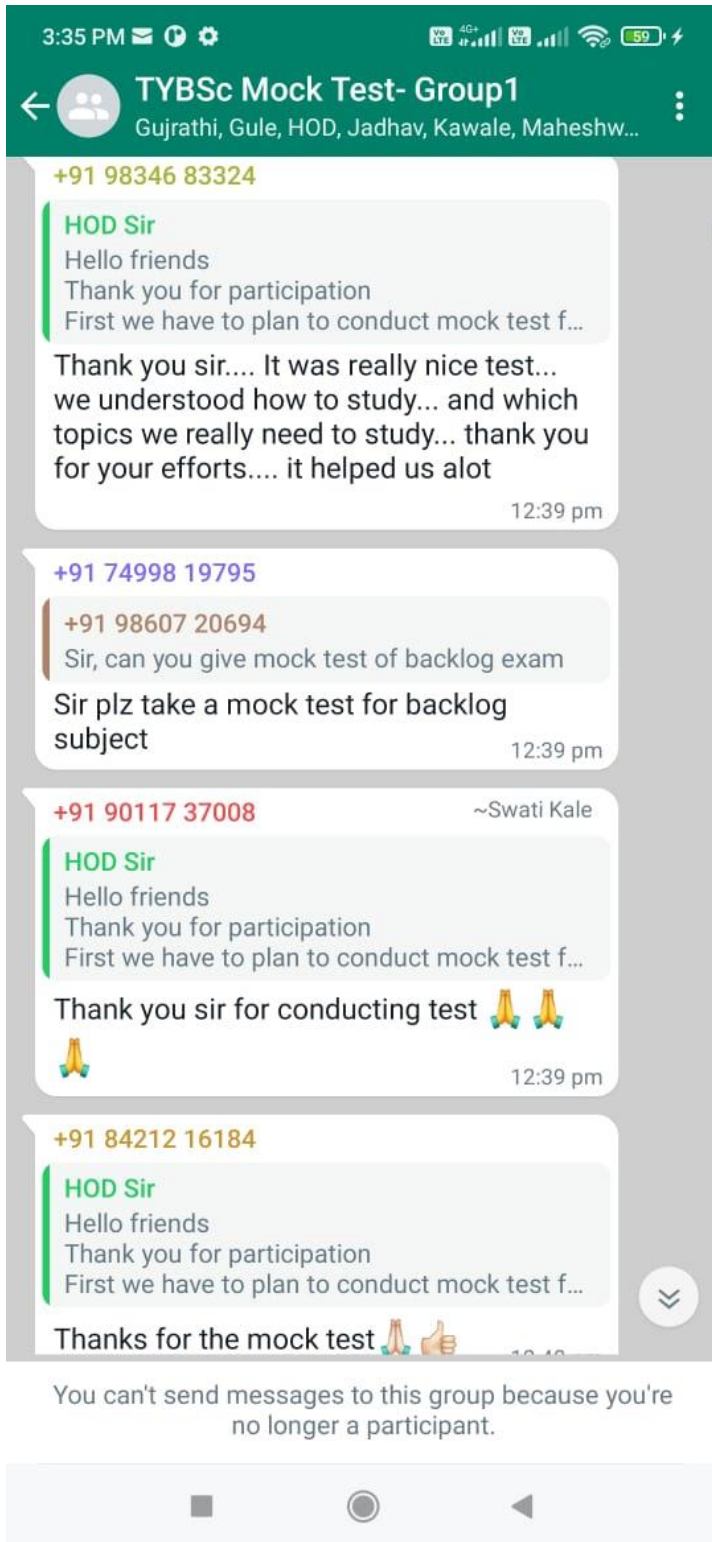


You can't send messages to this group because you're no longer a participant.

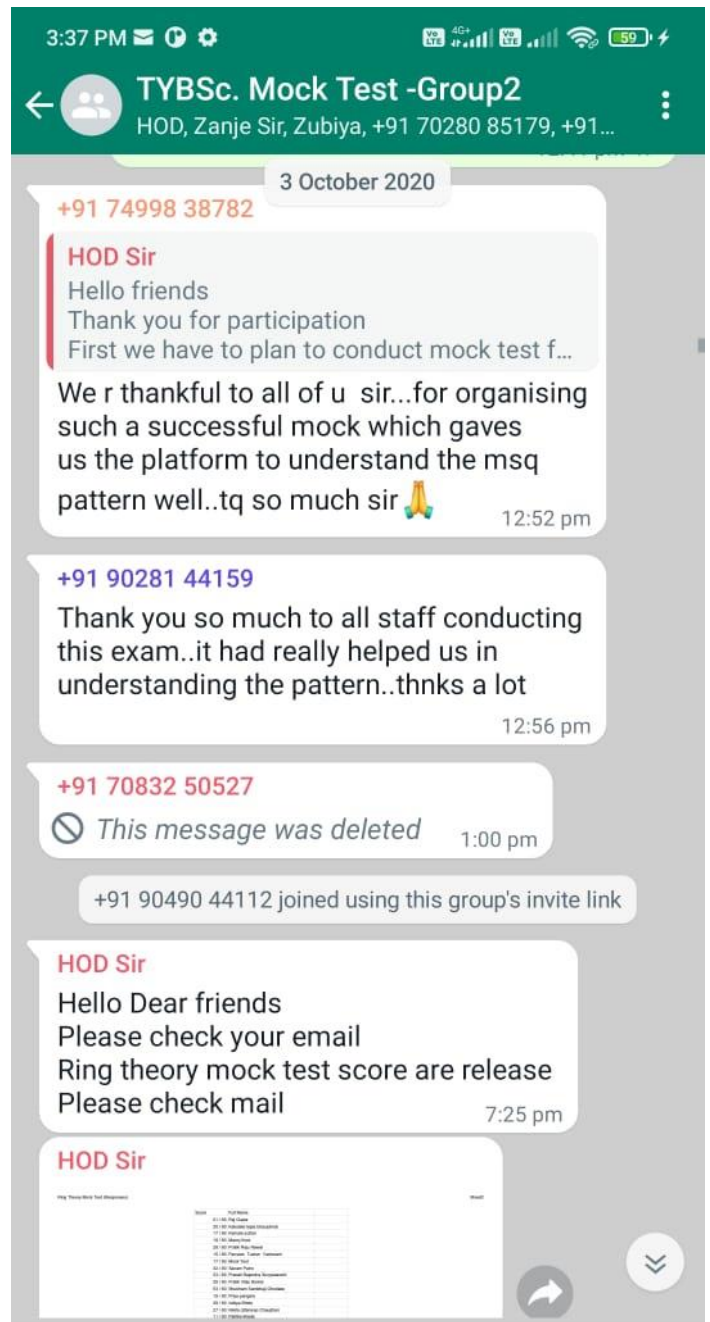


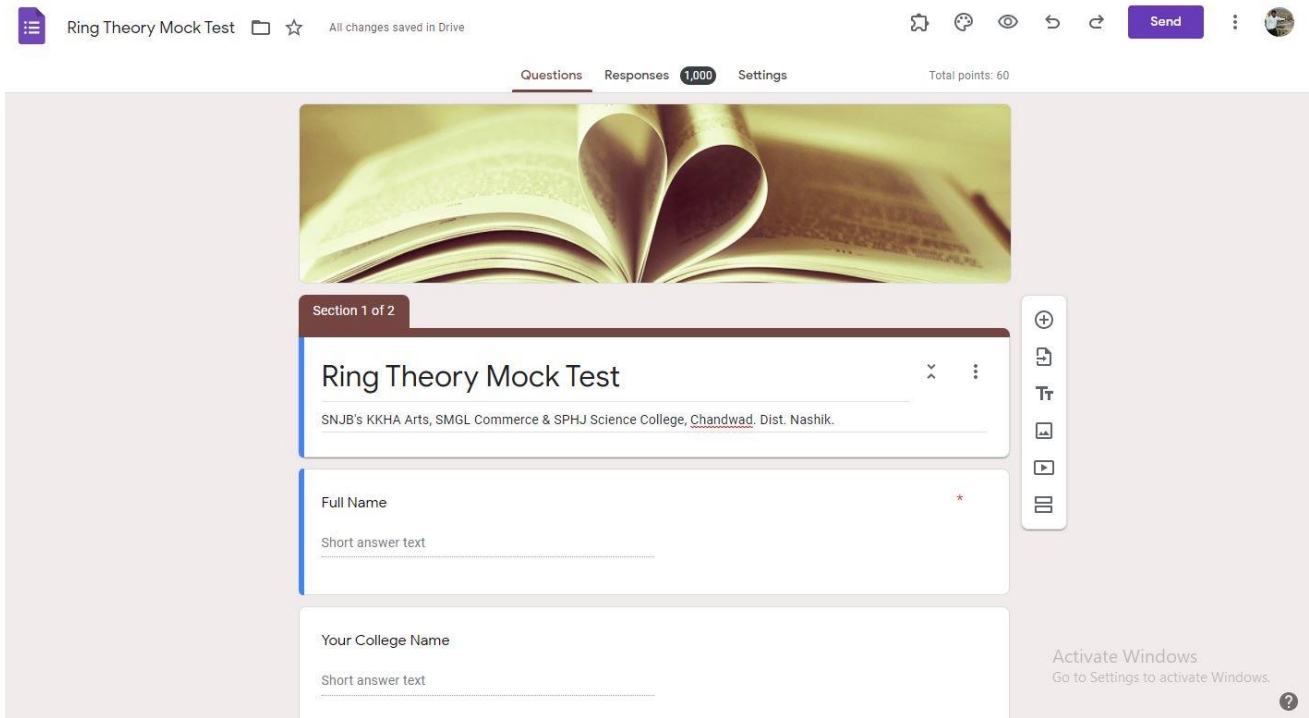
Formation of WhatsApp Groups



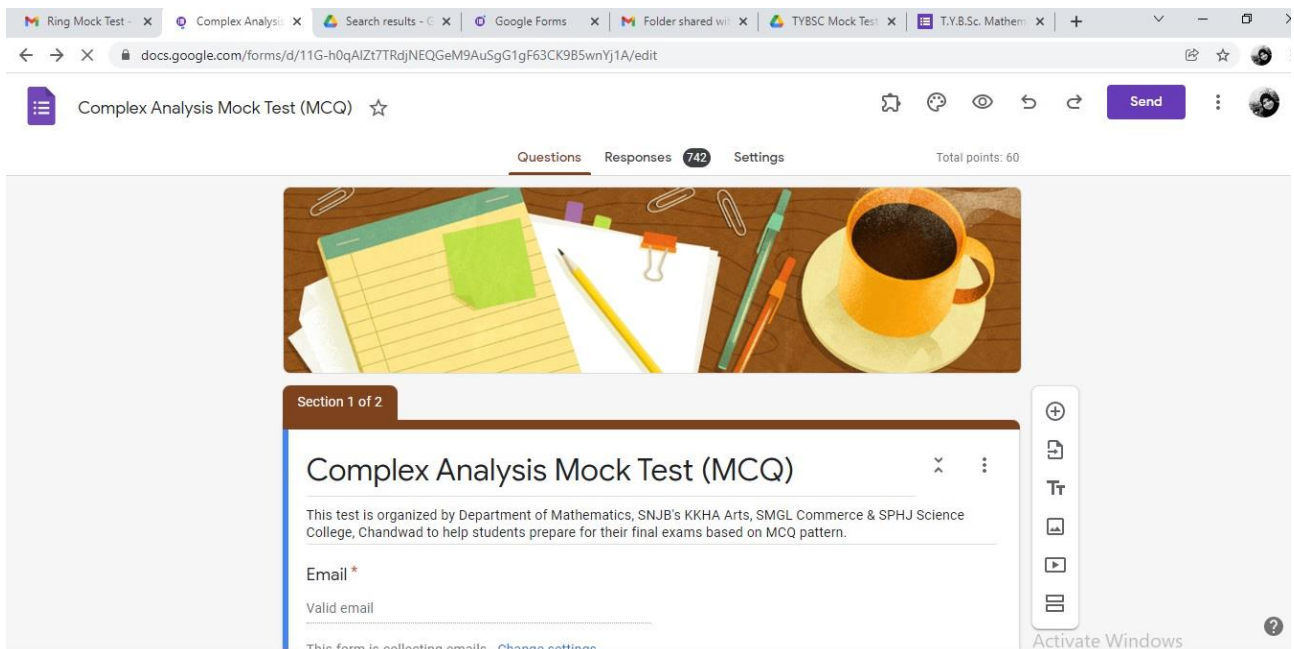


FEEDBACK





Screenshots of Google Forms



T.Y.B.Sc. Mathematics Mock Test

Fill Your Complete information and after submitting google form must join WhatsApp Group

* Required

1. Full Name *

2. Email Id *

3. Mobile Number (WhatsApp Number) *

4. Name of your college with Address *

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Google Forms

Complex Analysis Mock Test (MCQ)

This test is organized by Department of Mathematics, SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad to help students prepare for their final exams based on MCQ pattern.

* Required

1. Email *

2. Name *

3. College *

4. District *

Mark only one oval.

Nashik

Ahmed Nagar

Pune

Skip to question 5

MCQ Test

In this section you will have 60 questions . You have to attempt at least 50 questions

5. Question 1

1 point

$$\operatorname{Re}(iz) = ?$$

Mark only one oval.

 $\operatorname{Im} z$ Option 1 $-\operatorname{Im} z$ Option 2 $\operatorname{Re} z$ Option 3 $-\operatorname{Re} z$ Option 4

6. Question 2

1 point

$$\frac{4 + i}{2 - 3i} = ?$$

Mark only one oval.

$$-\frac{5}{13} + \frac{14}{13}i$$

Option 1

$$\frac{5}{13} - \frac{14}{13}i$$

Option 2

$$\frac{5}{13} + \frac{14}{13}i$$

Option 3

$$-\frac{5}{13} - \frac{14}{13}i$$

Option 4

7. Question 3

1 point

If $z_1 = (-3, 1)$ and $z_2 = (1, 4)$ then $z_1 + z_2$ lies in

Mark only one oval.

- I quadrant
- II quadrant
- III quadrant
- IV quadrant

8. Question 4

1 point

$Re(\bar{z} - i) = 2$ represents

Mark only one oval.

- a circle
- line passing through origin
- line parallel to real axis
- line parallel to imaginary axis

9. Question 5

1 point

$$\text{Arg}(-2 - 2i) = ?$$

Mark only one oval.

$$-\frac{3\pi}{4}$$

Option 1

$$\frac{3\pi}{4}$$

Option 2

$$\frac{\pi}{4}$$

Option 3

$$-\frac{\pi}{4}$$

Option 4

10. Question 6 The sum of all three cube roots of unity is equal to

1 point

Mark only one oval.

