

KCES's College of Engineering & IT Jalgaon
Activity Report

Name of The Activity: MCQ Test on Mathematics for FE Engg. Newly Admitted Student			
Category of activity	Curricular	Co-curricular	Extra-curricular
Date:	25/08/2016	Participants profile:	<i>Student</i>
Name of Co-ordinator (S)	1.Mr. S.M.Jambhaikar 2. Mr. S.R.Kumavat		
Guest/ Experts (If any)	MCQ Test on Mathematics		
Objective for conducting activity	MCQ Test on Mathematics (Subject Knowledge)		
Methodology	MCQ Test on Mathematics		
Out Come	Newly admitted students aware about the different activities conducted (Life Skill)		

Photos:



Mwas
IQAC coordinator



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 MANAGEMENT, JALGAON

Mwas
Principal

KCES's COLLEGE OF ENGINEERING & IT, JALGAON

DEPARTMENT OF BASIC SCIENCES & FIRST YEAR ENGG.

2016-17

ATTENDANCE LIST

MCQ TEST ON BASIC MATHS

DATE: 25/08/2016

ROLL NO	NAME OF STUDENT	SIGN
1	BADGUJAR BHAGYASHRI ANIL	<i>Badgujar</i>
2	BADGUJAR NAYANA RAJENDRA	<i>Badgujar</i>
3	BHATY CHANDAN VINOD	<i>Chhaty</i>
4	CHAUDHARI KAJAL SHASHIKANT	<i>Chaudhari</i>
5	CHIKNE PRATHMESH GANESH	<i>Chikne</i>
6	CHAUDHARI PRIYANKA DIGAMBAR	<i>Chaudhari</i>
7	DESALE DHANASHRI ARVIND	
8	DESHMUKH TRUPTI MADHUKAR	<i>Deshmukh</i>
9	DHANGAR BHAGYASHRI BHARAT	<i>Dhangar</i>
10	GURAV NEHA AJAY	<i>Gurav</i>
11	KOLHE MAYUR MADHUKAR	<i>Kolhe</i>
12	MARUMARDANE RAKSHADA KAILAS	<i>Marumardane</i>
13	NEHTE CHETAN ANIL	<i>Nehate</i>
14	PANDE NEHA SANTOSH	<i>Pande</i>
15	PATIL CHHAYA YASHWANT	<i>Patil</i>
16	PATIL JAGRUTI SHIVAJI	<i>Patil</i>
17	PATIL KAJOL SHASHIKANT	<i>Patil</i>
18	PATIL KOMAL SHARAD	<i>Patil</i>
19	PATIL MOHINI CHHAGAN	<i>Patil</i>
20	PATIL DIVYA DILIP	<i>Patil</i>
21	PATIL BHAVNA PRAMOD	<i>Patil</i>
22	PATIL NILIMA VIKAS	<i>Patil</i>
23	RANE SURAJ SUNIL	<i>Rane</i>
24	SARASWAT HARSHITA MAHAVIR	<i>Saraswat</i>
25	THORAT PRIYANKA RAJENDRA	<i>Thorat</i>
26	VINCHURKAR VAIBHAVEE VIVEKANAND	<i>Vinchurkar</i>
27	WANI VINIT BHAGWAT	<i>Wani</i>
28	BARHATE CHAITALI DNYANESHWAR	<i>Barhate</i>
29	CHAUDHARI LALIT VASUDEO	<i>Chaudhari</i>
30	CHAUDHARI MAYUR KAILAS	<i>Chaudhari</i>
31	MAHAJAN PRATIKSHA PRAKASHI	<i>Mahajan</i>
32	PAKHARE NIKITA GAJANAN	<i>Pakhare</i>
33	PANDHARKAR SUYOG SWAPNIL	<i>Pandharkar</i>
34	PANDE PRATIK SAGAR	
35	WAGH SUDHIR RAVINDRA	<i>Wagh</i>



