2.3.1: STUDENT CENTRIC METHODS, SUCH AS EXPERIENTIAL LEARNING, PARTICIPATIVE LEARNING AND PROBLEM SOLVING METHODOLOGIES ARE USED FOR ENHANCING LEARNING EXPERIENCE

PROBLEM SOLVING

SL.NO	DOCUMENT	PAGE NO.
1	ACTIVITY BASED LEARNING	02-08
2	CODING AND DECODING	09-21
3	ONLINE QUIZ	22-25
4	QUESTION BANK	26-33
5	WORKSHEET	34-47

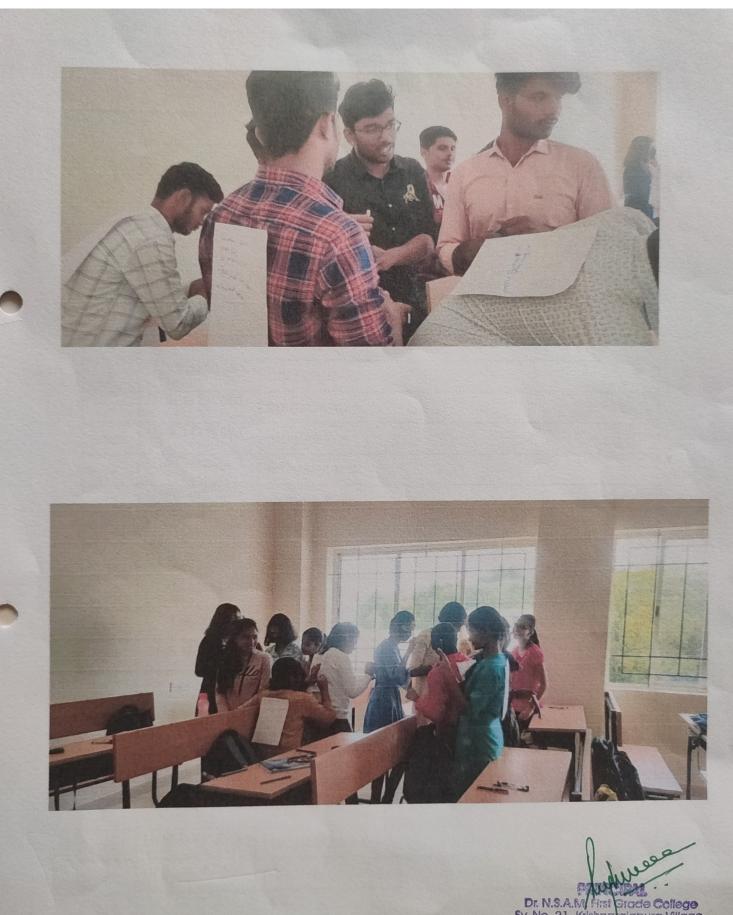
	NITTE Dr. NSAM FIRST GRADE COLLEGE
	Dr. N.S.A.M First Grade College Krishnarajapura Village, Bangalore-89 E mail: nsamfgcyel@gmail.com Website: www.nsam.ac.in
2022-23	Activity based learning report

Do you Know who you are?
16 th September 2022
Friday
Mr. Punith Kumar H S
30
1 st Sem B. Com Data Analytics
 For First year BDA Students conducted an activity-based learning "Do you know who you are" The activity mainly conducted to know what their friends think about them i.e. one positive and one negative of each. The students enjoyed and learned to make swot analysis and also, they got to know about their strength weakness.

ith during til Convener

00 Principal .

PRINCIPAL Dr. N.S.A.M. First Grade College Sy. No. 21, Krishnarajapura Village, Shivakote (P) Hesaraghatta Hobil, Bangalore-560 089



Dr. N.S.A.M/ First Grace College Sy. No. 21, Krishnalajapura Village, Shivakote (P) Hesaraghatta Hobli, Bangalore-560 089

Participation List

Sl No	Reg No	Name of the Student
1	U18CM22C000 2	RAVIKUMAR V
2	U18CM22C000 3	KUSHAL R
3	U18CM22C000 4	HAFEEZA B
4	U18CM22C000 5	PRIYANKA
5	U18CM22C000 6	BHAGYASHREE J
6	U18CM22C000 7	MEGHANA P H
7	U18CM22C000 8	KAVANA B R
8	U18CM22C000 9	DIVYASHRREE B P
9	U18CM22C001	PUNITHA N
10	U18CM22C001	SHARAN B S
11	U18CM22C001 2	MONISHA H S
12	U18CM22C001 3	NAYANA N B
13	U18CM22C001 4	RAKSHITHA N
14	U18CM22C001 5	G V UJWAL
15	U18CM22C001 6	BALAJI K S
16	U18CM22C001 7	DEEKSHAN A
17	U18CM22C001 8	RAKSHITHA B
18	U18CM22C001 9	AKASH B R
19	U18CM22C002 0	LIKHITH K N
20	U18CM22C002 1	BHOOMIKA BATNI
21	U18CM22C002 2	CHANDRA K
22	U18CM22C002 3	TEJAS K A
23	U18CM22C002 4	YOGANANDAN G
24	U18CM22C002 5	G NAVYA