1

-1

3

0

11. Question 7

1 point

Roots of the equation $z = (-16)^{\frac{1}{4}}$ lie on

Mark only one oval.

- unit circle
- square
- rectangle
- triangle

12. Question 8

1 point

What is the domain in which the function $f(z) = \frac{z}{z + \bar{z}}$ can be defined?

Mark only one oval.

$$\operatorname{Re} z = 0$$

Option 1

$$\operatorname{Im} z = 0$$

Option 2

$$\operatorname{Im} z \neq 0$$

Option 3

$$\operatorname{Re} z \neq 0$$

Option 4

13. Question 9

1 point

Real part of the function $f(z) = z^2 + 2z + 2 + i$ is

Mark only one oval.

$$x^2 - y^2 + 2x + 2$$

Option 1

$$x^2 - y^2 - 2x + 2$$

Option 2

$$x^2 - y^2 - 2x - 2$$

Option 4

$$x^2 + y^2 + 2x + 2$$

Option 4

14. Question 10

1 point

$$\lim_{z \rightarrow 1-i} [x + i(2x + y)] = ?$$

Mark only one oval.

$$1 - i$$

Option 1

$$-1 + i$$

Option 2

$$1 + i$$

Option 3

$$-1 - i$$

Option 4

15. Question 11

1 point

What is/are the points of discontinuities of the function

$$f(z) = \frac{2z - 3}{z^2 - 2z + 2}$$

Mark only one oval.

$$1 + i$$

Option 1

$$1 - i$$

Option 2

both $1 + i$ and $1 - i$

Option 3

$$-1 - i$$

Option 4

16. Question 12

1 point

What is the region of continuity for the function

$$f(z) = \frac{z^2 + 1}{z^2 - 3z + 2}$$

Mark only one oval.

$$|z| = 1$$

Option 1

$$|z| = 2$$

Option 2

$$|z| < 2$$

Option 3

$$|z| > 2$$

Option 4

17. Question 13

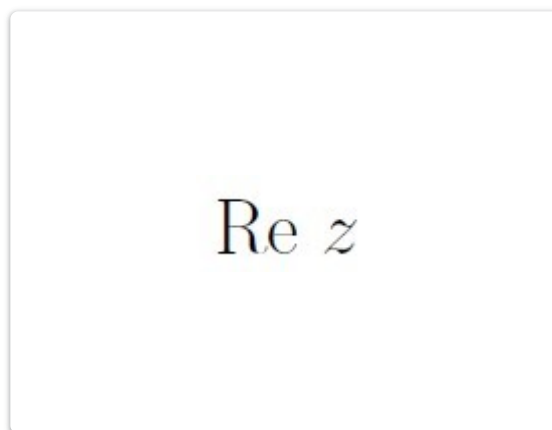
1 point

$$\lim_{z \rightarrow 0} \frac{\bar{z}^2}{z} = ?$$

Mark only one oval.

does not exist

1



0

Option 4

18. Question 14

1 point

Which of the following statements about the function

$$f(z) = |z|^2$$

is correct ?

Mark only one oval.

f is continuous everywhere except $z = 0$

 Option 1 f is continuous everywhere and is nowhere differentiable f is nowhere continuous f is continuous everywhere and is nowhere differentiable except at the origin

19. Question 15

1 point

Consider the following statement.

The function $f(z) = \bar{z}$ is continuous everywhere but differentiable nowhere.

This statement is....

Mark only one oval.

False

True

True only for $z = 0$

False only for $z = 0$

Option 3

Option 4

20. Question 16: Which of the following is the polar form of Cauchy-Riemann equation? 1 point

Mark only one oval.

$$u_r = \frac{1}{r}v_\theta, u_\theta = -rv_r$$

Option 1

$$u_r = -\frac{1}{r}v_\theta, u_\theta = rv_r$$

Option 2

$$u_r = -rv_\theta, u_\theta = rv_r$$

Option 3

$$u_r = rv_\theta, u_\theta = -\frac{1}{r}v_r$$

Option 4

21. Question 17

1 point

The function $f(z) = e^{\bar{z}}$ is

Mark only one oval.

analytic everywhere in \mathbb{C}

Option 1

analytic only at $z = 0$

Option 2

analytic nowhere in \mathbb{C}

Option 3

analytic everywhere except at $z = 0$

Option 4

22. Question 18

1 point

If $f(z)$ and $\overline{f(z)}$ are both analytic in a given domain D then what can you say about the function f ?

Mark only one oval.

f is identically zero

Option 1

f is a non-zero function

Option 2

f is a constant function

Option 3

f is a non-constant function

Option 4

23. Question 19

1 point

Suppose that f is analytic in a given domain D and $|f(z)| = 7$ then

Mark only one oval.

$$f(z) = 7 \forall z \in D$$

Option 1

f is a polynomial

Option 2

f is identically zero

Option 3

f is a constant function

Option 4

24. Question 20

1 point

Choose the correct alternative for the analyticity of the function $f(z) = xy + iy$

Mark only one oval.

f is nowhere analytic

Option 1

f is everywhere analytic

Option 2

f is nowhere analytic except at origin

Option 3

f is analytic everywhere except at origin

Option 4

25. Question 21

1 point

If v is harmonic conjugate of $u(x, y)$ in a domain D then any other harmonic conjugate of $u(x, y)$ is obtained by

Mark only one oval.

multiplying v by a constant

Option 1

dividing v by a constant

Option 2

adding to v a constant

Option 3

squaring v

Option 4

26. Question 22

1 point

The function $f(x, y)$ satisfying the differential equation

$$f_{xx} + f_{yy} = 0$$

is known as

Mark only one oval.

- entire function
- analytic function
- harmonic function
- meromorphic function

27. Question 23

1 point

What is the harmonic conjugate of $e^x \cos y$?

Mark only one oval.

$$e^x \sin y$$

Option 1

$$e^{-x} \sin y$$

Option 2

$$-e^x \sin y$$

Option 3

$$-e^{-x} \sin y$$

Option 4

28. Question 24

1 point

$$\exp 4\pi i = ?$$

Mark only one oval.

 -1

Option 1

 i

Option 2

 $-i$

Option 3

 1

Option 4

29. Question 25 Choose the false statement from the following:

1 point

Mark only one oval.

$$|\exp z| = e^x$$

Option 1

$$\arg(\exp z) = \operatorname{Im} z$$

Option 2

$$\exp(z + 2n\pi) = \exp z$$

Option 3

$$\exp(z + \pi i) = -\exp z$$

Option 4

30. Question 26

1 point

$\exp z = -2$ if and only if

Mark only one oval.

$$z = \ln 2 - \pi i$$

Option 1

$$z = \ln 2 + (2n + 1)\pi i$$

Option 2

$$z = \ln 2 - (2n + 1)\pi i$$

Option 3

$$z = \ln 2$$

Option 4

31. Question 27

1 point

What are the respective values of $\log 1$ and $\text{Log } 1$?

Mark only one oval.

$2n\pi$ and 0

Option 1

0 and $2n\pi$

Option 2

0 and 0

Option 3

$2n\pi i$ and 0

Option 4

32. Question 28

1 point

$$\text{Log}(i^3) = ?$$

Mark only one oval.

$$\frac{\pi}{2}i$$

Option 1

$$-\frac{\pi}{2}i$$

Option 2

$$\pi i$$

Option 3

$$-\pi i$$

Option 4

33. Question 29

1 point

What is the principal value of i^i ?

Mark only one oval.

$$\exp \pi$$

Option 1

$$\exp \frac{\pi}{2}$$

Option 2

$$\exp -\frac{\pi}{2}$$

Option 3

$$1$$

Option 4

34. Question 30

1 point

What is the period of $\cos z$?

Mark only one oval.

$$2\pi$$

Option 1

$$n\pi$$

Option 2

$$2n\pi i$$

Option 3

$$2n\pi$$

Option 4

35. Question 31

1 point

The common attribute of $\sin x, x \in \mathbb{R}$ and $\sin z, z \in \mathbb{C}$ is

Mark only one oval.

- both are bounded
- both are periodic
- both are injective
- both are surjective

36. Question 32

1 point

$$\cosh(z + \pi i) = ?$$

Mark only one oval.

 $\cosh z$ Option 1 $-\cosh z$ Option 2 $\sinh z$ Option 3 $-\sinh z$ Option 4

37. Question 33

1 point

$$\frac{d}{dz} \cosh z = ?$$

Mark only one oval.

$$-\sinh z$$

Option 1

$$\operatorname{sech} z$$

Option 2

$$\sinh z$$

Option 3

$$\operatorname{cosech} z$$

Option 4

38. Question 34 A Jordan curve is

1 point

Mark only one oval.

- simple curve
- closed curve
- simple closed curve
- self intersecting curve

39. Question 35

1 point

What is the value of $\int_C (z - 1) dz$ where C is the semicircle $z = 1 + e^{i\theta}$ ($\pi \leq \theta \leq 2\pi$) from $z = 0$ to $z = 2$?

Mark only one oval.

0

 Option 1

1

 Option 2 2π Option 3 $2\pi i$ Option 4

40. Question 36

1 point

Let C be the arc of the circle $|z| = 2$ from $z = 2$ to $z = 2i$ then the upper bound of $\left| \frac{z+4}{z^3-1} \right|$ is

Mark only one oval.

$$\frac{6}{7}$$

Option 1

$$\frac{7}{6}$$

Option 2

$$\frac{6\pi}{7}$$

Option 3

$$6$$

Option 4

41. Question 37

1 point

Let C be a triangle containing the origin then $\int_C \sinh z dz$ is

Mark only one oval.

 π 2π Option 1 Option 2

0

1

 Option 3 Option 4

42. Question 38

1 point

Let C be a unit circle $|z| = 1$ in either direction then

$$\int_C \text{Log}(z + 2) dz$$

is

Mark only one oval.

π

2π

Option 1

Option 2

0

1

Option 3

Option 4

43. Question 39

1 point

Let C be the straight line segment from $z = -i$ to $z = i$ then

$$\int_C (3z - 1) dz \text{ is}$$

Mark only one oval.

0

 Option 1

-2

 Option 2 $2i$ Option 3 $-2i$ Option 4

44. Question 40

1 point

What is the value of $\int_C \frac{1}{z^2 + 4} dz$ if C is the circle $|z - i| = 2$

Mark only one oval.

$$\frac{1}{4\pi i}$$

Option 1

$$4\pi i$$

Option 2

$$0$$

Option 3

$$\frac{\pi}{2}$$

Option 4

45. Question 41

1 point

If C is the circle $|z-1| = 2$ then what is the value of $\int_C \frac{\sin \pi z}{(z-1)^2} dz$?

Mark only one oval.

$$-2\pi^2 i$$

Option 1

$$-2\pi i$$

Option 2

$$-\pi$$

Option 3

$$0$$

Option 4

46. Question 42

1 point

Consider the statement

Suppose that a function f is analytic throughout a disk $|z - z_0| < R_0$, centered at z_0 and with radius R_0 . Then $f(z)$ has the power series representation $f(z) = \sum_{n=0}^{\infty} a_n(z - z_0)^n$ ($|z - z_0| < R_0$) where $a_n = \frac{f^{(n)}(z_0)}{n!}$ ($n = 0, 1, 2, 3, \dots$).

This is a statement of

Mark only one oval.

- Laurent's Theorem
- Maximum Modulus Theorem
- Taylor's Theorem
- Cauchy-Goursat Theorem

47. Question 43

1 point

If an analytic function has a Maclaurin's series then the disk in which the function is analytic has a center at $z = ?$

Mark only one oval.

- 1
- 0
- i
- i

48. Question 44

1 point

Taylor's series for the function $f(z) = \frac{z}{3z+1}$ is valid in the region

Mark only one oval.

$$|z| < 1$$

Option 1

$$|z| > \frac{1}{3}$$

Option 2

$$|z| < \frac{1}{3}$$

Option 3

$$|z| < 3$$

Option 4

49. Question 45: The Taylor's series of an entire function is valid in the region 1 point

Mark only one oval.

$$|z| > 0$$

Option 1

$$|z| > \infty$$

Option 2

$$|z| < \infty$$

Option 3

$$|z| > 2$$

Option 4

50. Question 46

1 point

The Taylor's series for the function $f(z) = \frac{1}{z}$ about the point $z_0 = 1$ is

Mark only one oval.

$$\sum_{n=0}^{\infty} (-1)^n (z-1)^n$$

Option 1

$$\sum_{n=0}^{\infty} (z-1)^n$$

Option 2

$$\sum_{n=0}^{\infty} (-1)^n (z+1)^n$$

Option 3

$$\sum_{n=0}^{\infty} (z+1)^n$$

Option 4

51. Question 47

1 point

What is the Maclaurin's series representation for the function $\cosh z$ in $|z| < \infty$?

Mark only one oval.

$$\sum_{n=0}^{\infty} \frac{z^{2n}}{(2n)!}$$

Option 1

$$\sum_{n=0}^{\infty} \frac{z^{2n+1}}{(2n+1)!}$$

Option 2

$$\sum_{n=0}^{\infty} (-1)^n \frac{z^{2n}}{(2n)!}$$

Option 3

$$\sum_{n=0}^{\infty} (-1)^n \frac{z^{2n+1}}{(2n+1)!}$$

Option 4

52. Question 48

1 point

What is the coefficient b_n in Laurent's series?

Mark only one oval.

$$\frac{1}{2\pi i} \int_C \frac{f(z)}{(z - z_0)^{n+1}} dz$$

Option 1

$$\frac{n!}{2\pi i} \int_C \frac{f(z)}{(z - z_0)^{n+1}} dz$$

Option 2

$$\frac{1}{2\pi i} \int_C \frac{f(z)}{(z - z_0)^{n-1}} dz$$

Option 3

$$\frac{1}{2\pi i} \int_C \frac{f(z)}{(z - z_0)^{-n+1}} dz$$

Option 4

53. Question 49

1 point

How many terms with positive powers of z are there in the series expansion of $e^{\frac{1}{z}}$?

Mark only one oval.

 1 2 3 0

54. Question 50

1 point

How many regions are there in which one can express

$$f(z) = \frac{1}{(z-1)(z-2)}$$

as a Laurent's series?

Mark only one oval.

 1 2 3 4

55. Question 51

1 point

. Let z_0 be a singular point of a function f . If there exists $\epsilon > 0$ such that f is analytic throughout $0 < |z - z_0| < \epsilon$ then z_0 is called

Mark only one oval.