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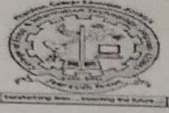
36	BODADE SHIWANI MADHUKAR	<i>[Signature]</i>
37	DESHMUKH SHWETA SANJAY	<i>[Signature]</i>
38	KHAIRNAR AJAY JITENDRA	<i>[Signature]</i>
39	MALI VIVEK ANANI	<i>[Signature]</i>
40	PATIL VAISHALI RAVINDRA	<i>[Signature]</i>
41	SHAIKH VAQAR SHAIKH MAJEED MANIYAR	<i>[Signature]</i>
42	WAKIKAR MAYUR DEEPAKRAO	<i>[Signature]</i>
43	CHAUDHARI MOHIT LILADHAR	<i>[Signature]</i>
44	CHOPADE NIKHIL SHRIRAM	<i>[Signature]</i>
45	KARANKAL SWAPNIL BHAIYYA	<i>[Signature]</i>
46	KINGE PIYUSH GAJANAN	<i>[Signature]</i>
47	KOLAMBE YASH NIVRUTTI	<i>[Signature]</i>
48	MAHAJAN ISHWAR DNYANESHWAR	<i>[Signature]</i>
49	PATIL HARSHAL PANDHARINATH	<i>[Signature]</i>
50	PAWAR DIKESH NARENDRA	<i>[Signature]</i>
51	SARVARE AALAM MINHAJ AHMAD	<i>[Signature]</i>
52	SAYYED JUNAID SAYYED NOOR	<i>[Signature]</i>
53	SONAWANE TEJASWINI DIPAK	<i>[Signature]</i>
54	YAWALKAR PRASAD RAVINDRA	<i>[Signature]</i>

[Signature]
SUBJECT INCHARGE
MR. S.M.JAMBHAIKAR

[Signature]
HEAD OF DEPARTMENT
MR. N.N.MATKARI



[Signature]
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K.C.E. Society's College of Engineering and I.T. Jalgaon
Department of FE and Basic Sciences
MCQ Test on Basic Mathematics

Date: 25/08/2016

Marks : 20

Duration: 30 min

Student Name:

Roll No:

Q. 1. $\frac{d}{dx} \left(\frac{u}{v} \right) =$

a) $\frac{v \frac{du}{dx} + u \frac{dv}{dx}}{v^2}$

b) $\frac{u \frac{du}{dx} - v \frac{dv}{dx}}{v^2}$

c) $\frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$

d) $\frac{v \frac{du}{dx} - u \frac{dv}{dx}}{u^2}$

Q. 2. $\frac{d}{dx} (u \cdot v) =$

a) $u \frac{dv}{dx} - v \frac{du}{dx}$

b) $u \frac{du}{dx} + v \frac{dv}{dx}$

c) $u \frac{dv}{dx} + v \frac{du}{dx}$

d) $u \frac{dv}{dx} \cdot v \frac{du}{dx}$

Q. 3. $\int uv dx =$

a) $u \int v dx + \int \left[\frac{du}{dx} \int v dx \right] dx + c$

b) $u \int v dx - \int \left[\frac{du}{dx} \int v dx \right] dx + c$

c) $v \int u dx - \int \left[\frac{dv}{dx} \int u dx \right] dx + c$

d) $u \int v dx - \int \left[\frac{dv}{dx} \int u dx \right] dx + c$

Q. 4. $\int e^{ax} \cos bx dx =$

a) $\frac{e^{ax}}{a^2 + b^2} (a \cos bx + b \sin bx) + c$

b) $\frac{e^{ax}}{a^2 + b^2} (a \cos bx - b \sin bx) + c$

c) $\frac{e^{ax}}{a^2 + b^2} (b \sin bx - a \cos bx) + c$

d) $\frac{e^{ax}}{a^2 + b^2} (a \cos bx + b \sin bx) + c$

Q. 5. $\int e^{ax} \sin bx dx =$

a) $\frac{e^{ax}}{a^2 + b^2} (a \cos bx + b \sin bx) + c$

b) $\frac{e^{ax}}{a^2 + b^2} (a \sin bx + b \cos bx) + c$

c) $\frac{e^{ax}}{a^2 + b^2} (a \sin bx - b \cos bx) + c$

d) $\frac{e^{ax}}{a^2 + b^2} (b \sin bx a - \cos bx) + c$

Q. 6. $\frac{d}{dx} (\sec x \cdot \tan x) =$

a) $\sec^2 x + \tan^2 x \sec x$

b) $\sec^3 x + \tan^2 x \sec x$

c) $\sec^2 x - x \sec x$

d) $\sec^2 x + \tan^3 x \sec x$

Q. 7. $\frac{d}{dx} \left(\frac{\tan x}{1+x^2} \right) =$

a) $\frac{(1+x^2)\sec^2 x - 2x \cdot \tan x}{(1+x^2)^2}$

b) $\frac{(1+x^2)\sec^2 x + 2x \cdot \tan x}{(1+x^2)^2}$

c) $\frac{(1+x^2)\sec^2 x - x \cdot \tan x}{(1+x^2)^2}$

d) $\frac{(1+x^2)\sec^3 x - 2x \cdot \tan x}{(1+x^2)^2}$

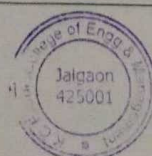
Q. 8. If $f(x) = x^2 - 2x + 5$ and $t = y - 2$ then $f(t) =$

a) $y^2 - 6y + 13$

b) $y^2 + 6y + 13$

c) $y^2 + 6y - 13$

d) $y^2 - 6y - 13$



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Q. 9. $\log(xy) =$

- a) $\log x + \log y$ b) $\log x - \log y$ c) $\log x \cdot \log y$ d) $(\log x)y$

Q. 10. If $f(x) = x^2 - 3x + 4$ then $f(2x + 1)$

- a) $4x^2 - 2x + 5$ b) $4x^2 - 2x + 2$ c) $x^2 - 2x + 5$ d) $x^2 - 2x + 2$

Q. 11. $\int \sin^2 x \, dx =$

- a) $\frac{x}{2} - \frac{\sin 2x}{4} + c$ b) $\frac{x}{2} - \frac{\sin x}{4} + c$ c) $\frac{x}{2} + \frac{\sin 2x}{4} + c$ d) $x - \frac{\sin 2x}{4} + c$

Q. 12. $\int \sqrt{1 + \sin 2x} \, dx =$

- a) $\cos x + \sin x + c$ b) $-\cos x + \sin x + c$ c) $-\cos x - \sin x + c$ d) $\cos x - \sin x + c$

Q. 13. $\int \frac{1 - \cos x}{1 + \cos x} \, dx =$

- a) $\tan \frac{x}{2} - x + c$ b) $2 \tan \frac{x}{2} + x + c$ c) $2 \tan x - x + c$ d) $2 \tan \frac{x}{2} - x + c$

Q. 14. $\int x(x^2 + 1)^4 \, dx =$

- a) $\frac{(x^2+1)^4}{4} + c$ b) $\frac{(x^2+1)^5}{2} + c$ c) $\frac{(x^2+1)^5}{5} + c$ d) $\frac{(x^2+1)^5}{10} + c$

Q. 15. $\int x \cdot \sin x \, dx =$

- a) $-x \cos x + \sin x + c$ b) $x \cos x + \sin x + c$ c) $-x \cos x - \sin x + c$ d) $x \cos x - \sin x + c$

Q. 16. $\int x \cdot e^x \, dx =$

- a) $e^x(x + 1) + c$ b) $e^x(x - 1) + c$ c) $e^x(x - 2) + c$ d) $e^x x + 1 + c$

Q. 17. $\int \frac{dx}{x(x+1)} =$

- a) $\log \left(\frac{x}{x+1} \right) + c$ b) $\log \left(\frac{x}{x-1} \right) + c$ c) $\log \left(\frac{x+1}{x} \right) + c$ d) $\log \left(\frac{x-1}{x+1} \right) + c$

Q. 18. $\int_0^\pi \sin 3\theta \, d\theta =$

- a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{5}{3}$ d) $\frac{2}{5}$

Q. 19. If $\int_0^1 (3x^2 + 2x + k) \, dx = 0$ then value of k is equal to

- a) 2 b) -2 c) 4 d) -4

Q. 20. $\int_1^4 \left(\sqrt{x} - \frac{1}{\sqrt{x}} \right) \, dx =$

- a) $\frac{2}{3}$ b) $\frac{8}{3}$ c) $\frac{5}{3}$ d) $\frac{5}{2}$

All The Best