2022-23

23

Activity based learning report

Topic	Ted Talk	
Date	20 rd September 2022	
Day	Friday	
Convener	Mr. Punith Kumar H S	
Total No. of Participants	30	
Target Class/ Course	1 st Sem B. Com Data Analytics	

Highlights of the Event Journey of 18 Years
The student named Nithin and Meghana came up by taking initiative to discuss about their journey of 18

years of life, their friends, relatives parents, their

challenges, Their learnings in front of their classmates

• The Platform been provided to students talk about

Runth lunr H Convener

Dr. N.S.A.M. First Grade College Sy. No. 21, Krishnarajapura Village; Shivakote (P) Hesaraghatta Hobit; Bangalere-568 989 PRINCIPAL

		Participation List
51 No	Reg No	Name of the Student
1	U18CM22C000 2	RAVIKUMAR V
2	U18CM22C000 3	KUSHAL R
3	U18CM22C000 4	HAFEEZA B
4	U18CM22C000 5	PRIYANKA
5	U18CM22C000 6	BHAGYASHREE J
6	U18CM22C000 7	MEGHANA P H
7	U18CM22C000 8	KAVANA B R
8	U18CM22C000 9	DIVYASHRREE B P
9	U18CM22C001 0	PUNITHA N
10	U18CM22C001 1	SHARAN B S
11	U18CM22C001 2	MONISHA H S
12	U18CM22C001 3	NAYANA N B
13	U18CM22C001 4	RAKSHITHA N
14	U18CM22C001 5	G V UJWAL
15	U18CM22C001 6	BALAJI K S
16	U18CM22C001 7	DEEKSHAN A
17	U18CM22C001 8	RAKSHITHA B
18	U18CM22C001 9	AKASH B R
19	U18CM22C002 0	LIKHITH K N
20	U18CM22C002 1	BHOOMIKA BATNI
21	U18CM22C002 2	CHANDRA K
22	U18CM22C002 3	TEJAS K A
23	U18CM22C002 4	YOGANANDAN G
24	U18CM22C002 5	G NAVYA

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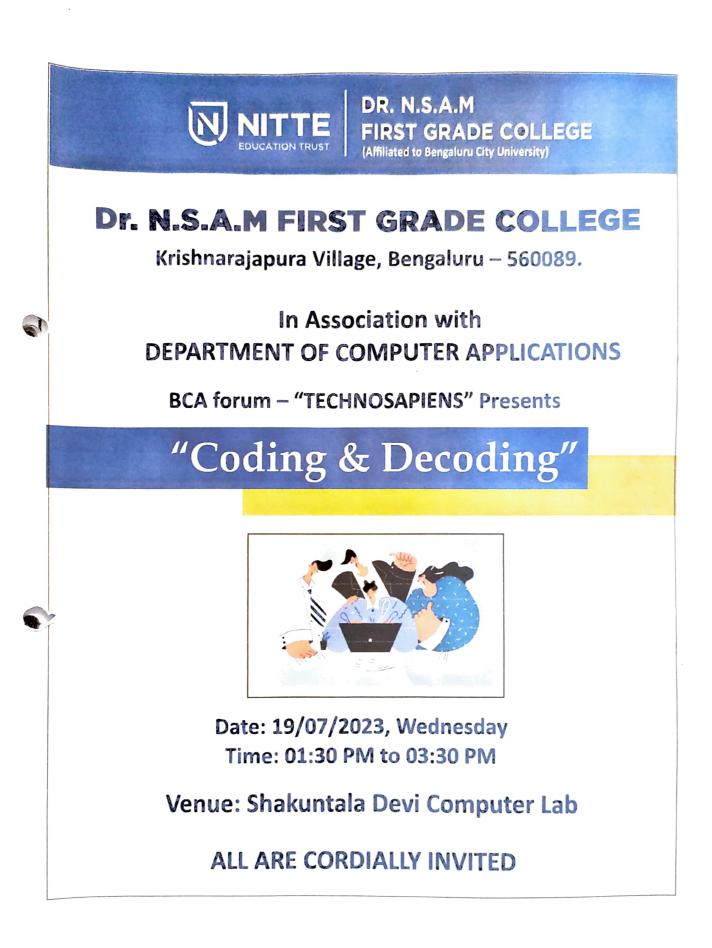
25	U18CM22C002	CHETAN B
26	U18CM22C002	ANUSHA S
27	U18CM22C002 8	VARUN KUMAR A
28	U18CM22C002 9	S NITHIN
29	U18CM22C023 2	MADESH GOWDA R
30		YASHASWINI