- Simple pole
- pole of order m
- essential singularity
- isolated singularity

56. Question 52

1 point

Residue of the function $f(z) = z^2 \sin \frac{1}{z}$ is

Mark only one oval.

$$\frac{1}{3!}$$

Option 1

$$-\frac{1}{3!}$$

Option 2

$$\frac{1}{3}$$

Option 3

$$-\frac{1}{3}$$

Option 4

57. Question 53

1 point

What kind of singularity a function $f(z) = \frac{\sin z}{z}$ has at $z = 0$?

Mark only one oval.

- essential singularity
- simple pole
- removable singularity
- pole of order 2

58. Question 54

1 point

$f(z) = \frac{\sinh z}{z^4}$ has a pole of order at $z = 0$.

Mark only one oval.

- 1
- 2
- 3
- 4

59. Question 55

1 point

What kind of singularity a function $f(z) = \frac{1 - \cosh z}{z^3}$ has at $z = 0$?

Mark only one oval.

- Removable singularity
- Pole of order 3
- Essential singularity
- Simple pole

60. Question 56

1 point

The residue of $\frac{z^2}{(z-1)(z-2)(z-3)}$ at $z = 1$ is

Mark only one oval.

 $\frac{1}{2}$ -4 Option 1 Option 2 $\frac{9}{2}$ 0 Option 3 Option 4

61. Question 57

1 point

The function $f(z) = e^z$ is a function.

Mark only one oval.

one-to-one

periodic

onto

bijective

62. Question 58

1 point

The function $f(z) = e^z$ assumes every value in the complex plane except

Mark only one oval.

0

1

i

-i

63. Question 59

1 point

If C is a unit circle then $\int_C \frac{e^z}{z-5} dz$ is

Mark only one oval.

$2\pi i$

Option 1

2π

Option 2

0

Option 3

1

Option 4

64. Question 60

1 point

A singular point $z = z_0$ is a simple pole if the principal part of the Laurent's series expansion of $f(z)$ contains

Mark only one oval.

- finite terms
- only one term
- infinite terms
- no term

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Google Forms

Complex Analysis Mock Test Score Sheet

Sr. No.	Name	Score
1.	Arti Ashok Dalvi	1 / 60
2.	Innate sonawane	1 / 60
3.	Ramdas Balasaheb Yamgar	0 / 60
4.	Andhale varsha Santosh	15 / 60
5.	Abhishek Devidas Bhise	10 / 60
6.	TK	19 / 60
7.	Neha	22 / 60
8.	Pathak P	6 / 60
9.	Aditya Bhide	24 / 60
10.	RESMI M MOMIN	15 / 60
11.	Tejashri Manohar Nikam	14 / 60
12.	Nikita Dadasaheb Mandhare	21 / 60
13.	Jay	13 / 60
14.	Amruta kulkarni	18 / 60
15.	Mahesh Vasanta Lode	13 / 60
16.	Ugale Snehal pandit	18 / 60
17.	Mayuri Bhosle	3 / 60
18.	Shirsath Ashwini Malhari	19 / 60
19.	Pratik Borkar	18 / 60
20.	Tejashri manohar nikam	11 / 60
21.	Manisha thete	13 / 60
22.	Kadam Harshada Shivaji	13 / 60
23.	Abhijit G Anchewad	22 / 60
24.	Karpe anuja	17 / 60
25.	Komal gupta	15 / 60
26.	Ashutosh	26 / 60
27.	Pooja kandekar	15 / 60
28.	Pallavi Nikam	33 / 60
29.	Dipak Prakash Patil	15 / 60
30.	Maya Vijay Wagh	16 / 60
31.	Soni Rashee Sandeep	30 / 60
32.	Shaikh humera	17 / 60
33.	Sandhya Tambe	5 / 60
34.	Ashwini Vijay Bhavar	19 / 60
35.	Vijay Anil Girme	11 / 60
36.	Lokare Akshay	18 / 60
37.	Thombare Dipali Babasaheb	26 / 60
38.	Vaibhav Mangade	1 / 60
39.	Vaishali borse	18 / 60
40.	Suyash sunil kolhal	15 / 60
41.	Kadam anuja bhaskar	17 / 60
42.	Ansari Hena Kausar	27 / 60
43.	Shaikh Saima Murtuza	16 / 60
44.	Sneha Yadav	39 / 60
45.	Neha	26 / 60
46.	Muskan Zainuddin shaikh	12 / 60
47.	Nikam Ashwini Bhagwan	13 / 60
48.	Nikhil Dnyaneshwar khandalkar	16 / 60
49.	Anuja	9 / 60
50.	Shubham Sambhaji Ghodake	38 / 60
51.	Bhushan aher	34 / 60
52.	Shrutika Jayant Vichare	27 / 60

53.	Rahul Santosh said	13 / 60
54.	Kumawat Kalpana Nemichand	32 / 60
55.	Komal Rajendra Dhakane	32 / 60
56.	Tushar Yashwant Pansare	18 / 60
57.	Vaishnavi Arvind Gawali	10 / 60
58.	Shirole jyotsna ashok	22 / 60
59.	Ajay	14 / 60
60.	Sayali bhor	19 / 60
61.	Manoj Bhandwalkar	17 / 60
62.	Amrut Buva	31 / 60
63.	Akshada Ganesh Kadu	21 / 60
64.	Girija Purohit	17 / 60
65.	Wagh pooja	23 / 60
66.	Jadhav Prajwal Sanjay	22 / 60
67.	Nikita Uttamrao Chaudhari	31 / 60
68.	Sandhya Kumari	20 / 60
69.	Shivani Laxman Kale	18 / 60
70.	Pooja Pokharkar	22 / 60
71.	Pooja dilip sinalkar	28 / 60
72.	Hamiya Asif Kotwal	32 / 60
73.	MANOJ kore	20 / 60
74.	Pooja Anna Ghadge	33 / 60
75.	Shraddha Doijode	19 / 60
76.	Galave Pramod Laxman	27 / 60
77.	Sarita umeshchandra yadav	27 / 60
78.	Pritam Sunil Chaudhari	17 / 60
79.	Panthini Patel	14 / 60
80.	PROF PARSHURAM A AHIRE	37 / 60
81.	Mahesh arjun pacharne	19 / 60
82.	Tekale	19 / 60
83.	Gatkal Latika Ramrao	41 / 60
84.	komal Shridhar bhaware	26 / 60
85.	Priya pangare	11 / 60
86.	muskan irfan shaikh	15 / 60
87.	suvarna somvanshi	32 / 60
88.	Yogesh Vyawahare	18 / 60
89.	Prerana	18 / 60
90.	Safaljeet Pawar	24 / 60
91.	Dabbu	21 / 60
92.	Priyanka pandey	19 / 60
93.	Tejaswini Khairnar	16 / 60
94.	Arkhade Rohini Govind	24 / 60
95.	Pathade Pooja Chandrakant	22 / 60
96.	Dhanashri anil Jadhav	19 / 60
97.	Khairnar Sayali Vishwanath	15 / 60
98.	Ugale pranjal shivaji	22 / 60
99.	Shubham kakade	7 / 60
100.	Ashwini Pandurang Gopale	27 / 60
101.	Rishabh Pandey	32 / 60
102.	Faiza Farhat Naseruddin	22 / 60
103.	Megha Arun Gore	13 / 60
104.	Bhor ashwini Ramdas	30 / 60
105.	Patil Madhuri Hiralal	14 / 60

106.	Roshani Dineshsingh Bagul	28 / 60
107.	Dushing Swati Madhukar	20 / 60
108.	Maimom Mahesh Singh	15 / 60
109.	Kadam Shital Sanjay	33 / 60
110.	Dipali Suresh pandit	18 / 60
111.	Vrushali Vasudeo Raut	16 / 60
112.	Aishwarya Rajendra Bachhav	25 / 60
113.	Suryawanshi swati shalikrao	19 / 60
114.	Pratiksha Dilip rukari	33 / 60
115.	Pooja pappu dede	18 / 60
116.	Arya zola	16 / 60
117.	Nikhil Bhosale	18 / 60
118.	Satyam Gavhane	16 / 60
119.	Kalyani Dinkar Gaikwad	17 / 60
120.	Nagare Ashwini bhagwan	20 / 60
121.	Pallavi Bhagwan Badade	34 / 60
122.	Hemant shinde	19 / 60
123.	Saba Farid Kazi	16 / 60
124.	Rutuja Ramesh Dhikale	16 / 60
125.	Dhanashri sanjay more	13 / 60
126.	Atiffaisal	21 / 60
127.	Kendre Mayuri Balajirao	26 / 60
128.	Ashwini hari bhau kokare	28 / 60
129.	Ankita balasaheb mate	32 / 60
130.	Prajakta Bapusaheb Pote	14 / 60
131.	shital satish solanke	14 / 60
132.	Sandhya vinayak Jadhav	31 / 60
133.	Sairam Patro	41 / 60
134.	Bhagyashri ramdas Jadhav	14 / 60
135.	Swapnali shinde	32 / 60
136.	Kale mayuri bapurao	19 / 60
137.	Adsure Shubham Anil	15 / 60
138.	Shadab ahmed	41 / 60
139.	Kapadnis Sonal Chandrakant	36 / 60
140.	Prachi Gokul Nannavare	22 / 60
141.	Prachi Sanjay Vedpathak	21 / 60
142.	Nimbhore TusharDipak	28 / 60
143.	Pratiksha jotiram jagtap	24 / 60
144.	Hire kajal Ramkant	19 / 60
145.	Waghmode Madhavi Dattatraya	37 / 60
146.	Nakiyya	9 / 60
147.	patil mohini	19 / 60
148.	Jadhav meghana babu	21 / 60
149.	Priya Popat Bhosale	21 / 60
150.	Varsha Sandip Pathade	27 / 60
151.	Vedant pramod	25 / 60
152.	Walhekar Bharati Jaywant	18 / 60
153.	Momin Faqeeha	17 / 60
154.	Aqueel Ahmed Nazeer Ahmed	22 / 60
155.	Shankar Thite	18 / 60
156.	Pratibha jadhav	24 / 60
157.	Swapnil Uttare	18 / 60
158.	Mane Vishal Abhimanyu	37 / 60

159.	Kiran changdev bhagat	14 / 60
160.	Srushti Shankar Ghadage	32 / 60
161.	Tushar Ahire	12 / 60
162.	Abu Huzaifa Md Mustafa	12 / 60
163.	Shivanjali Misal	22 / 60
164.	Khushi Manish Racca	26 / 60
165.	Vairal Priyanka	11 / 60
166.	Bachhav Ashwini Bhausahab	14 / 60
167.	Shital pawar	26 / 60
168.	Madhuri Tope	30 / 60
169.	muley prajakta milind	21 / 60
170.	Moin Pooja Ramesh	19 / 60
171.	Mhaske Kamini Sunil	23 / 60
172.	Shinde Kalyani Sanjay	18 / 60
173.	sadashiv padvi	22 / 60
174.	Pranali Rajendra Suryawanshi	15 / 60
175.	Santoshi	15 / 60
176.	Abhijeet sunil bhosale	38 / 60
177.	Neha	16 / 60
178.	Ashvini Balasaheb GaWhane	33 / 60
179.	Ashwini Bharat doke	23 / 60
180.	Shinde Mansi	20 / 60
181.	Mrunalini Pandit Shirole	11 / 60
182.	bhushan kadgaye	27 / 60
183.	Khairi prajakta sandip.	15 / 60
184.	Aarti Dhruvbal Tikhe.	18 / 60
185.	Nivida Naren Joshi	31 / 60
186.	Abhijeet Dnyandeo Pote	20 / 60
187.	Sneha vijay yadav	17 / 60
188.	Ansari Nabeela Kausar Mohammed Irfan	21 / 60
189.	Pooja Gorakh Mali	25 / 60
190.	PATEL VISHVA YOGESHBHAI	27 / 60
191.	Dimpal Hiralal Kaurani	39 / 60
192.	Shaikh Anas	27 / 60
193.	Priyali sandeep Gaikwad	17 / 60
194.	Simran Raju Shaikh	15 / 60
195.	Kapadnis yojana rakesh	30 / 60
196.	NAMEERA JAMIL KAZI	30 / 60
197.	Pradnya Shyam Jadhav	16 / 60
198.	Sapkal Prajakta Dattatraya	21 / 60
199.	Sathe	16 / 60
200.	Dhaigude nikita dilip	38 / 60
201.	Manisha Nagnarayan Pandit	24 / 60
202.	Maheshwari jadhav	37 / 60
203.	Shinde Neha Baban	30 / 60
204.	Sachin Maroti Ramteke	26 / 60
205.	Sayyed Sabiha Feroz	27 / 60
206.	Parjane Nikita Babasaheb	29 / 60
207.	Priyanka Hanumant Gawali	29 / 60
208.	Seema Rajendra More	19 / 60
209.	Pushpa Latha Boddu	28 / 60
210.	Narute Dipali Vasant	27 / 60
211.	Rutuja Panse	29 / 60

212.	Supriya pomane	19 / 60
213.	Mankar Sonali Rajaram	21 / 60
214.	Pawar Dipali Jagannath	23 / 60
215.	Bagul	0 / 60
216.	Dabhade Kanchan Machhindra	11 / 60
217.	Prerna Praveen Jain	35 / 60
218.	Potphode mayuri nivrutti	23 / 60
219.	Taskeen T	30 / 60
220.	Vishal Dilip Bombe	23 / 60
221.	Shaikh Sauleha Arif	26 / 60
222.	Ramdas Balasaheb Yamgar	30 / 60
223.	Radha Vyankatrao Panchal	30 / 60
224.	Sonali chormale	27 / 60
225.	Anjum Sayyed	33 / 60
226.	Ahire Ujwala Sudhakar	21 / 60
227.	Pallavi Suresh Rahane	38 / 60
228.	Vinaya Tanaji Kadam	31 / 60
229.	ROHIT BHALODE	32 / 60
230.	Fatima Irshad Khan	24 / 60
231.	Kamthe Dnyaneshwari Kaluram	20 / 60
232.	Nikita pawar	28 / 60
233.	Shital Sarjerao Sonawane	27 / 60
234.	Swapna Patil	37 / 60
235.	Zikra Tamboli	21 / 60
236.	Bhushan Jadhav	24 / 60
237.	Thorat Sayali Ashok	36 / 60
238.	Shaikh Arshiya Hashim	28 / 60
239.	Laxmi Basavraj Arjun	21 / 60
240.	Tamboli Muskan Anis	21 / 60
241.	Gujrathi shivani suhas	26 / 60
242.	Sakshi Devdikar	30 / 60
243.	Shraddha Sanjay chavan	39 / 60
244.	Ankita parakh	36 / 60
245.	Ahire Renuka Kishor	29 / 60
246.	Complex test	22 / 60
247.	Snehal shankar more	42 / 60
248.	Shaikh Khansa Anis	22 / 60
249.	Neha	20 / 60
250.	More sonali	18 / 60
251.	Sathe Rajashri Rajendra	26 / 60
252.	Shaikh Swaleha Maqbool	6 / 60
253.	Bharti sunil madhe	24 / 60
254.	Gracy Sathe	25 / 60
255.	samrin pinjari	39 / 60
256.	pankaj bhara tajan e	24 / 60
257.	Priyanka Dhumal	22 / 60
258.	Munesh Jagtap	25 / 60
259.	Lakesh patel	28 / 60
260.	Pooja Bharat Midage	22 / 60
261.	Shubhangi Pardeshi	35 / 60
262.	Rohokale Sheetal Sambhaji	25 / 60
263.	Shaikh Saniya Papa	29 / 60
264.	Attar Samrin Shafique	21 / 60

