

RK VIGYAN PG COLLEGE  
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B.SC 3<sup>RD</sup> SEMESTER MATHEMATICS

S.N	PAPER (I, II,) NAME	UNIT	TOPIC	VIDEO LINK
1		<b>UNIT-I</b>	BOUNDED SET	<a href="https://www.youtube.com/live/AZm8WIGux7U?si=sFpx1v7f4Fuvrhs5">https://www.youtube.com/live/AZm8WIGux7U?si=sFpx1v7f4Fuvrhs5</a>
2			Neighborhood part B	<a href="https://www.youtube.com/live/jRQx3C-2ov4?si=nBtWQRmGmOfaWDIw">https://www.youtube.com/live/jRQx3C-2ov4?si=nBtWQRmGmOfaWDIw</a>
3			Limit point	<a href="https://www.youtube.com/live/FM-IDsuM6pc?si=l3rKqUhBZDt5hzWy">https://www.youtube.com/live/FM-IDsuM6pc?si=l3rKqUhBZDt5hzWy</a>
4			Limit point 02	<a href="https://www.youtube.com/live/bsOI-RfyyQY?si=FagZ6koa8AKps_FM">https://www.youtube.com/live/bsOI-RfyyQY?si=FagZ6koa8AKps_FM</a>
5			Bolzano-weierstrass theorem	<a href="https://www.youtube.com/live/sqO3IFjQggs?si=no4rqq5N0Qewcexr">https://www.youtube.com/live/sqO3IFjQggs?si=no4rqq5N0Qewcexr</a>
6			Close and open set	<a href="https://www.youtube.com/live/qq9eVdWYJUJ?si=GS660U9bKYsqdiXN">https://www.youtube.com/live/qq9eVdWYJUJ?si=GS660U9bKYsqdiXN</a>
7			Close and open set ki 02	<a href="https://www.youtube.com/live/itCsMcUy70A?si=LpDATERGyRpMdWD9">https://www.youtube.com/live/itCsMcUy70A?si=LpDATERGyRpMdWD9</a>
8			Close and open set ki 03	<a href="https://www.youtube.com/live/aOSlxQg0IV4?si=lg8DUQHqZrdZI-fS">https://www.youtube.com/live/aOSlxQg0IV4?si=lg8DUQHqZrdZI-fS</a>
9			Concept of compactness and connectedness	<a href="https://www.youtube.com/live/BrONtFLQr-4?si=cYehySLqB0_nPr_T">https://www.youtube.com/live/BrONtFLQr-4?si=cYehySLqB0_nPr_T</a>
10			Hein borel theorem	<a href="https://www.youtube.com/live/j6sQvZZ7YF0?si=nWSRegOtpKQRS_aL">https://www.youtube.com/live/j6sQvZZ7YF0?si=nWSRegOtpKQRS_aL</a>
11		<b>UNIT-II</b>	Real sequence	<a href="https://youtu.be/rSZ_kg2vSaY?si=wcZQClI7WCAgLBdp">https://youtu.be/rSZ_kg2vSaY?si=wcZQClI7WCAgLBdp</a>
12			Limit point of sequence	<a href="https://youtu.be/0M8CkXmZtt4?si=fR_hbFDc8TKSasSx">https://youtu.be/0M8CkXmZtt4?si=fR_hbFDc8TKSasSx</a>
13			Limit point of sequence ki 02	<a href="https://youtu.be/xxcM_fNUydo?si=Geg1O7sE21olvZMz">https://youtu.be/xxcM_fNUydo?si=Geg1O7sE21olvZMz</a>
14			Convergence sequence	<a href="https://youtu.be/BxOOXlojef0?si=TWfq1FYm162bhX25">https://youtu.be/BxOOXlojef0?si=TWfq1FYm162bhX25</a>
15			Convergence sequence 02	<a href="https://youtu.be/AOfShD3mJt0?si=94MpJ3_4Hhzcvdzk">https://youtu.be/AOfShD3mJt0?si=94MpJ3_4Hhzcvdzk</a>
16			Convergence sequence 03	<a href="https://youtu.be/mlVzGmaVNrs?si=U5UZITjOtQyoWjmS">https://youtu.be/mlVzGmaVNrs?si=U5UZITjOtQyoWjmS</a>
17			Monotonic sequence	<a href="https://youtu.be/jH-wGZt-FMo?si=LXnNvpG1c35n4mY">https://youtu.be/jH-wGZt-FMo?si=LXnNvpG1c35n4mY</a>