;;





IPAL Dr. N.S.A.M. First Grade College Sy. No. 21, Krishnarajapura Village, Shivakote (P) Hesaraghatta Hobli, Bangalore-560 089



	DR NSAM FIRST GRADE COLLEGE Dr. N.S.A.M First Grade College Krishnarajapura Village, Bangalore-89 E mail: nsamfgcyel@gmail.com Website: www.nsam.ac.in
2022-23	BCA Forum 'Technosapiens' Circular

Date:	17 th July,2023	Circular No.	05

Content of the Circular

This is to inform all the 1st Year students of BCA of Dr. N.S.A.M First Grade College that **BCA Forum "Technosapiens**" is conducting Coding and Decoding competition on 19th July, 2023 at 01:30 PM in Shakuntala Devi Computer Lab 2nd floor.

The teachers accompanying are:

- 1. Mr. Naveen Kumar
- 2. Mr. Mohan S.T

Student Coordinators: 1. Keerthana 2. Vignesh

If any queries contact Mr. Mohan S.T, Convener

Convener

	NITTE DR NSAM FIRST GRADE COLLEGE Dr. N.S.A.M First Grade College
	Krishnarajapura Village, Bangalore-89 E mail: hsamfgcyekogmail.com Website: www.nsam.ac.in
2022-23	BCA Forum 'Technosapiens' Registration form

Name of the Event	LOWING	and de	huofiua	9	
Date	19/07/23 Day	Wednesday Timings	t:sspin	Venue	Computer 1ab
Name of the Jury Member	Naveen	Kumor	¢		

Si No	Name of the Participant	Signature
1	монітн в	Meluth S.
2	DRUPAD U	Plad
3	SUJAY U	San . V
4	ABHISHEK NAYAK	Lislis
5	DEVIKA M N	Dwike
6	SHALINI N	Ales -
7	KEERTHANA R	t,
8	BHARATH B	Sheve
9	KARTHIK B	Blang Lothig I Megales A. Megales A.
10	MEGHANA A	Mestales A.
11	SOWMYA S B	Approx

SHASHANK R	\bigcap
HARI KRISHNA M	to White with
DIVYASHREE V	Havenin
PRAJAKTHA C BELLARE	Divyz.
JENIFER A	Pray Ellien -
BHAVAN M	Auce
MACHANI TE IESHWAD	Rhows r
	Tychwal
	Alerdani.
	Inanya
THARUN KUMAR R	Therender
VIGNESH K	Vignesh
SAI CHANDANA K M	1 al un
SREESHA N	Apr
SUPREETHA S	Sď
RICHITHA S	Parto
DHANUJA SANTHOSH	Dis .
NANDAN P	(hat)
ZAHID AHMED	Area
PRIYA S	ADOUNT
HARISH D R	Hovish. D. R
NISHA A	Horish. D. R
HARSHITHA S	the of the
	HARI KRISHNA M DIVYASHREE V PRAJAKTHA C BELLARE JENIFER A BHAVAN M MACHANI TEJESHWAR B A NANDINI ANANYA BIJU THARUN KUMAR R VIGNESH K SAI CHANDANA K M SREESHA N SUPREETHA S RICHITHA S DHANUJA SANTHOSH NANDAN P ZAHID AHMED PRIYA S HARISH D R

35	V SHRIKANT	NU
36	BHARATH KUMAR RAJU Y N	
37	MAHENDRA DAS	-A.F. X 157
38	NAMIT S	-APS (ERS)
39	SHAHID AFRID	North .
40	TEJAS V	THESENT

.

Dr.	NITTE DR NSAM FIRST GRADE COLLEGE N.S.A.M First Grade College	
	Krishnarajapura Village, Bangalore-89 E mail: nsamfgcyel@gmail.com Website: <u>www.nsam.ac.in</u>	
2022-23	BCA Forum 'Technosapiens' Judgement Sheet	

Name of the Event	(0	ding	and	debugg	ging		
Date	19/7/23	Day	Wednesday	Timings	1:45PM	Venue	Computer
Name of the Jury Member	Nav	een	kur	nar.			