265.	Gaurav Rajendra Chaudhari	33 / 60
266.	Vidhya S Nair	38 / 60
267.	Simran Shinde	19 / 60
268.	Ankita balasaheb vanarse	23 / 60
269.	Yadav Sony Shriniwas	20 / 60
270.	Monika pralhad sakunde	27 / 60
271.	Chinmay Dasarwar	25 / 60
272.	KHAN SHAMA MOHAMMED YASIN	13 / 60
273.	Tamboli Ishrat Viquar	32 / 60
274.	Yashshree	17 / 60
275.	Mangesh Dhananjayrao patil	30 / 60
276.	Kolpe Puja Dadasaheb	26 / 60
277.	Sanket Subhash Gawali	22 / 60
278.	Anup Bhagat	25 / 60
279.	TEJASWINI AJINATH KAKADE	42 / 60
280.	Mangade Vaibhav	23 / 60
281.	Nitish Sharma	32 / 60
282.	Kale Sumant	33 / 60
283.	Jagruti khanderao chaure	18 / 60
284.	Deepali	18 / 60
285.	Alfiya Gulab Sache	23 / 60
286.	Katariya ankita nareshbhai	20 / 60
287.	Sayali Bora	47 / 60
288.	Kajal Jadhav	29 / 60
289.	Neelam Brijesh Kushwaha	21 / 60
290.	SHAIKH MISBA ZULFIKAR	41 / 60
291.	Gangwal Apurva	36 / 60
292.	Sushma vidhichand yadav	18 / 60
293.	Pradyumna Pravinkumar Badave	47 / 60
294.	Deshmukh Pratiksha Prakash	38 / 60
295.	Chaitrali latake	28 / 60
296.	Shruti satish bathe	17 / 60
297.	Pratiksha Sambhaji Autade	33 / 60
298.	Adhav jayshri shankar	34 / 60
299.	Shaikh Namira Nasir	30 / 60
300.	Ram Vinchu	25 / 60
301.	Pansambal Harshada Bhausahab	34 / 60
302.	Geeta Bhujang Pawar	21 / 60
303.	AM2MY	35 / 60
304.	Aqsa sayyed	47 / 60
305.	Tejaswini Devidas Pawar	18 / 60
306.	Riya Thorat	41 / 60
307.	Anchal Agarwal	47 / 60
308.	Bhagyashri Ramdas desale	33 / 60
309.	soumya kolekar	39 / 60
310.	Bhamare pallavi Arun	19 / 60
311.	Jidnyasa Shripat Pachkude	37 / 60
312.	Vinay	29 / 60
313.	Singh Pratikshakumari Rajeevkumar	35 / 60
314.	Pratik Deshpande	28 / 60
315.	Patil Neha pramod	20 / 60
316.	Mandlik Vikas Shahaji	32 / 60
317.	Aniket Nagarkar	21 / 60

318.	Dhadiwal Tejal Santosh	42 / 60
319.	Shaikh Rukkaiya Rajmohamad	30 / 60
320.	Vasudha Jadhav	30 / 60
321.	Priyanka Suresh kolape	27 / 60
322.	Mansi arun jadhav	22 / 60
323.	Kawale Parmeshwari	30 / 60
324.	Salunkhe Dipti Rajendra	31 / 60
325.	Shaikh Fatema Shamim	26 / 60
326.	Walunj Pratiksha	22 / 60
327.	Ansari Shairina	19 / 60
328.	Inamdar kashaf farooque	19 / 60
329.	Pushpak Shewale	22 / 60
330.	Shahezeen Mohammad Arif Jamadar	19 / 60
331.	Daware madhuri rajaram	6 / 60
332.	Raktate sayali madhukar	26 / 60
333.	Akshada Pathare	28 / 60
334.	Reena Bhawnani	23 / 60
335.	Paswan santoshkumar shri Suresh	33 / 60
336.	Lulu Shaikh	23 / 60
337.	TEJAL LAXMAN MARNE	22 / 60
338.	Nikam Ruchita Ravindra	26 / 60
339.	Kiran. Jangid	31 / 60
340.	Saraswati sadanand harage	24 / 60
341.	Khade shilpa ramdas	33 / 60
342.	Perane Shreya Bharat	28 / 60
343.	Sneha Shaji	13 / 60
344.	Kapadnis Mansi Sanjay	34 / 60
345.	Nilofar Raju Kachhi	29 / 60
346.	Nida kazi	19 / 60
347.	Priyanka suryakant Kakade	26 / 60
348.	Akash Kamble	20 / 60
349.	Jadhav sakshi devidas	29 / 60

Ring Theory Mock Test

SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad. Dist. Nashik.

* Required

1. Full Name *

2. Your College Name

Ring Theory

Total 60 question for one hr

3. Which of the following is ring without unity *

1 point

Mark only one oval.

$\langle \mathbb{Z}, +, \cdot \rangle$

$\langle 2\mathbb{Z}, +, \cdot \rangle$

$\langle \mathbb{R}, +, \cdot \rangle$

$\langle \mathbb{C}, +, \cdot \rangle$

4. Let R be a ring with unity $1 \neq 0$ an element u in R is a unit of R if it has

1 point

Mark only one oval.

additive inverse

multiplicative inverse

identity

zero element

5.

1 point

Unit elements in \mathbb{Z}_5 is

Mark only one oval.

 $\bar{3}, \bar{2}$

Option 1

 $\bar{1}, \bar{2}$

Option 2

 $\bar{1}, \bar{2}, \bar{3}, \bar{4}$

Option 3

 $\bar{2}, \bar{4}$

Option 4

6. If R is commutative ring with every nonzero element is unit then R must be 1 point

Mark only one oval.

Division ring

Field

Integral Domain

not field

7. Which of the following is not field

1 point

Mark only one oval.

 \mathbb{R}

Option 1

 \mathbb{C}

Option 2

 \mathbb{Q}

Option 3

 \mathbb{Z}

Option 4

8. Which of the following is correct

1 point

Mark only one oval.

Every Integral domain is field

Every field is Integral domain

Every division ring is field

Every ring is Integral domain

9. The ring $\langle R, +, \cdot \rangle$ is an Integral domain when R is

1 point

Mark only one oval.

$$M_2(\mathbb{Z})$$

Option 1

$$\mathbb{Z}_7$$

Option 2

$$\mathbb{Z}_6$$

Option 3

$$\mathbb{Z}_4$$

Option 4

10. A polynomial ring $\mathbb{Z}[x]$ is

1 point

Mark only one oval.

- a field
- a principal ideal domain
- UFD
- ED

11.

1 point

Unit elements in the ring \mathbb{Z}_4 is

Mark only one oval.

 $\bar{3}$

Option 1

 $\bar{2}$

Option 2

 $\bar{0}$

Option 3

no unit element

12.

1 point

Find order of the matrix ring $M_2(\mathbb{Z}_2)$

Mark only one oval.

2

4

3

0

13.

1 point

Find the unity for the set $\{\bar{0}, \bar{2}, \bar{4}\}$ under the addition and multiplication modulo 6 has a unity

Mark only one oval.

 $\bar{2}$

Option 1

 $\bar{4}$

Option 2

 $\bar{0}$

Option 3

 $\{\bar{0}, \bar{2}\}$

Option 4

14.

1 point

How many elements are there in the field $\mathbb{Z}_3[i] = \{a + bi : a, b \in \mathbb{Z}_3\}$

Mark only one oval.

3

9

12

27

15. Which of the following is Integral domain

1 point

Mark only one oval.

$$M_2(\mathbb{Z})$$

Option 1

$$M_2(2\mathbb{Z})$$

Option 2

$$\mathbb{Z}_6$$

Option 3

$$\mathbb{Z}$$

Option 4

16.

1 point

Which of the following is correct for $\frac{2\mathbb{Z}}{6\mathbb{Z}} = ?$

Mark only one oval.

$$\{0 + 2\mathbb{Z}, 4 + 2\mathbb{Z}, 6 + 2\mathbb{Z}\}$$

Option 1

$$\{0 + 6\mathbb{Z}, 2 + 6\mathbb{Z}, 4 + 6\mathbb{Z}\}$$

Option 2

$$\{0 + 6\mathbb{Z}, 1 + 6\mathbb{Z}, 2 + 6\mathbb{Z}\}$$

Option 3

$$\{0 + 2\mathbb{Z}, 1 + 2\mathbb{Z}, 2 + 2\mathbb{Z}\}$$

Option 4

17. R/A is an integral domain if and only if A is

1 point

Mark only one oval.

Ideal

Prime ideal

Field

Zero

18.

1 point

All Idempotent elements in ring \mathbb{Z}_{10} is (a is idempotent if $a^2=a$)

Mark only one oval.

$$\{\bar{5}\}$$

Option 1

$$\{\bar{5}, \bar{6}\}$$

Option 2

$$\{\bar{1}, \bar{5}, \bar{6}\}$$

Option 3

$$\{\bar{2}, \bar{4}\}$$

Option 4

19.

1 point

The polynomial x^2+1 is reducible over
Mark only one oval.

 \mathbb{Z} Option 1
 \mathbb{Z}_5 Option 2
 \mathbb{Z}_3 Option 3
 \mathbb{Z}_4 Option 4

20. Which of the following polynomial is irreducible over \mathbb{Q} by using Eisenstein's criterion 1 point

Mark only one oval.

$$3x^2 + 15x^4 - 20x^3 + 10x + 20$$

Option 1

$$3x^2 + 15x^2 - 20x^3 + 10x + 25$$

Option 2

$$3x^2 + 15x^2 - 20x^3 + 10x + 20$$

Option 3

$$3x^2 + 15x^4 - 21x^3 + 10x + 20$$

Option 4

21. Which of the following is field

1 point

Mark only one oval.

$$\frac{\mathbb{Z}_3[x]}{\langle x^2+1 \rangle}$$

Option 1

$$\frac{\mathbb{Z}_3[x]}{\langle x^2-1 \rangle}$$

Option 2

$$\frac{\mathbb{Z}_3[x]}{\langle x^2+2 \rangle}$$

Option 3

$$\frac{\mathbb{Z}_3[x]}{\langle x^2 \rangle}$$

Option 4

22. Which of the following is correct

1 point

Mark only one oval.

- Every PID is UFD
- Every UFD is PID
- Every PID is field
- Every PID is ED

23. Which of the following is not correct

1 point

Mark only one oval.

- Every ED is UFD
- Every ED is UFD
- Every ED is field
- Every ED is ID

24. An element 'a' of a ring R is nilpotent if for some $n \in \mathbb{Z}^+$

1 point

Mark only one oval.

$$a^n = a$$

Option 1

$$a^n = 0$$

Option 2

$$a^2 = a$$

Option 3

$$a \neq 0$$

Option 4

25. Which of the following is field ?

1 point

Mark only one oval.

 \mathbb{Z}_4

Option 1

 \mathbb{Z}_6

Option 2

 \mathbb{Z}_7

Option 3

 \mathbb{Z}_{2020}

Option 4

26. Characteristic of an integral domain D must be

1 point

Mark only one oval.

- either 0 or prime
- composite number
- any finite number
- infinite number

27.

1 point

Which of the following ring is isomorphic to $\mathbb{Z}_{15} \cong ?$

Mark only one oval.

$$\mathbb{Z}_3 \times \mathbb{Z}_3$$

Option 1

$$\mathbb{Z}_3 \times \mathbb{Z}_5$$

Option 2

$$\mathbb{Z}_5 \times \mathbb{Z}_5$$

Option 3

$$\mathbb{Z}_2 \times \mathbb{Z}_3 \times \mathbb{Z}_5$$

Option 4

28. Under ring homomorphism idempotent element must map to

1 point

Mark only one oval.

- zero element
- idempotent element
- nilpotent element
- to itself

29. The congruence $ax \equiv b \pmod{m}$ has solution if and only if..... (where d is gcd of a and m) 1 point

Mark only one oval.

- d divides a
- d divides b
- d divides m
- d divides x

30. $\phi(pq) = ?$ 1 point

Mark only one oval.

- $(p-1)(q-1)$
- pq
- $p^2 q^2$
- $(p+1)(q+1)$

31. 1 point

Compute for the evaluation homomorphism $\phi_2(x^2+3)$

Mark only one oval.

- 7
- 3
- 5
- 6

32.

1 point

The polynomial $25x^5 - 9x^4 - 3x^2 - 12$ is irreducible over \mathbb{Q} by Eisenstein criterion if $p=$

Mark only one oval.

 2 5 3 7

33. Let $\phi : R \rightarrow R'$ be a ring homomorphism and let N be an ideal of R . Then

1 point

Mark only one oval.

 $\phi[N]$ is an ideal of R' $\phi[N]$ is an ideal of $\phi[R]$ $\phi[N]$ is an ideal of R $\phi[N]$ is an ideal of $\phi^{-1}[R]$

34. Which of the following statement is correct?

1 point

Mark only one oval.

 intersection of ideals of a ring is again an ideal of R every subring of every ring is an ideal of the ring every ring is commutative ring every ring have unity

35. Find the remainder of $36!$ modulo 37

1 point

Mark only one oval.

- 1
- 0
- 1
- $35!$

36. All units in $\mathbb{Z}[x]$ is

1 point

Mark only one oval.

- 1
- 1 and -1
- 1,-1,0
- z

37. If R is a ring with unity and N is an ideal of R containing a unit element, then

1 point

Mark only one oval.