18			Cauchy' sequence	<a href="https://youtu.be/xcT5F90sqs4?si=OJZK4akyp4HLCokL">https://youtu.be/xcT5F90sqs4?si=OJZK4akyp4HLCokL</a>
19			Cauchy' general principle of conversation	<a href="https://youtu.be/QJhMybeOcZE?si=qMNVneGAjrJo_Vp6">https://youtu.be/QJhMybeOcZE?si=qMNVneGAjrJo_Vp6</a>
20			Subsequence	<a href="https://youtu.be/JCWJLjcH9b8?si=N5cfjuYyE7sIP4R3">https://youtu.be/JCWJLjcH9b8?si=N5cfjuYyE7sIP4R3</a>
21			Continuous function	<a href="https://youtu.be/8PorAZXfdSY?si=NPJSDUIqvxxs4Tjj">https://youtu.be/8PorAZXfdSY?si=NPJSDUIqvxxs4Tjj</a>
22			Function of closed interval	<a href="https://youtu.be/8dfNDnbdW9U?si=GJLUy9abDg6uBQuI">https://youtu.be/8dfNDnbdW9U?si=GJLUy9abDg6uBQuI</a>
23		<b>UNIT-III</b>	Exact differential equations	<a href="https://youtu.be/o6zBhMDxmY8?si=y1EJnBsRz-tiF_h9">https://youtu.be/o6zBhMDxmY8?si=y1EJnBsRz-tiF_h9</a>
24			Reducible to exact differential equations	<a href="https://youtu.be/sl1sZRM7Tvg?si=oPHToLx7T1dpC7tz">https://youtu.be/sl1sZRM7Tvg?si=oPHToLx7T1dpC7tz</a>
25			Second order linear differential equations	<a href="https://youtu.be/pZgRMNu-Csk?si=QSqBAFlmhpy2_s6p">https://youtu.be/pZgRMNu-Csk?si=QSqBAFlmhpy2_s6p</a>
26			Equations solvable for	<a href="https://youtu.be/gUD3kcgATFE?si=goyd4NgsNWb47Oh0">https://youtu.be/gUD3kcgATFE?si=goyd4NgsNWb47Oh0</a>
27			Solvable for y	<a href="https://youtu.be/1PzFMMJAM2Y?si=bW0K_NddbXP4KAQT">https://youtu.be/1PzFMMJAM2Y?si=bW0K_NddbXP4KAQT</a>
28			Equations solvable for x	<a href="https://youtu.be/2U-Krwbryo?si=AvUvu_x9Lg4zyA-i">https://youtu.be/2U-Krwbryo?si=AvUvu_x9Lg4zyA-i</a>
29			Linear differential equations with constant coefficients, Complementary ki class 01	<a href="https://youtu.be/pthhx1P1gEg?si=EZrjBIHCNBzUrrzG">https://youtu.be/pthhx1P1gEg?si=EZrjBIHCNBzUrrzG</a>
30			Linear differential equations with constant coefficients, Complementary ki class 02	<a href="https://youtu.be/DOTQ0kyaVOM?si=A2-iiHb9deF8CVNk">https://youtu.be/DOTQ0kyaVOM?si=A2-iiHb9deF8CVNk</a>
31			Linear differential equations with constant coefficients, Complementary ki class 03	<a href="https://youtu.be/nwQWaHoPK8U?si=fgT43wf8yVs6Wd5H">https://youtu.be/nwQWaHoPK8U?si=fgT43wf8yVs6Wd5H</a>
32			Linear differential equations with constant coefficients, Complementary ki class 04	<a href="https://youtu.be/h-ffLi1Mlmg?si=TbHcDpMaOIYUmxJT">https://youtu.be/h-ffLi1Mlmg?si=TbHcDpMaOIYUmxJT</a>

33			Linear differential equations with constant coefficients, Complementary ki class 05	<a href="https://youtu.be/_GsHS15658I?si=6ANBuMoaSyG3A25D">https://youtu.be/_GsHS15658I?si=6ANBuMoaSyG3A25D</a>
34			Linear differential equations with constant coefficients, Complementary ki class 06	<a href="https://youtu.be/NILshtijSq4?si=rpqOoPNDbQ_V9zuI">https://youtu.be/NILshtijSq4?si=rpqOoPNDbQ_V9zuI</a>
35		<b>UNIT-IV</b>	Homogeneous Linear differential equations	<a href="https://youtu.be/M4xllc07GPw?si=q2w57dRoAz3K_py6">https://youtu.be/M4xllc07GPw?si=q2w57dRoAz3K_py6</a>
36			Linear differential equations second order	<a href="https://youtu.be/pZgRMNu-Csk?si=caaCzT1HdbNzzrjI">https://youtu.be/pZgRMNu-Csk?si=caaCzT1HdbNzzrjI</a>
37			Solvable by transformation of the equation by changing the dependent variable/the independent variable,	<a href="https://youtu.be/PgoVn6uucEE?si=ZH2xW3cBb_0ZhYeW">https://youtu.be/PgoVn6uucEE?si=ZH2xW3cBb_0ZhYeW</a>
38			Variation of parameters	<a href="https://youtu.be/BtikEaWU6YI?si=wa_jTu2lqdPYjdu6">https://youtu.be/BtikEaWU6YI?si=wa_jTu2lqdPYjdu6</a>
39			Method of undetermined coefficient	<a href="https://youtu.be/Ywq3B_MIkVY?si=7AkHmNL7kl5ugU8P">https://youtu.be/Ywq3B_MIkVY?si=7AkHmNL7kl5ugU8P</a>