S 1	Name of the	Class and		Criteria	Tota
No	Participant	Section			1014
1	Keenthana R	BCA	03		9
2	Bhauan M	BCA	03		
3	Sugar, v	BCot	04		5.0
4		BCA	05		ALS!
5	Shanhank meghana	BCA	03		
	Ų		1		
6	Namith	BCA	04		1
7	Bharoth B	BCA	03		
8		BLA	03		112
9	Karthik Supretha S	BGA	03		H -
10					U

11 N.S	hoi jouth	BCA	03	1
	nuja	BLA	05	
3	0		00	
4				
15				
6	ndon.P	000	<u>_</u>	2
	esha.N	BCA	02	
	hitha	BCU	03	
19	JUDIU	BCA	03	
	anya	13CA	03	0
No No	wish	BCA	02	
	11	1		
n Mal	iith 's ibber	BCA	03)
		BCA	03	
is Sh	ectini	BCA	05	
24 Der	vika	BCA	04	
25				
		1		/
6 Vigt	nush.K	B(A	04	γ
	ndini	BLA	05	
18 Abh	ushek	BCA	02	6
9 Tejo	shwar	BCA	0 \$	
30 D'	ya Avre	BLA	nz	

31	Nishq. A	BCA	03	7
32	Harshitha	BCA	04	
33	Tejas. V	BCA	02	
34	Zahid	BCA	02	
35				
36	0	0.4.4	r¥1	1
	Prajaktha. C	BCA	04	1
36 37 38	Harikrishna_M	BCA	04 03	1
7			04 03 03 04	112

Compiling P1.C:

0

Error P1.C 18: Compound statement missing } Error P1.C 14: Undefined sumbol 'circum' Error Pl.C 9: Declaration syntax error Error P1.C 13: Undefined symbol 'PI' Warning P1.C 18: Code has no effect Error P1.C 18: Statement missing ;

Compiling P2.C:

•Error P2.C 3: Bad file name format in include directive Error P2.C 4: Invalid macro argument separator

Error P2.C 8: Declaration syntax error Error P2.C 12: Function call missing) Error P2.C 13: Undefined symbol 'L2'

Warning P18.C 15: Nonportable pointer conversion Error P18.C 16: Invalid indirection Warning P18.C 19: 'ptr1' is assigned a value that is never used Error P18.C 13: Undefined symbol 'swapping' Error P18.C 14: Undefined symbol 'tep Error P18.C 9: Undefined symbol 'n2' Error P18.C 9: Undefined symbol 'n1' Compiling P1B.C:

	DR NSAM FIRST GRADE COLLEGE Dr. N.S.A.M First Grade College Krishnarajapura Village, Bangalore-89 E mail: nsamfgcyel@gmail.com
2022-23	Website: <u>www.nsam.ac.in</u> BCA Forum 'Technosapiens' Winners List

Name of the Event	CODIN	IG & DECODING				
Date	Day	19-07-2023	Timings	1:30PM 3:30PM	Venue	SHAKUNTALA DEVI COMPUTER LAB 2 ND FLOOR
Members in the	PROF.	NAVEEN KUMA	R			
Jury Panel PROF. MOHAN S T						

Sl No	Name of the Participant	Class and Section	Place secured
	KEERTHANA R	II B.C.A	
	BHAVAN M	II B.C.A	
ТЕАМ 01	SUJAY	II B.C.A	I PRIZE
	MEGHANA	II B.C.A	
	SHASHANK	II B.C.A	
	PRAJAKTHA C BELLARE	II B.C.A	
	HARI KRISHNA	II B.C.A	
ТЕАМ 02	SAI CHANDANA	II B.C.A	II PRIZE
	DRUPAD U	II B.C.A	
	THARUN KUMAR R	II B.C.A	

	VIGNESH	II B.C.A	
TEAM	NANDINI	II B.C.A	
03	ABHISHEK NAIK	II B.C.A	III PRIZE
	TEJESHWAR	II B.C.A	

Name of the Jury Member	Signature of the Jury Member	Date
PROF. NAVEEN KUMAR	de	
TROP. NAVEEN KUMAR	Heune	19/07/23
PROF. MOHAN S T	Mal	19/07/2023
	THOS	1107/2023

MOL

Event Coordinator/ Convener

Dr. N.S.A.M First Grade College

Krishnarajapura Village, Bangalore-89 E mail: nsamfgcye@gmail.com Website: www.nsam.ac.in