- $N \leq R$
- $R \leq N$
- $N=R$
- $N \neq R$

38. Which of the following is correct ?

1 point

Mark only one oval.

- every maximal ideal of a commutative ring with unity is prime ideal
- every prime ideal is maximal ideal
- every ideal of any ring is maximal ideal
- every ideal of any ring is prime ideal

39.

1 point

Which of the following are ideals of \mathbb{Z}_6 , $N_1 = \{0\}$, $N_2 = \{0,3\}$, $N_3 = \{0,2,3\}$, $N_4 = \mathbb{Z}_6$

Mark only one oval.

N_1 and N_4

Option 1

N_2 and N_3

Option 2

N_1, N_2, N_3 and N_4

Option 3

N_1, N_3 , and N_4

Option 4

40.

1 point

Let \mathbb{Z}_8 have following ideals

$N_1 = \{0\}$, $N_2 = \{0, 4\}$, $N_3 = \{0, 2, 4, 6\}$, $N_4 = \mathbb{Z}_8$. Which ideal is maximal ideal?

Mark only one oval.

 N_4 Option 1 N_3 Option 2 N_2 Option 3 N_1 Option 4

41.

1 point

Find all prime ideals of \mathbb{Z}_6 if \mathbb{Z}_6 have ideals $N_1 = \{0\}$, $N_2 = \{0, 3\}$, $N_3 = \{0, 2, 3\}$, and $N_4 = \mathbb{Z}_6$

Mark only one oval.

N_2

Option 1

N_3

Option 2

N_2 and N_3

Option 3

N_1, N_2, N_3 and N_4

Option 4

42.

1 point

Find the value of $c \in \mathbb{Z}_3$ such that $\frac{\mathbb{Z}_3[x]}{\langle x^2+c \rangle}$ is a field

Mark only one oval.

$c=0$

$c=1$

$c=2$

$c \neq 1$

43.

1 point

\mathbb{Z}_p is a field if value of p is

Mark only one oval.

- p is prime number
- p is a composite number
- p must be a square number
- $p = 0$

44. Two elements $a, b \in R$ are associates in R if $a = bu$ where u is

1 point

Mark only one oval.

- $u = 1$
- u is unit element in R
- $u = 0$
- u is any element in R

45. Which of the following is incorrect?

1 point

Mark only one oval.

- If D is UFD, then $D[x]$ is UFD
- If D is PID, then $D[x]$ is PID
- If D is I.D. , then $D[x]$ is I.D.
- If D is E.D. , then $D[x]$ is E.D

46. Which of the following is primitive polynomial?

1 point

Mark only one oval.

$$2x^3 + 3x - 4$$

Option 1

$$3x^2 + 6x + 9$$

Option 2

$$2x^3 + 4x - 10$$

Option 3

$$4x^3 + 16x + 10$$

Option 4

47. Which of the following is incorrect?

1 point

Mark only one oval.

If F is field, then $F[x]$ is ED

every ED is PID

every ED is UFD

every UFD is ED

48. A multiplicative norm N and D must satisfy following condition

1 point

Mark only one oval.

$N(a\beta) = N(a) + N(\beta)$

$N(a\beta) = N(a)N(\beta)$

$N(a\beta) = N(a) \div N(\beta)$

$N(a\beta) = N(a) - N(\beta)$

49. Given an example of a ring which is integral domain but NOT UFD

1 point

Mark only one oval.

\mathbb{R}

Option 1

\mathbb{Q}

Option 2

$\mathbb{Z}[\sqrt{-5}]$

Option 3

$\mathbb{Z}[i]$

Option 4

50.

1 point

In a ring \mathbb{Z}_6 which of the following is zero divisor

Mark only one oval.

3

4

0

5

51. If I is maximal ideal in R then R/I is a

1 point

Mark only one oval.

Integral Domain

Field

Not Field

Infinite

52. Let I is a prime ideal of R and $ab \in I$ then

1 point

Mark only one oval.

a) $a \in I$ and $b \in I$

b) $a \in I$ and $b \notin I$

c) $a \notin I$ and $b \in I$

d) both (b) and (c)

53. Which of the following ring is ring but not an integral domain

1 point

Mark only one oval.

 \mathbb{Z}_5

Option 1

 \mathbb{Z}_7

Option 2

 \mathbb{Z}_6

Option 3

 \mathbb{Z}_{11}

Option 4

54.

1 point

How many prime ideals of ring \mathbb{Z}_6

Mark only one oval.

2

1

4

0

55. Which of the following are not field

1 point

Mark only one oval.

$$\frac{\mathbb{Z}}{5\mathbb{Z}}$$

Option 1

$$\frac{\mathbb{Z}}{4\mathbb{Z}}$$

Option 2

$$\frac{\mathbb{Z}}{3\mathbb{Z}}$$

Option 3

$$\frac{\mathbb{Z}}{2\mathbb{Z}}$$

Option 4

56. If a is a unit element in a ring R , then a is

1 point

Mark only one oval.

- a zero divisor
- a zero element
- an identity element
- a invertible element

57. Every Boolean ring is

1 point

Mark only one oval.

- An integral domain
- A field
- A commutative ring
- A division ring

58.

1 point

Value of $(\bar{7})^2 - \bar{7}$ in $\langle \mathbb{Z}_8, +_8, \times_8 \rangle$ is

Mark only one oval.

- 6^-
- 4^-
- 2^-
- 0^-

59.

1 point

$(\mathbb{Z}_{43}, +_{43}, \times_{43})$ is

Mark only one oval.

- both field and integral domain
- integral domain but not field
- a field but not integral domain
- neither field nor integral domain

60.

1 point

Number of zero divisor in $\langle \mathbb{Z}_6, +_6, \times_6 \rangle$ are

Mark only one oval.

0

1

2

3

61. $R = \{\pm 1, \pm 2, \pm 3, \dots\}$ is not ring under usual addition and multiplication of integers, because

1 point

Mark only one oval.

R is not closed under multiplication

R is not closed under addition

R does not satisfy associativity w.r.t. addition

R does not satisfy associativity w.r.t. multiplication

62. Which of the following is example of finite noncommutative ring

1 point

Mark only one oval.

$$M_2[\mathbb{Z}]$$

Option 1

$$M_n[\mathbb{Z}]$$

Option 2

$$M_2[\mathbb{Z}_2]$$

Option 3

$$\mathbb{Z}[i]$$

Option 4

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Score	Full Name	
21 / 60	Raj Gupta	
20 / 60	Kakulate tejas bhausahab	
17 / 60	Kamala suthar	
18 / 60	Manoj Kore	
28 / 60	Pratik Raju Rawal	
15 / 60	Pansare Tushar Yashwant	
17 / 60	Mock Test	
32 / 60	Sairam Patro	
23 / 60	Pranali Rajendra Suryawanshi	
25 / 60	Pratik Vilas Borkar	
53 / 60	Shubham Sambhaji Ghodake	
19 / 60	Priya pangare	
29 / 60	Aditya Bhide	
27 / 60	Nikita Uttamrao Chaudhari	
11 / 60	Patilba khade	
32 / 60	Galave Pramod Laxman	
18 / 60	KADAM Harshada Shivaji	
37 / 60	Pallavi Kisan Nikam	
20 / 60	Neha Acharya	
52 / 60	Safoora Ansari	
19 / 60	Abhijit G Anchewad	
26 / 60	Pooja Anna Ghadge	
17 / 60	Santoshi sangram hippale	
17 / 60	Sonali muralidhar chormale	
16 / 60	Walunj Pratiksha Rajendra	
25 / 60	Pawan ghanshyam gupta	
28 / 60	Amrut Shivaji Buva	
24 / 60	Pawar pratiksha kundlik	
26 / 60	Karpe anuja dipak	
19 / 60	Aqueel Ahmed Nazeer Ahmed	
17 / 60	Manishathete	

16 / 60	Muskan zainuddin shaikh	
20 / 60	Snehal salunkhe	
48 / 60	Punam gawali	
30 / 60	Rashee Soni	
42 / 60	Shadab ahmed	
50 / 60	Prachalit Parate	
45 / 60	Dimpal Hiralal Kaurani	
35 / 60	Sinalkar pooja dilip	
37 / 60	Nivida Naren Joshi	
22 / 60	Solankar Prajakta Rajendra	
27 / 60	Khushi Manish Racca	
47 / 60	Ansari Hena Kausar Ansari Laeeque Ahmad .	
26 / 60	Suyash sunil kolhal	
23 / 60	Deore Vaishnavi Janardan	
37 / 60	Komal Shankar Madhawai	
20 / 60	Mohini Ratnakar chikhale	
23 / 60	Girija Sanjay Purohit	
28 / 60	Komal gupta	
46 / 60	Ankita Parakh	
16 / 60	komal Shridhar bhaware	
25 / 60	Kajal Jalindar Jadhav	
22 / 60	Saba Farid Kazi	
25 / 60	Ugale Snehal pandit	
18 / 60	Rushikesh Arvind Chaudhari	
14 / 60	Akshay Lokare	
30 / 60	Mansi shinde	
31 / 60	Kendre Mayhri Balajirao	
45 / 60	Abhay Jayarajan	
40 / 60	Latika Ramrao Gatkal	
20 / 60	Tejaswini Khairmar	
39 / 60	Ashwini Pandurang Gopale	

24 / 60	Vijay Anil Girme	
40 / 60	Rishabh Pandey	
23 / 60	Sonali Tanaji Shinde	
16 / 60	Pote Abhijeet Dnyandeo	
15 / 60	Jio	
17 / 60	Rushikesh Santosh Dhumane	
15 / 60	Rahul Dinesh Mahadik	
40 / 60	Shaikh Fatema Shamim	
22 / 60	Jadhav Prajwal Sanjay	
20 / 60	Suryawanshi Swati Shalikrao	
10 / 60	Pooja Vishnu Kandekar	
51 / 60	Sneha Nitin Ghodake	
33 / 60	Ganesh G	
31 / 60	Shaikh Saniya Papa	
38 / 60	Mohini Sunil Kolhe	
36 / 60	Maheshwari sarjerao jadhav	
28 / 60	Shruti satish bathe	
31 / 60	Thorat sonali Prakash	
38 / 60	Suthar Dineshkumar Sawairam	
43 / 60	Renuka Ahire	
26 / 60	Swapnil Dattatrey Uttare	
34 / 60	Vasudha Sanjay Jadhav	
38 / 60	Pathade Pooja Chandrakant	
36 / 60	Prerna Praveen Jain	
25 / 60	Akshada Ganesh Kadu	
49 / 60	Srushti Shankar Ghadage	
35 / 60	Mrunali Rohidas Kushare	
32 / 60	Arti Ashok Dalvi	
46 / 60	Bhosale abhijeet sunil	
11 / 60	Pankaj Bharat Tajane	
24 / 60	Tekale rani	

22 / 60	Mrunalini Pandit Shirole	
40 / 60	Pallavi Suresh Rahane	
41 / 60	Faizana Kausar Ashfaque Ahmed	
19 / 60	Supriya Shivaji Mogare	
42 / 60	Samrin adil pinjari	
34 / 60	Moin pooja	
23 / 60	Simran Raju Shaikh	
23 / 60	Seema Rajendra More	
35 / 60	Swati Sutar	
26 / 60	Pooja pappy dede	
30 / 60	Rajgire Sujata Dnyaneshwar	
18 / 60	Faiza Farhat Naseruddin	
27 / 60	Monika pralhad sakunde	
25 / 60	Sandhya vinayak jadhav	
34 / 60	Sandhya Kumari	
31 / 60	Mulani Chandbi Rajjak	
43 / 60	Kawale Parmeshwari kailas	
45 / 60	Vidhya S Nair	
25 / 60	Prachi Gokul Nannavare	
15 / 60	Ashish Yadav	
17 / 60	Snehal memane	
21 / 60	Maimom Mahesh Singh	
36 / 60	Komal Dhondibhau gopale	
27 / 60	Ranjith Nair	
20 / 60	Bachhav Ashwini Bhausahab	
29 / 60	Sandhya vijay Tambe	
35 / 60	Safaljeet Pawar	
35 / 60	Swapna vilas patil	
35 / 60	Attar samrin shafique	
31 / 60	YASHASHREE BALWADKAR	
37 / 60	Vinaya Tanaji Kadam	

50 / 60	Riya Daniyal Thorat.	
21 / 60	Vrushali Darekar	
13 / 60	Neha pravin aher	
40 / 60	Chaudhari Gaurav Rajendra	
40 / 60	Lakesh patel	
32 / 60	Rutuja Vijay Patil	
34 / 60	suvarna somvanshi	
39 / 60	Ashwini Vijay Bhavar	
37 / 60	PATEL VISHVA YOGESHBHAI	
37 / 60	Narute Dipali Vasant	
44 / 60	Anchal Agarwal	
44 / 60	Sayali Nayan Bora	
44 / 60	Aqsa sayyed	
4 / 60	Shivani kishor kute	
37 / 60	Dhakane Komal Rajendra	
33 / 60	Kumawat Kalpana Nemichand	
14 / 60	Bharat Bhausahab Dake	
28 / 60	Nikhil Dnyaneshwar khandalkar	
33 / 60	Khokarale Akshada Ravindra	
35 / 60	Kabadi Harshada Balasaheb	
31 / 60	Kadam Shital sanjay	
29 / 60	Salunke Amruta raousaheb.	
28 / 60	Neha Kumari	
34 / 60	Sapkal Prajakta Dattatraya	
21 / 60	Priyali Sandeep Gaikwad	
36 / 60	Vidya abasaheb thombare	
29 / 60	Sneha vijay yadav	
23 / 60	Ansari Nabeela Kausar Mohammed Irfan	
37 / 60	Chinmay Dasarwar	
34 / 60	Kolpe Puja Dadasaheb	
29 / 60	Swagat Sahebrao Garud	

25 / 60	Pendhare komal sainath	
25 / 60	Vishal Dilip Bombe	
40 / 60	Swapnali shinde	
49 / 60	Radha Vyankatrao Panchal	
16 / 60	Shweta bhavsar	
44 / 60	Kiran. Khati Jangid	
29 / 60	Saniya Mulani	
49 / 60	Tejaswini Ajinath Kakade	
24 / 60	Dipak Prakash Patil	
22 / 60	Panthini Patel	
26 / 60	Katariya ankita nareshbhai	
43 / 60	Shraddha Doijode	
25 / 60	Pritam Sunil Chaudhari	
28 / 60	patil mohini	
11 / 60	Dhanashri sanjay more	
21 / 60	Shital Pawar	
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14 / 60	Pratiksha Sambhaji Thite	
38 / 60	Priyanka Hanumant Gawali	
40 / 60	Anjum Sayyed	
30 / 60	Pratiksha jotiram jagtap	
24 / 60	Vaishnavi Pravin Patil	
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26 / 60	Shaikh Arshiya Hashim	
20 / 60	Aarti Dhruvbal Tikhe	
39 / 60	Pratiksha dilip rukari	
30 / 60	Manaswi Ashok Chavan	

35 / 60	Rupali Dnyaneshwar Ghumakar	
27 / 60	Nagare Ashwini bhagwan	
19 / 60	Momin Aiman Naaz Tanveer Ahmed	
26 / 60	Gaikwad Kalyani Dinkar	
28 / 60	Sonali dnyandeo Gaikwad	
13 / 60	shital satish solanke	
50 / 60	Shubhangi Sanjay Pardeshi	
21 / 60	Tambe Sanket Tukaram	
21 / 60	Shinde Kalyani Sanjay	
22 / 60	Atiya Fatema Abdul Qahar	
32 / 60	Munesh Pramod Jagtap	
11 / 60	Rutuja Ramesh Dhikale	
30 / 60	Pathade Yogita Popat	
42 / 60	Deshmukh Pratiksha Prakash	
29 / 60	Shaikh Tuba yasin	
29 / 60	Shirole jyotsna ashok	
15 / 60	Dnyaneshwar Gorakhnath Dhongade	
31 / 60	Nitish Mithilesh Sharma	
54 / 60	Bhagyashri Ramdas desale	
47 / 60	singh Pratikshakumari Rajeevkumar	
40 / 60	Tamboli Ishrat Viqar	
20 / 60	Nikam Ruchita Ravindra	
47 / 60	Sayali Sudam Bhor	
17 / 60	Mankar Sonali Rajaram	
37 / 60	Momin Faqeeha Khatoon Jamal Nasir	
23 / 60	Shital Sarjerao Sonawane	
25 / 60	Gangurde Neha sudhakar	
42 / 60	Snehal shankar more	
29 / 60	bhushan shamrao kadgaye	
31 / 60	Yashshree ravindra raut	
34 / 60	Bhushan Jadhav	

34 / 60	Sonali Duryodhan Mane	
22 / 60	Megha Arun Gore	
54 / 60	Neha Sharma	
45 / 60	Dhadiwal Tejal Santosh	
29 / 60	Rutuja kalhapure	
36 / 60	Ankita balasaheb vanarse	
36 / 60	soumya kolekar	
31 / 60	Sakshi Rohidas Devdikar	
31 / 60	Kale Mayuri Bapurao	
27 / 60	Gracy Sathe	
36 / 60	Nikita jotiba pawar	
43 / 60	Shaikh Rukkaiya Rajmohamad	
37 / 60	Dabbu oza	
43 / 60	Rutuja Sanjay suryavanshi	
28 / 60	Ram Pandurang Vinchu	
31 / 60	Khade Shilpa ramdas	
25 / 60	Radheshyam kumar	
23 / 60	Neha pramod Patil	
26 / 60	Saraswati Sadanand harage	
34 / 60	Shirsath Ashwini Malhari	
39 / 60	Pooja Gorakh Mali	
39 / 60	Fatima Irshad khan	
36 / 60	Pratham Yogesh Tulshyan	
23 / 60	Sayali Sanjay Malpure	
42 / 60	Pushpa Latha Boddu	
25 / 60	Prajakta Pholane	
41 / 60	Prerana	
24 / 60	Jadhav Pratibha Vilas	
33 / 60	Prajakta pandurang kshirsagar	
27 / 60	muley prajakta milind	
42 / 60	Mane Vishal Abhimanyu	

21 / 60	Taniya Mehta	
28 / 60	Roshani Dineshsing Bagul	
26 / 60	PAWAR DIPALI JAGANNATH	
31 / 60	Bhuvaneshwari Nagesh Vatte	
39 / 60	Pooja Sunil Phalke	
38 / 60	Sachin Maroti Ramteke	
36 / 60	Hire kajal Ramakant	
29 / 60	Madhuri Tope	
23 / 60	Bagwan Tasneem Liyakat	
41 / 60	Khushal Jain	
40 / 60	Akshada Pathare	
36 / 60	Shraddha Sanjay chavan	
15 / 60	Khairnar Sayali Vishwanath	
16 / 60	Ahire Ujwala Sudhakar	
29 / 60	Nilesh Bhandari	
27 / 60	Tejaswini Devidas Pawar	
42 / 60	Phalke Arati Vilas	
36 / 60	Saniya Shaikh	
25 / 60	Tejashree mandlik	
22 / 60	Geeta Bhujang Pawar	
32 / 60	Kadam Anuja Bhaskar	
28 / 60	Kiran changle bhagat	
29 / 60	Jayprakash Dube	
28 / 60	Manoj Bhandwalkar	
30 / 60	SADASHIV PRABHATSING PADVI	
35 / 60	Patil Mangesh Dhananjayrao	
39 / 60	Nikita dilip dhaigude	
28 / 60	Anup ramesh bhagat	
32 / 60	Aarti Sanjay Gade	
40 / 60	Kale Sumant	
29 / 60	Parjane Nikita Babasaheb	

37 / 60	Lata Baghel	
43 / 60	PRADYUMNA PRAVINKUMAR BADAVE	
32 / 60	Aniket Nagarkar	
16 / 60	Shaikh Swaleha Maqbool	
27 / 60	Mandlik Vikas Shahaji	
26 / 60	Nida Ayyub Kazi	
28 / 60	Neelam Brijesh kushwaha	
20 / 60	Amar	
22 / 60	Akash chandrakant kamble	
40 / 60	Vinay shrawan jadhav	
31 / 60	Raktate sayali madhukar	
23 / 60	Khaire prajakta sandip.	
44 / 60	Thorat Sayali Ashok	
40 / 60	paswan santoshkumar shri suresh	
28 / 60	Kolape Pooja Nagnath	
40 / 60	Kapadnis Mansi Sanjay	
29 / 60	Vaishnavi nitin Tapkir	
40 / 60	Nilofar Raju Kachhi	
37 / 60	Akash Pawar	
31 / 60	Kapadnis yojana	
21 / 60	KHAN SHAMA MOHAMMED YASIN	
34 / 60	Shaikh Sauleha Arif	
20 / 60	Jadhav jagruti Raosaheb	
46 / 60	Jidnyasa Shripat Pachkude	
31 / 60	More Sonali Ambadas	
22 / 60	Priyanka Suresh kolape	
37 / 60	Roham Dipali Vijay.	
25 / 60	Sonawane Shubham Chandrakant	
29 / 60	Mansi arun jadhav	
41 / 60	Pratiksha Sambhaji Autade	
27 / 60	Rote Renuka Thakchand	

27 / 60	Adhav jayshri shankar	
37 / 60	Shradha gitaram kale	
20 / 60	Ansari munazza saher mohammed sajid	
39 / 60	suryavanshi madhuri yogesh	
23 / 60	Shaeera Sabah Aneesurrahman	
42 / 60	Gaikwad jayashree manik	
41 / 60	Chaitrali latake	
21 / 60	Ahire komal Balasaheb	
41 / 60	salunkhe Dipti Rajendra	
28 / 60	Akshay Bradwal	
39 / 60	Taskeen Tamboli	
22 / 60	Pratik Deshpande	
44 / 60	Muskan anis tamboli	

Real Analysis-II Mock Test

This test is organized by Department of Mathematics SNJB's KKHA arts SMGL Commerce and SPHJ Science College, Chandwad. The aim of this test is to boost students for MCQ examination in academic as well as competitive examinations.

* Required

1. Full Name *

2. Your College Name *

Real Analysis-II

Total 50 questions for One hour

3. Which of the following is incorrect ?

1 point

Mark only one oval.

- Every Countable subset of \mathbb{R} has measure zero
- Set of all rational number \mathbb{Q} is of measure zero
- Singleton set has measure zero
- Set of irrational number is of measure zero

4. Which of the following is not of measure zero ?

1 point

Mark only one oval.

- Q
- $\{x\}$
- (a,b) , $a < b$
- $\{1,2,3\}$

5. The length of interval $[0,1]$ is

1 point

Mark only one oval.

- 0
- 1
- 2
- Does not exist

6. I] Every countable subset of \mathbb{R} has measure zero. II] Every Set has measure zero

1 point

Mark only one oval.

- I is true
- II is true
- Both are true
- Both are false

7.

1 point

Let $f(x) = x$ ($0 \leq x \leq 1$) Let σ be the subdivision $\{0, \frac{1}{3}, \frac{2}{3}, 1\}$ of $[0, 1]$.

Compute $U[f; \sigma]$

Mark only one oval.

1/3

2/3

1

3/2

8.

1 point

Let $f(x) = x$ ($0 \leq x \leq 1$) Let σ be the subdivision $\{0, \frac{1}{3}, \frac{2}{3}, 1\}$ of $[0, 1]$.

Compute $L[f; \sigma]$

Mark only one oval.

1/3

2/3

1

0

9.

1 point

$$\text{Let } g(x) = \begin{cases} 0 & x \text{ is irrational} \\ 1 & x \text{ is rational} \end{cases} \quad x \in [0,1]$$

Then which is correct statement about g .

Mark only one oval.

- g is continuous on \mathbb{R}
- g is continuous on $[0,1]$
- g is Riemann integrable
- g is not continuous on $[0,1]$

10.

1 point

Let σ_n be the subdivision $\left\{0, \frac{1}{n}, \frac{2}{n}, \dots, \frac{n}{n}\right\}$ of $[0,1]$

Compute $\lim_{n \rightarrow \infty} U[f; \sigma_n]$ for $f(x) = x$ ($0 \leq x \leq 1$)

Mark only one oval.

- 0
- 1
- 1/2
- 2/3

11.

1 point

$$\lim_{n \rightarrow \infty} \frac{1}{n} \left[\left(\frac{1}{n} \right)^2 + \left(\frac{2}{n} \right)^2 + \dots + \left(\frac{n}{n} \right)^2 \right]$$

Mark only one oval.

 0 1 1/2 1/3

12.

1 point

$$\lim_{n \rightarrow \infty} \frac{1}{n} \left(\sin \frac{\pi}{n} + \sin \frac{2\pi}{n} + \dots + \sin \frac{n\pi}{n} \right)$$

Mark only one oval.

$$\frac{1}{\pi}$$

Option 1

$$\frac{2}{\pi}$$

2

$$\pi$$

3

$$\frac{\pi}{2}$$

4

13.

1 point

$f(x) = \sin(1/x)$, $0 < x \leq 1$, $f(0) = 7$ then

Mark only one oval.

- f is continuous every where
- f is not of measure zero
- f is not Riemann integrable on $[0,1]$
- f is Riemann integrable on $[0,1]$

14. Which of the following is incorrect?

1 point

Mark only one oval.

- Every constant function is Riemann integrable on $[a,b]$
- Every continuous function on $[a,b]$ is Riemann integrable
- Every bounded function on $[a,b]$ is Riemann integrable
- The characteristic function on finite set is Riemann integrable

15.

1 point

$$\lim_{n \rightarrow \infty} \left[\frac{1}{n+1} + \frac{1}{n+2} + \dots + \frac{1}{n+n} \right]$$

Mark only one oval.

- 1
- $\log 2$
- $\log 3$
- $\log 4$

16.

1 point

. If $f \in R[a,b]$ and if $f(x) = g(x)$ except for a countable number of points $x \in [a,b]$, then

$$g \in R[a,b]$$

Mark only one oval.

True

False

17.

1 point

If $f \in R[a,b]$ and if $f(x) = g(x)$ except for a finite number of points $x \in [a,b]$, then

$$g \in R[a,b]$$

Mark only one oval.

True

False

18.

1 point

$f(x) = x^2$ if x is rational and $f(x) = 0$ if x is irrational, is Riemann integrable on $[0,1]$

Mark only one oval.

True

False

19.

1 point

If $f \in R[a,b]$ and $a < c < b$, λ is any real number then which is never true?

Mark only one oval.

- f is Riemann integrable on $[a,c]$
- f is Riemann integrable on $[c,b]$
- f is not Riemann integrable on $[c,b]$
- Riemann integration exist

20.

1 point

Let $f(x) = [x], x \in [0,3]$. prove that f is integrable on $[0,3]$, Evaluate $\int_0^3 f$

Mark only one oval.

- 0
- 1
- 2
- 3

21.

1 point

If $F'(x) = 0$ for every x in the closed bounded interval $[a,b]$ then

Mark only one oval.

- f is constant on $[a,b]$
- $f(x) = c$
- f is Riemann integrable on $[a,b]$
- f is not continuous on $[a,b]$

22.

1 point

If $f(x) = \int_0^x \sqrt{t+t^6} dt$ ($x > 0$) what is value of $f'(2)$

Mark only one oval.

4.70

5.70

8.06

8.12

23.

1 point

If f is continuous on $[a, b]$ if $f(x) > 0$ ($a \leq x \leq b$) and if

$$F(x) = \int_a^x f(t) dt \quad (a \leq x \leq b)$$

Mark only one oval.

f is increasing on $[a, b]$

f is strictly increasing on $[a, b]$

f is decreasing on $[a, b]$

f is strictly decreasing on $[a, b]$

24.

1 point

Which of the following improper integral of first kind ?

$$(i) \int_1^{\infty} \frac{dx}{x^2} \quad (ii) \int_0^{\infty} e^{-x} dx \quad (iii) \int_1^{\infty} \frac{1}{\sqrt{x}} dx \quad (iv) \int_1^{\infty} \sin x dx$$

Mark only one oval.

- 1 and 3
- 2 and 3
- only 4
- All are of first kind

25.

1 point

$$\int_1^{\infty} \frac{1}{\sqrt{x}}$$

the value of integral is

Mark only one oval.

- 2
- 1
- 4
- Does not exist

26.

1 point

The integral $\int_0^2 \frac{x}{1-x} dx$ is

Mark only one oval.

- Proper integral
- first kind
- Second kind
- Third kind

27.

1 point

The integral $\int_0^{\infty} \frac{1}{x^2 + x^{1/2}} dx$

Mark only one oval.

- proper integral
- First kind
- Second kind
- Third kind

28.

1 point

The value of integral $\int_{-\infty}^0 e^x dx$ is

Mark only one oval.

- 0
- 1
- 2
- 3

29.

1 point

Which of the following is true about the integral $\int_1^{\infty} \sin x \, dx$?