2022-23

BCA Forum 'Technosapiens' Report of the Event

Name of the Event	CODING AND DECODING
Date	19 - JULY - 2023
Day	Wednesday
Members in Jury	PROF.NAVEEN KUMAR
in oury	PROF. MOHAN S T
Total No. of Participants	34
Target Class/ Course	BCA
Highlights of the Event	All the Students actively participated in the event. The event is conducted in two rounds, they are Writing a code for the given questions and in the next round it is informed the students to identify the errors in the given code. It helped the Students to improve their programming skills and implement their own code. This event was conducted by forming teams among the students. It helpe the students to get a platform to enhance their knowledge in program also creates interest among them to learn new programming languages.
Suggestions for mprovement (If any)	Judges suggested to conduct the event as inter class competition with including programming languages that comes under University Syllabus.





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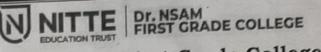






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Event Coordinator/Convener



Dr. N.S.A.M First Grade College

Krishnarajapura Village, Bangalore-89 E mail: nsamfgcyel@gmail.com Website: www.nsam.ac.in

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2022-23

Report on Online Quiz

Topic	Digital Fluency
Date	2nd March 2023
Members Accompanied the students	Mr. Punith Kumar H S
Total No. of Participants	22
Target Class/ Course	1st Sem B. Com A Section
Highlights of the Event	 An online quiz been organized based on the subject Students by using their smart phone played the quiz Total 15 questions are been created using the application. The students enjoyed and learnt the concept through Quiz mode.

Subject Teacher

P ba

PRINCIPAL Dr. N.S.A.M. First Grade College Sy. No. 21, Krishnarajapura Village, Shivakote (P) Hesaraghatta Hobil, Bangalore-560 089

nai		

Ran	Player	Total Score (points)	Correct Answers	Incorrect Answers
	Mythri, Manya	10012	12	:
2	Vandana Gagana	8552	10	
3	YASHUD	8132	10	
4	Nisha payal	8125	9	
5	Koushik , Shara	7716	9	
6	Palani, Rakesh	7560	9	
7	Koushi darshi	6854	8	
8	Raksha,kavya	6638	8	
9	Chandana, vaish	6514	8	
10	Anvi Ammu	6411	7	
11	Usha Bhavya	6114	7	
12	Chandan varun	5994	. 7	
13	Akash,tejas	5985	8	
14	Darshan kv	4481	6	
15	Pavan jeevan	4306	6	
16	Akash	0	0	1
17	Akash yashwanth	0	0	1
18	Chandana. M	0	0	1
19	Koushi darshi	0	0	1
20	Pavan and jeeva	0	0	1
21	Tejas	0	0	1
22	Vaishu chandu	0	. ` 0	1

Page 1





CIPAL Dr. N.S.A.M. first Grade College Sy. No. 21, Krishnarajapura Village, Shivakote (P) Hesaraghatia Hobli, Bangalore-560 089