Mark only one oval.

- proper integral
- second kind
- Third kind
- It is continuous on on given interval

30.

1 point

The integral $\int_1^{\infty} \frac{1}{x^2} \, dx$ converges to

Mark only one oval.

- 0
- 1
- 2
- 3

31.

1 point

The $\int_1^{\infty} \frac{1}{x^p} \, dx$ for $x > a > 0$ converges if

Mark only one oval.

- $p > 1$
- p less equal 1
- p greater equal 1
- $p < 1$

32.

1 point

Which is true for the integral $\int_0^1 \frac{dx}{x^2(1+x^2)}$?

Mark only one oval.

- converges to 1
- 1 is point of discontinuity
- 0 is point of infinite discontinuity
- It has no discontinuity

33.

1 point

Which of the following is correct for the integrals i) $\int_1^{\infty} \ln x \, dx$ ii) $\int_1^2 \frac{1}{x \ln x} \, dx$?

Mark only one oval.

- Both are convergent
- i) is convergent and ii) is divergent
- ii) is convergent and i) divergent
- Both are divergent

34.

1 point

The integrals $\int_0^1 \frac{dx}{\sqrt{1-x^3}}$ is

Mark only one oval.

- Divergent
- The integrand is bounded above
- The integrand is bounded below
- The integrand is unbounded

35.

1 point

The integral $\int_0^1 \frac{\sin(1/x)}{\sqrt{x}} dx$ is

Mark only one oval.

- Divergent
- Converges conditionally
- Converges Absolutely
- Integrand changes sign

36.

1 point

The improper integral $\int_a^b \frac{dx}{(x-a)^p}$ converges if

Mark only one oval.

- $p > 1$
- p greater equal 1
- p less equal 1
- $p < 1$

37.

1 point

The Cauchy's Principal value of $\int_{-\infty}^{\infty} x^3 dx$

Mark only one oval.

- 0
- 1
- 2
- Does not exist

38.

1 point

The value of integral $\int_{-1}^0 e^{-x} dx$ is

Mark only one oval.

- 0
- 1
- 2
- Does not exist

39.

1 point

The Cauchy Principal value of $\int_{-1}^1 \frac{1}{|x|} dx$

Mark only one oval.

- 0
- 1
- 2
- Does not exist

40.

1 point

The sequence of functions $f_n : (0,1) \rightarrow R$ is defined by $f_n(x) = \frac{n}{nx+1}$

Mark only one oval.

- f_n is uniformly convergent
- f_n is not bounded on $(0,1)$
- f is bounded
- pointwise limit is bounded

41.

1 point

Let $f_n(x) = \frac{x^{2n}}{1+x^{2n}}$, $x \in \mathbb{R}$ limit at $|x| > 1$ is

Mark only one oval.

- 0
- 1
- 1/2
- 2

42.

1 point

Let $f_n : [0,1] \rightarrow \mathbb{R}$ is defined by $f_n(x) = x^n$. Which of the following is incorrect ?

Mark only one oval.

- f_n continuous on $[0,1]$
- f is discontinuous at 1
- f_n is pointwise convergent
- f_n is uniformly convergent

43.

1 point

The sequence of the functions given by

$$f_n(x) = \frac{x}{n} \quad \forall x \in \mathbb{R}$$

Mark only one oval.

- Its limit is not 0
- convergence is uniform
- convergence is not uniform
- point wise limit is 1

44.

1 point

Let $f_n(x) = \frac{\sin nx}{n}$ $0 \leq x \leq 1$, what is least $N \in \mathbb{N}$ such that

$$|f_n(x) - 0| < \frac{1}{10} \quad (n \in \mathbb{N}) \text{ for all } x \in [0, 1] \text{ simultaneously?}$$

Mark only one oval.

 10 11 12 13

45.

1 point

The limit of sequence of functions $f_n(x) = \frac{x}{1+nx}$, $0 \leq x < \infty$

Mark only one oval.

 0 1 2 3

46.

1 point

The sequence of functions $f_n(x) = \frac{x^n}{n}$ $0 \leq x \leq 1$

Mark only one oval.

- Its limit is not 0
- Its pointwise convergent
- Its limit supremum is 1
- Its uniformly convergent

47.

1 point

The sequence of functions I] $f_n(x) = e^{-nx}$, $(0 < a \leq x \leq b)$

II] $f_n(x) = e^{-nx}$, $(0 \leq x \leq b)$

Mark only one oval.

- Both are uniformly convergent
- Both are not uniformly convergent
- I] is uniformly convergent II] is not Uniformly convergent
- II] is uniformly convergent I] is not uniformly convergent

48.

1 point

Sequence $\langle f_n(x) \rangle$ where

$$f_n(x) = \frac{nx}{1+n^2x^2} \quad \forall x \in \mathbb{R}$$

Mark only one oval.

- Convergence is uniform
- supremum is 1
- pointwise limit not exist
- convergence is not uniform

49.

1 point

The sequence $f_n(x) = \tan^{-1} nx$, $x \geq 0$ is

Mark only one oval.

- uniformly convergent in any interval, $[0, b]$, $b > 0$
- only pointwise convergent in $[a, b]$, $a > 0$
- uniformly convergent in any interval, $[a, b]$, $a > 0$
- only pointwise convergent in $[a, b]$, $a < 0$

50.

1 point

The series $\sum_{n=1}^{\infty} \frac{\cos nx}{n^2 + 1}$ is

Mark only one oval.

- Not bounded
- Sequence is point wise convergent
- Converges uniformly to f
- Does not converge uniformly to f

51.

1 point

The series $\sum \frac{1}{1+n^2x}$ is uniformly convergent on which interval ?

Mark only one oval.

$(0, \infty)$

\mathbb{R}

Option 1

Option 2

$[1, \infty)$

$(0 \leq x < \infty)$

Option 3

Option 4

52.

1 point

The series $\sum_{n=1}^{\infty} \frac{1}{n^2 + x^2}$ is uniformly convergent on which interval ?

Mark only one oval.

 $(0, \infty)$

Option 1

 R

Option 2

 $[1, \infty)$

Option 3

 $(0 \leq x < \infty)$

Option 4

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Google Forms

Score	Full Name
0 / 50	Adsure Shubham Anil
0 / 50	Kendre Mayuri Balajirao
15 / 50	TK
15 / 50	RESMI M MOMIN
13 / 50	Dipali Amol bagul
12 / 50	Dabbu
15 / 50	Karpe anuja dipak
14 / 50	Aj
11 / 50	Priyanka Hanumant Gawali
10 / 50	muley prajakta milind
22 / 50	Aditya Bhide
15 / 50	Abhijeet sunil bhosale
11 / 50	AK
13 / 50	Neha A
8 / 50	Shirole jyotsna ashok
11 / 50	Cbk
17 / 50	Suyash sunil kolhal
1 / 50	Mayuri Bhosle
20 / 50	Wagh pooja
7 / 50	sanket narsale
16 / 50	Manisha thete
17 / 50	Sajal mohammad
19 / 50	Real analysis 2
16 / 50	Rahul Dinesh Mahadik
17 / 50	Amrut Buva
18 / 50	Shital mandlik
12 / 50	pankaj Ashok kungar
18 / 50	Ashutosh tahlramani
30 / 50	Thombare Dipali Babasaheb
16 / 50	Pathak P
15 / 50	Akshara ...
25 / 50	BALWADKAR YASHASHREE

12 / 50	Jadhav meghana
24 / 50	Mrunali Rohidas Kushare
18 / 50	Mayur Malekar
19 / 50	Kavi
15 / 50	Pratik Vilas Borkar
15 / 50	Kokare ashwini haribhau
16 / 50	Pooja Anna Ghadge
9 / 50	Narute Dipali Vasant
27 / 50	Waghmode Madhavi Dattatraya
33 / 50	Maheshwari jadhav
21 / 50	Ashwini Pandurang Gopale
8 / 50	Sapkal Prajakta Dattatraya
15 / 50	Vaishnavi Pravin Patil
20 / 50	Arya
27 / 50	Gaikwad Jayashri Manik
21 / 50	Komal Madhawai
35 / 50	Shubham Sambhaji Ghodake
13 / 50	Sayali bhor
32 / 50	Sneha Yadav
17 / 50	Vaishali borse
29 / 50	Sairam Patro
22 / 50	Jadhav Prajwal Sanjay
33 / 50	Rutuja Panse
19 / 50	Nikita M
22 / 50	Pawar pratiksha kundlik
32 / 50	Kumawat Kalpana Nemichand
24 / 50	Dipali Suresh pandit
23 / 50	Maimom Mahesh Singh
10 / 50	Pathade Yogita Popat
23 / 50	Ankita balasaheb mate
16 / 50	Vaishnavi Janardan Deore
16 / 50	Soni Rashee Sandeep
20 / 50	Chavan mayuri dattatray

16 / 50	Bhagyashri ramdas Jadhav
19 / 50	Nikita dilip dhaigude
18 / 50	Nikhil Bhosale
22 / 50	Prachi Gokul Nannavare
10 / 50	Komal Ravindra Maghade
20 / 50	Hemant
6 / 50	Abhishek Devidas Bhise
29 / 50	Ugale Snehal pandit
10 / 50	Ansari munazza saher mohammed sajid
1 / 50	Lulu Shaikh
20 / 50	Vrushali Vasudeo Raut
18 / 50	SANDHYA
18 / 50	Pratik Raju Rawal
25 / 50	Srushti Shankar Ghadage
14 / 50	Faiza Farhat
26 / 50	Sayali Ashok Thorat
25 / 50	Khokarale Akshada Ravindra
25 / 50	Chavanke pallavi pandurang
15 / 50	Komal gupta
16 / 50	Rani s
24 / 50	Dhakane Komal Rajendra
14 / 50	Abhijit G Anchewad
21 / 50	Sandhya vinayak Jadhav
11 / 50	Vidya abasaheb thombare
16 / 50	Priyali sandeep Gaikwad
36 / 50	Shadab ahmed
15 / 50	komal Shridhar bhaware
13 / 50	Shiva
15 / 50	Badade Pallavi Bhagwan
25 / 50	Shubhangi bhagwan gujar
34 / 50	Dimpal Hiralal Kaurani
19 / 50	Swapnil uttare
29 / 50	Pooja dilip sinalkar

18 / 50	Mulani Chandbi Rajjak
19 / 50	Dipak Prakash Patil
23 / 50	Shital Sitaram Dhindale
15 / 50	Pooja pappu dede
28 / 50	Pratiksha Sambhaji Autade
27 / 50	Bhor Ashwini
20 / 50	Mrunalini Pandit Shirole
27 / 50	Aishwarya Rajendra Bachhav
17 / 50	Kajal Jadhav
28 / 50	Neha Baban Shinde
15 / 50	Rutuja Dhikale
28 / 50	Kadam Shital Sanjay
30 / 50	Chavan shraddha sanjay
36 / 50	prachalit parate
19 / 50	Monika pralhad sakunde
28 / 50	Bhagyashri Ramdas desale
21 / 50	GIRIJA SANJAY PUROHIT
25 / 50	Ashwini Vijay Bhavar
26 / 50	Pallavi Suresh Rahane
34 / 50	Gatkal Latika Ramrao
27 / 50	Mhaske Kamini Sunil
16 / 50	Jyoti bapu bhosale
27 / 50	Sandhya kumari
12 / 50	Amar Gutte
27 / 50	Nikita Uttamrao Chaudhari
24 / 50	Mandlik Vikas
14 / 50	Garudkar shital sudam
32 / 50	Roshani Dineshsing Bagul
25 / 50	Neha pramod Patil
18 / 50	muskan irfan shaikh
29 / 50	Pratiksha jotiram jagtap
26 / 50	Kawale Parmeshwari
21 / 50	PATEL VISHVA YOGESHBHAI

14 / 50	Mahesh Vasanta Lode
28 / 50	Shaikh Saniya Papa
28 / 50	Pallavi Kisan Nikam
26 / 50	Ohol Snehal Sahebrao
26 / 50	Sayali vijay talware
21 / 50	Kale mayuri bapurao
21 / 50	Ugale pranjal shivaji
19 / 50	Panthini Patel
31 / 50	Nakiyya Bahrainwala
18 / 50	sadashiv padvi
25 / 50	Shital Pawar
31 / 50	Rishabh Pandey
24 / 50	Bhuvaneshwari Nagesh Vatte
12 / 50	Yogesh Vyawahare
23 / 50	Bhamare pallavi Arun
24 / 50	Ashvini Balasaheb Gawhane
25 / 50	Dhanashri anil Jadhav
33 / 50	Argade Pranjal Dnyaneshwar
27 / 50	Kamthe Dnyaneshwari Kaluram
32 / 50	Rohokale Sheetal Sambhaji
22 / 50	Dushing Swati Madhukar
27 / 50	Attar samrin shafique
24 / 50	bhushan kadgaye
24 / 50	Suvarna somvanshi
25 / 50	Vinaya Tanaji Kadam
33 / 50	Pratiksha Dilip rukari
28 / 50	Fatima Irshad Khan
26 / 50	Nikhil Dnyaneshwar khandalkar
39 / 50	Anchal Agarwal
24 / 50	Amruta Ashok Mahale
17 / 50	Muskan zainuddin shaikh
27 / 50	Adhav jayshri shankar
34 / 50	Shaikh Namira Nasir

36 / 50	Sayali Bora
31 / 50	Pansambal Harshada Bhausaheb
23 / 50	Shruti satish bathe
30 / 50	Vidhya S Nair
27 / 50	Geeta Bhujang Pawar
23 / 50	Thorat sonali Prakash
7 / 50	Pooja
22 / 50	Tejaswini Devidas Pawar
16 / 50	Atiya Fatema Abdul Qahar
22 / 50	Santoshi
23 / 50	Ram vinchu
34 / 50	Aqsa sayyed
13 / 50	Nagare Ashwini bhagwan
27 / 50	Shaikh Khansa Anis
27 / 50	Mangesh Dhananjayrao Patil
37 / 50	Dhadiwal Tejal Santosh
18 / 50	Shinde Kalyani Sanjay
30 / 50	Ankita balasaheb vanarse
22 / 50	Ashwini shankar ghule
21 / 50	Pote Abhijeet Dnyandeo
27 / 50	Deshmukh Pratiksha Prakash
28 / 50	Vasudha Sanjay Jadhav
29 / 50	Singh Pratikshakumari Rajeevkumar
28 / 50	Nivida Naren Joshi
2 / 50	Shevte abhishek
34 / 50	Shivani
23 / 50	Radha Vyankatrao Panchal
26 / 50	Walhekar Bharati Jaywant
31 / 50	Ahire Renuka Kishor
18 / 50	Nikam Ruchita Ravindra
26 / 50	Shital Sarjerao Sonawane
22 / 50	Ashwini Chonker
36 / 50	Teju Kakade