Mr Punith Kumar HS Iayed with Iayed with 22 players Iayed with Iayed with was with in the with was with in the with was if? (out of 5) Iayed with fig	layed on	2 Mar 2023		
Played with 22 players Overall Performance 37.58% Total correct answers (%) 37.58% Correct answers (%) 62.42% Average rcore (points) 4699.73 pc ints Feedback 22 Number of responses 22 How fun was it? (out of 5) 4.00 out of 5 Did you learn something? 90.00% Yes 10.00% No Do you recommend it? 97.00% Yes 3.00% No		Mr Punith Kumar HS		
Total incorrect answers (%) 62.42% Average rcore (points) 4699.73 pc ints Feedback Number of responses 22 How fun was it? (out of 5) 4.00 out of 5 Did you learn something? 90.00% Yes 10.00% No Do you recommend it? 97.00% Yes 3.00% No How do you feel? 		22 players		
Total correct answers (%) 37.58% Total incorrect answers (%) 62.42% Average rcore (points) 4699.73 pc ints Feedback Number of responses 22 How fun was it? (out of 5) 4.00 out of 5 Did you learn something? 90.00% Yes 10.00% No Do you recommend it? 97.00% Yes 3.00% No How do you feel? 85.00% Positive 10.00% Neutral	Overall Performance			
Average rcore (points) 4699.73 pcints Feedback Feedback Number of responses 22 How fun was it? (out of 5) 4.00 ∪ U of 5 Did you learn something? 90.0 ½ Yes 10.00% No Do you recommend it? 97.0 ½ Yes 3.00% No How do you feel? 85.00% Positive 10.00% Neutral 5.00% Negative 		37.58%		
Feedback 22 Number of responses 22 How fun was it? (out of 5) 4.00 out of 5 Did you learn something? 90.00% Yes 10.00% No Do you recommend it? 97.00% Yes 3.00% No How do you feel?	Total incorrect answers (%)	62.42%		
How fun was it? (out of 5) $4.00 ext{ of 5}$ Did you learn something? $90.0 ext{ Ves}$ $10.00 ext{ No}$ Do you recommend it? $97.0 ext{ Ves}$ $3.00 ext{ No}$ How do you feel?	Average rcore (points)	4699.73 pcints		
Number of responses 22 How fun was it? (out of 5) 4.00 out of 5 Did you learn something? 90.00% Yes 10.00% No Do you recommend it? 97.00% Yes 3.00% No How do you feel? 85.00% Positive 10.00% Neutral 5.00% Negative 				
How fun was it? (out of 5) $4.00 ext{ of 5}$ Did you learn something? $90.0 ext{ Ves}$ $10.00 ext{ No}$ Do you recommend it? $97.0 ext{ Ves}$ $3.00 ext{ No}$ How do you feel?				
Did you learn something? 90.00% Yes 10.00% No Image: Constant of the second sec				
Do you recommend it? 97.00% Yes 3.00% No Image: State of the				
How do you feel? Image: State of the sta				
OS.00% POsitive OS.00% Neutral OS.00% Negative			3.00% No	
Switch tabs/pages to view other result breakdown		85.00% Positive 85.00% Positive 10%	I0.00% Neutral	In the second
	Do you recommend it? How do you feel?	97.00% Yes (8) 85.00% Positive	3.00% No	 5.00% Negative

Page 1

Financial Management

Marks : 60

Time : 2 hour

Ι.

1020

Answer any five of the following

1. What is the profit maximisation

Profit maximisation is also called as a Earning per share maximisation it leads to maximise the business operation for profit maximisation

2. State any two importance of a financial management financial planning proper use of funds

3. What is discounting the inverse of the compounding process is discounting technique the process

of determining the present value of a future cash flow is called discounting 4. What is payback period

Payback period The time required to recover the initial investment in a project 5. What is the cost of debt

cost of debt is after tax cost of long term funds through borrowings

6. What is working capital management policy working capital management formulates policies to manage and handle efficiently for that purpose the management established three policies based on the relationship between sales and working capital

Answer any four of the following Н.

1. What are the factors affecting capital structure cost of capital degree of capital government policies trading on equity degree of control choice of investors capital market condition. Financing cost financing stability of sales flexibility of financial plan size of a company

2. Vikas Receives 3000 after ten years at discounted rate of 10% per annum find out the present value

Present Value = Future Value

and the second

= 3.000

 $(1+0.1)^{10}$

88



32. MNO Company has capital of Rs 1,00,000 by	a Equity sha the following	are of Rs.5,00 g),000 it decid	led to Rise it.
 A) Rs 30,000 5% Preference B) All in Equity share C) All in 20% Debenture D) Rs 40,000 in Equity share EBIT 1,00,000 with tax brack 	are Remainii	ng in 10% Pre	eference Sha	are nt
Particulars	1			IV
EBIT - Interest	1,00,000	1,00,000	1,00,000 20,000	1,00,000
EBT - Tax	1,00,000 30,000	1,00,000 30,000	80,000 24,000	1,00,000 30,000
- Dividend	70,000	70,000	56,000	70,000
	15,000	-	-	1500
No of share	55,000	70,000	56,000	68,500
EPS	5700	6000	5000	5400
	9.6	11.66	11.2	12.68

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Case Study

Section 1

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Calculation of NPV

Calculation of EPS

Calculation of Working Capitai

Which project is preferable at calculation of NPV problem Ans : Identifying NPV The higher NPV is suitable

Which Plan is preferable in EPS calculation Ans :- After calculation Highest EPS is suitable to select plan i non the dath of white A MASN .70 16 109m9, = 3,000 y inioqqe oi basealq .80.01 no blad we 2.5937 etsizzA ze tnen.