28 / 50	Raut
34 / 50	SHAIKH MISBA ZULFIKAR
31 / 50	Prajakta kshirsagar
28 / 50	Varsha Sandip Pathade
20 / 50	Ram
20 / 50	Sneha vijay yadav
36 / 50	Tamboli Ishrat Viquar
1 / 50	Arti Ashok Dalvi
31 / 50	Rohit bhalode
18 / 50	daware madhuri rajaram
30 / 50	Shaikh Anas
30 / 50	Rutuja Vijay Patil
22 / 50	Seema Rajendra More
24 / 50	Aarti Sanjay Gade
31 / 50	Suryavanshi Madhuri Yogesh
26 / 50	Shyam Kadu
30 / 50	Rutuja Sanjay suryavanshi
15 / 50	Anzah yaseen shaikh
19 / 50	Gaikwad Sonali dnyandeo
29 / 50	Swapna Patil
12 / 50	AL.HEBA faiz Ahmed
21 / 50	Aher neha pravin
25 / 50	Zikra Tamboli
18 / 50	Rahul said
32 / 50	Hire kajal Ramakant
33 / 50	Taskeen
13 / 50	Pooja kandekar
21 / 50	Kadam anuja bhaskar
17 / 50	Bachhav Ashwini Bhausahab
12 / 50	Bhushan Jadhav
22 / 50	Madhuri Tope
34 / 50	Sachin Maroti Ramteke
26 / 50	Pratibha Jadhav

9 / 50	Ashwini Bharat doke
33 / 50	Shaikh Rukkaiya Rajmohamad
22 / 50	Prajakta pote
28 / 50	Sarita umeshchandra yadav
34 / 50	Kale Sumant
24 / 50	Suryawanshi swati shalikrao
30 / 50	Anjum Sayyed
21 / 50	Shankar thite
31 / 50	Pathade Pooja Chandrakant
31 / 50	PRATIK
22 / 50	Nikam Tejashri Manohar
33 / 50	Pushpa Latha Boddu
9 / 50	Kalyani Dinkar Gaikwad
10 / 50	Khairnar Sayali Vishwanath
34 / 50	Ankita parakh
29 / 50	Vishal Dilip Bombe
25 / 50	soumya kolekar
15 / 50	Nimbhore tushar dipak
28 / 50	Perane Shreya Bharat
33 / 50	Gaurav Rajendra Chaudhari
17 / 50	Neelam Brijesh Kushwaha
26 / 50	KHAN SHAMA MOHAMMED YASIN
33 / 50	Lakesh patel
21 / 50	Gangwal Apurva
25 / 50	Radheshyam kumar
23 / 50	Pomane Supriya
27 / 50	Vinay shrawan jadhav
25 / 50	salunkhe dipti
30 / 50	Yadav Sony Shriniwas
13 / 50	Abu Huzaifa Md Mustafa
12 / 50	Aqueel Ahmed Nazeer Ahmed
30 / 50	Sushma vidhichand yadav
21 / 50	NG

24 / 50	Khade shilpa ramdas
22 / 50	Alfiya Gulab Sache
21 / 50	Abcd
26 / 50	Potphode mayuri nivrutti
26 / 50	Manisha Nagnarayan pandit
21 / 50	Darekar priya ravindra
28 / 50	Parjane Nikita Babasaheb
16 / 50	Priyanka suryakant Kakade
32 / 50	More Snehal shankar
11 / 50	Katariya ankita nareshbhai
31 / 50	Prachi Sanjay Vedpathak
18 / 50	Shaikh tuba
32 / 50	Nilofar Raju Kachhi
29 / 50	Kapadnis yojana rakesh
36 / 50	Jidnyasa Shripat Pachkude
27 / 50	Nitish Sharma
21 / 50	Shaikh Saima Murtuza
31 / 50	Ganesh g
27 / 50	Riya Thorat
27 / 50	Jagruti k. chaure
26 / 50	Sonali chormale
14 / 50	Simran
21 / 50	Ahire Ujwala Sudhakar
32 / 50	Khushal Jain
26 / 50	Sayyed Sabiha Feroz
6 / 50	Shaikh Swaleha Maqbool
9 / 50	Gadakh Anuja Pandurang
17 / 50	Shubham Anil Adsure
26 / 50	Muskan Anis Tamboli
25 / 50	Munesh Jagtap
30 / 50	Arkhade Rohini Govind
24 / 50	Anup Bhagat
21 / 50	Mankar Sonali Rajaram

19 / 50	Bhagat kiran changdev
24 / 50	Kolpe Puja Dadasaheb
3 / 50	Pooja Bharat Midage
19 / 50	Manoj Bhandwalkar
30 / 50	Mane Vishal Abhimanyu
33 / 50	Raktate sayali madhukar
31 / 50	Sathe Rajashri Rajendra
33 / 50	Akshada Pathare
37 / 50	PRADYUMNA PRAVINKUMAR BADA VE
28 / 50	Paswan santoshkumar shri Suresh
27 / 50	Suresh Manik Kolape
30 / 50	Shirsath Ashwini Malhari
26 / 50	Gracy Sathe
38 / 50	Shubhangi Sanjay Pardeshi
30 / 50	AM2MY
26 / 50	Mansi arun jadhav
21 / 50	Gawali Sanket Subhash
28 / 50	Ansari Shairina akber
27 / 50	Inamdar kashaf farooque
27 / 50	Shahezeen Mohammad Arif Jamadar
22 / 50	Tuahar Yashwant Pansare
3 / 50	Tasneem Liyakat Bagwan
19 / 50	Andhale varsha Santosh
33 / 50	Nikita pawar
25 / 50	Shaikh Arshiya Hashim
11 / 50	Sneha Shaji
28 / 50	Shubhangi Pandit Roman
6 / 50	shital satish solanke
25 / 50	Nida Ayyub Kazi
18 / 50	Aarti Dhruvbal Tikhe.
29 / 50	NAMEERA JAMIL KAZI
25 / 50	Dube Jayprakash
27 / 50	kiran.jangid

22 / 50	Sayali Malpure
23 / 50	Saraswati sadanand harage

PDE Mock Test

This test is organized by Department of Mathematics SNJB's KKHA arts SMGL Commerce and SPHJ Science College, Chandwad. The aim of this test is to boost students for MCQ examination in academic as well as competitive examinations.

* Required

1. Email *

2. Full name *

3. College Name *

4. Mobile Number *

PDE test

There are 27 questions .
Attempt any 25 question
Time limit is 1 hour

5. The number of independent variables in partial differential equation

2 points

Mark only one oval.

- 0
- 1
- At least 2
- Exactly 1

6.

2 points

The parametric equations $x = a \sin u \cos v$, $y = a \sin u \sin v$, $z = a \cos u$ represent

A. Paraboloid B. Sphere C. Cube D. Hyperboloid

Mark only one oval.

- A
- B
- C
- D

7.

2 points

The parametric equations $x = a \frac{1-v^2}{1+v^2} \cos u$, $y = a \frac{1-v^2}{1+v^2} \sin u$, $z = \frac{2av}{1+v^2}$

A. Paraboloid B. Sphere C. Cube D. Hyperboloid

Mark only one oval.

- A
- B
- C
- D

8.

2 points

The order of PDE $\left(\frac{\partial z}{\partial x}\right)^2 = \left(\frac{\partial z}{\partial y}\right)^2 + 4\frac{\partial z}{\partial t}$

Mark only one oval.

 1 2 3 0

9.

2 points

What is corresponding PDE if solution is $z = a(x + y) + b$

A. $p=2q$ B. $p+q=0$ C. $p-q=0$ D. $2q-p=0$

Mark only one oval.

 A B C D

10.

2 points

The partial differential equation $yp - xq = xyz + x$ is |

- A. Linear B. Semi-linear C. Quasi-linear D. Non-linear

Mark only one oval.

A

B

C

D

11.

2 points

The Partial differential equation $(x^2 + z^2)p - xyq = z^3x + y^2$ is

- A. Linear B. Semi-linear C. Quasi-linear D. Non-linear

Mark only one oval.

A

B

C

D

12.

2 points

The equation $z = (x^2 + a)(y^2 + b)$ is solution of PDE

A) $pq = 5z$

B) $pq = 15z^2$

C) $pq = 4xyz$

D) None of these

Mark only one oval.

 A B C D

13.

2 points

The complete integral of $q = 3p^2$ is

A) $y = ax + 3a^2z + b$

B) $z = ax + 3a^2y + b$

C) $x = ay + 3b^2z + c$

D) $z = 3a^2x^2 + 3b^2y + z$

Mark only one oval.

 A B C D

14.

2 points

The PDE $\frac{\partial^2 z}{\partial x^2} + 3 \frac{\partial^2 z}{\partial xy} + \frac{\partial^2 z}{\partial y^2} = 0$ is of the order

A) One

B) Two

C) Three

D) None of these

Mark only one oval.

 A B C D

15.

2 points

A necessary and sufficient condition that the Pfaffian differential equation $X \cdot dr = 0$ should be integral is that

A) $X \cdot \text{curl}X = 0$ B) $X \cdot \text{curl}X \neq 0$ C) $\text{curl}X = 0$ D) $[X, \text{curl}X] = 0$

Mark only one oval.

 A B C D

16.

2 points

The PDE $ydx + xdy + 2zdz = 0$ has a solution

A) $xy = c$

B) $xy + z^2 = c$

C) $zy + x^2 = c$

D) $xyz = c$

Mark only one oval.

 A B C D

17.

2 points

If $Pdx + Qdy + Rdz = 0$ is separable then

A) $\int P dx + \int Q dy + \int R dz = 0$

B) $\int P dx + \int Q dz + \int R dy = 0$

C) $\int Q dz + \int R dx + \int P dy = 0$

D) None of these

Mark only one oval.

 A B C D

18.

2 points

If the pfaffian differential equation $P(x, y)dx + Q(x, y)dy + R(z)dz = 0$ is integrable then

A) $\frac{\partial R}{\partial x} = \frac{\partial P}{\partial y}$

B) $\frac{\partial P}{\partial y} = \frac{\partial Q}{\partial x}$

C) $\frac{\partial R}{\partial x} \neq \frac{\partial Q}{\partial y}$

D) None of these

Mark only one oval.

 A B C D

19.

2 points

The PDE $yzdx + xzdy + xydz = 0$ has a solution

A) $xyz = c$

B) $xy = z$

C) $xz \neq y$

D) $pq = c$

Mark only one oval.

 A B C D

20.

2 points

The solution of PDE $px + qy = 0$ is

A) $y = F(z/x)$

B) $x = F(z/y)$

C) $z = F(x/y)$

D) None of these

Mark only one oval.

 A B C D

21.

2 points

The PDE $z^2(1 + p^2 + q^2) = 1$ has a solution

A) $(x - a)^2 + (y - b)^2 + z^2 = 1$

B) $x^2 + (y - b)^2 + (z - c)^2 = 1$

C) $x^2 + y^2 + z^2 = a^2$

D) $(x - a)^2 + y^2 + (z - c)^2 = 1$

Mark only one oval.

 A B C D

22.

2 points

The general integral of $yzp + xzq = xy$ is

A) $F(x^2 - y^2, z^2 - y^2) = 0$

B) $F(x + y, z - y) = 0$

C) $F(x^2 + y^2, z - y) = 0$

D) $F(z^2 - x^2, y^2 - x^2) = 0$

Mark only one oval.

A

B

C

D

23.

2 points

The equations $f(x, y, z, p, q) = 0$ and $g(x, y, z, p, q) = 0$ are compatible on a domain D if

A) $J = \frac{\partial(f, g)}{\partial(p, q)} = 0$

B) $J = \frac{\partial(f, g)}{\partial(p, q)} \neq 0$

C) $J = \frac{\partial(f, g)}{\partial(x, y)} = 0$

D) None of these

Mark only one oval.

A

B

C

D

24.

2 points

The complete integral of $f(p, q) = p + q - pq = 0$ is

$$\text{A) } z = \frac{ax}{a-1} + ay + b \quad \text{B) } z = \frac{by}{b-1} + bx + c$$

$$\text{C) } z = \frac{cz}{z-1} + ax + b \quad \text{D) } z = \frac{cy}{y+1} + ax + b$$

Mark only one oval.

 A

 B

 C

 D

25.

2 points

The complete integral of PDE $z = px + qy + \log pq$ is

$$\text{A) } z = ax + by + \log ab$$

$$\text{B) } z = cy + az + \log ab$$

$$\text{C) } z = e^{ax+by}$$

D) None of these

Mark only one oval.

 A

 B

 C

 D

26.

2 points

4) The solution of PDE $(y + z)p + (z + x)q = x + y$ is

A) $xy + yz + zx = c$

B) $x + y - z = c$

C) $x^2 + y^2 + z^2 = c$

D) None of these

Mark only one oval.

 A B C D

27.

2 points

5) The solution of PDE $z = px + qy + p^2 + q^2$ is

A) $z = ax + by + a^2 + b^2$

B) $z = ax + by - a^2 - b^2$

C) $z = ax + a^2 + b^2$

D) $z = by + a^2 + b^2$

Mark only one oval.

 A B C D

28.

2 points

15) The general solution of $yzp + xzq = xy$

A) $z^2 = y^2 + G(x^2 - y^2)$

B) $x^2 = z^2 + G(x^2 - y^2)$

C) $y^2 = z^2 + G(x^2 - y^2)$

D) None of these

Mark only one oval.

A

B

C

D

29. Complete integral of $pq=1$ is

2 points

Mark only one oval.

$z=ax+by+c$

$z=ay+bx+c$

$z=ax+(1/a)y+c$

$z= ax+(1/b)y+c$

30.

2 points

The order of the PDE $\frac{\partial^2 z}{\partial x^2} + 3 \frac{\partial^2 z}{\partial xy} + \frac{\partial^2 z}{\partial y^2} = 0$ is

Mark only one oval.

0

1

2

3

31.

2 points

14) The general solution of $xp + yq = z$ is

- A) $F\left(\frac{z}{y}, \frac{x}{y}\right) = 0$ B) $F\left(\frac{y}{x}, \frac{y}{z}\right) = 0$ C) $F\left(\frac{x}{y}, \frac{y}{z}\right) = 0$ D) None of these

Mark only one oval.

A

B

C

D

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