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Part and

= 1157

3. Vikas makes deposit of Rs 20,000 in a bank which pays 10% interest compounded annually for 10 years you are required to calculate the future value

Future Value = Present Value (1+i)ⁿ

= 20,000 (1+0.1)¹⁰

= 20,000 (1.1)¹⁰

= 20,000 (2.5937)

=51874

4. A company have the following information in its books of account using the information calculate weighted average cost of capital

Equity share	Rs 10,00,000 5%
	Rs 5,00,000 10%
Debenture	Rs 2,00,000 4%
Retained Earning	Rs 4,00,0006%

Source of fund	Capital	Cost	Weighted cost
Equity share Preference share Debenture Retained Earnings	10,00,000 5,00,000 2,00,000 4,00,000	5% 10% 4% 6%	50,000 50,000 8,000 24,000
and the second se	21,00,000		1,32,000

WACC = Total weighted cost

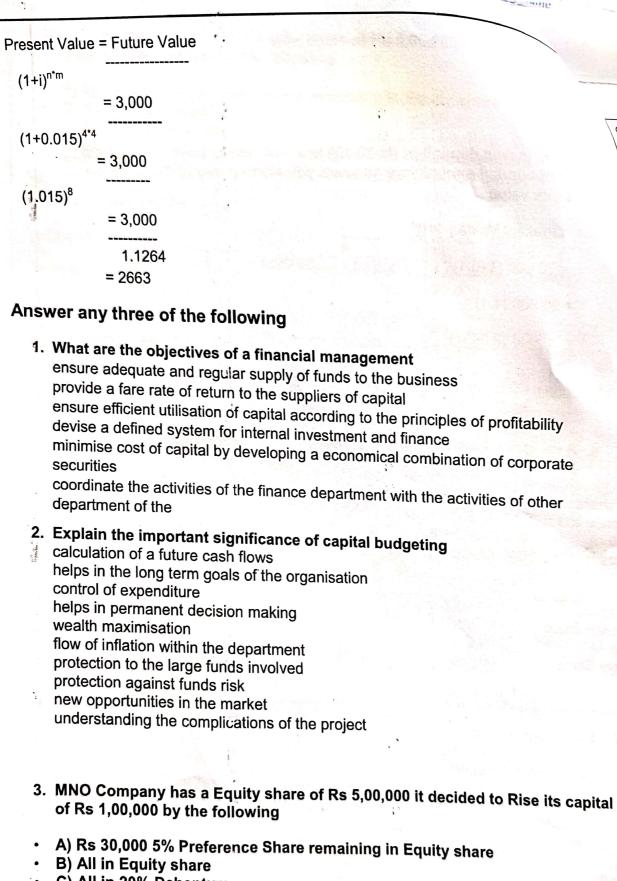
----- * 100 total weight of capital

=6.28

5. Akshay receives Rs 3000 after 4 years at 6% quarterly interest rate find out present value

89





- C) All in 20% Debenture
- D) Rs 40,000 in Equity share Remaining in 10% Preference Share

90

N

머.

No.

. R Shr

Name of the facul

(1,00,000 with tax bracket 30% Calculate EPS and Comment

calculation Of EPS

ticulars	1		111	IV
BIT	1,00,000	1,00,000	1,00,000	1,00,000
- Interest	-	-	20,000	-
EBT - Tax	1,00,000 30,000	1,00,000 30,000	80,000 24,000	1,00,000 30,000
	70,000	70,000	56,000	70,000
- Dividend				
	15,000	-		1500
No of share	55,000	70,000`	56,000	68,500
EPS	5700	6000	5000	5400
	9.6	11.66	11.2	12.68

Compulsory Question (CASE STUDY)

4. A Performa cost sheet of a company provides the following particulars

and and estimated costs material 35% direct labour 25% overhead 20%

Other details are as below

It is maintained that level of activity 2,50,000 units

selling price ₹10 per unit

raw material are to remain in store and average period of one month

Finished goods are required to be in stock for an average period of a month credit allowed to debtors three months credit allowed by suppliers two months

you are required to prepare statement showing working capital requirements

Calculation of Working Capital

Particulars	Rs
Current Assets Raw Material (2,50,000*10*35/100*1/12)	72917
Work In Progress (2,50,000*10*80/100*0.5/12) Finished Goods	83,333
(2,50,000*10*80/100*1/12)	1,66,667
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rease the value of the firm omoting savings What are the source of capital financing equity financing internal or external funds short term internal sources personal funds family and friends alternative banks

3. Naveen deposits 12,000 in a bank which pays 12% interest quarterly for 2 year you are required to calculate the future value

Future Value = Present Value (1+i)^{n*m}

 $= 12,000 (1+0.03)^{2^{*4}}$ $= 12,000 (1.03)^{2*2}$ $= 12,000 (1.03)^{8}$ =12,000(1.2667)=15200

4. Certain requires an initial cash outflow of rupees 25,000 the cash inflows for six years are Rs 5000 8000 10,000 12,000 7000 3000 calculate the payback period

Year	Cash inflow	Cumulative Cash inflow
	5,000	5,000
	8,000	13,000
2	10,000	23,000
3	12,000	35,000
4	7,000	42,000
5	3,000	45,000
6	3,000	

The above calculation shows in first three year 23,000 The balance of 2,000 will be collected (2,000/12,000*12) 2 months

Pay back period 3 year 2 months

5. A company issues 10,000 equity shares of 100 each at a premium of 10% the company has been paying 20% dividend to equity shareholders for the past five years calculate cost of equity capital

NAME.

D= dividend 20 ----*100 FV= Face Value=100 each+ 10 Premium FV 20 ---- * 100 = 18.18 110 93 -

A) all in equity shares of Rs 100 each

B) Rs 5,00,000 in 10% Debenture and remaining in equity share

C) Rs 8,00,000 in 10% Preference share remaining in cash D) Rs 3,00,000 in 5% Debenture and Rs 4,00,000 10% Preference share remaining in equity share

The company expected EBIT of Rs 3,00,000 Tax charges 20% **Calculate EPS and Comment**

Calculation Of EPS

- Aler

Particulars	1	11	111	IV
EBIT	3,00,000	3,00,000	3,00,000	3,00,000
- Interest	-	50,000		15,000
EBT - Tax	3,00,000 60,000	2,50,000 50,000	3,00,000 60,000	2,85,000 57,000
EAT	2,40,000	2,00,000	2,40,000	2 28 000
Dividend	-	-	80,000	2,28,000 40,000
			00,000	40,000
	2,40,000	2,00,000	1,60,000	1,88,000
No of equity share	10000	5000	2000	3000
EPS = Net Profit/No of Equity share	24	40	80	62.66

CIPAL PNI Dr. N.S.A.M. First Grade College Sy. No. 21, Krishnarajapura Village, Shivakote (P) Hesaraghatta Hobli, Bangalore-560 089

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BUSINESS STATISTICS. (Vonu . T.MO) CHAPTER-4. Sem pron Dog MEASURES DE CENTRAL TENDENCY [WORK SHEET] Section - A i) find made if Am = 38 - 2, median = 41.6 millions a: mode = 3 median - 2 mean = 3(41.6) - 2 (38.2) = 124.8 - 76.4 male = 48.4 mabora bit sigs sign of 2) Define the term mode in a differ & dam ch's declarding to A.m. tittle, "made is the value which has the greatest frequency density in its immediate heighborhood. 3. - Jo Z = 38.82 and m=40 find x mode : 3 median - 2 mean 4 38.82 = 3(40)-2(2) 38.82 = 120 - 2× 2x = 120 - 38.82 27 = 81 18 $\overline{X} = \underbrace{\mathcal{B}_{1}, \mathcal{B}}_{\mathcal{B}}$ x = 40.32

find median, if Am=12 and Z=13. 4 mode = 3 median - 2 mean. A 13 - 3 (median) - 2 (12). 12 = 3 median - 24. 3 median = 13-24. 3 median = 11 median <u>=11</u> median = 3.6 s) JA = 12, Z=13 find median. mode = 3 median - 2 mean $13 = 3 \pmod{-2(12)}$. 13 = 3 madian - 24 3 mediam = 13-24 constant to 20 3 3 median = 11 median = 11 . median = 3.6/ JA m=42, Z=40 find x 6 50_ mode = 3 modign - 2 mean 40 = 3(42) - 2 mean 39 - 38 - 200 40 = \$ 126 - 2 mean. 2 mean = 126-40 2 mean = 86 mean = 86 mean = 43

Vertion - B. 1. Celevlate the modian from the following data. Size. 10 12 My 16 18 20. 8 frequency 3 7 12 28 10 9 6 calculation of median. Ans X CA 0 8 3 3 10 7 10 12 12 22 14 28 50 16 ID into 0 60 lof err 18 25-29 69 20 6 8 75 Et=7.5 median is the size of (N+1)th idem. (75#1)^m item. long of me seil moli (76)th item. m item lies in 50 if and its corresponding. value of X is 14 madian 2 19

calculate Arithumatic mean, 2. Marks 0-10 10-20 30-60 60 - 100 Studente 7 13 22 8. 50 calculation of A.m. of min ox C.I 0-10 F 35 5 10-30 13 20 260 30-60 22 45 990 60-100 8 80 640 N:50 Epx = 1925 $\bar{x} = 4x - 1925 = 38.5$ - seires primallof ant marg mailen staluelas [c C.I 0.4 5.9 10-14 15-19 20-24 25-29 20-34 25-39 35 26 18 15 8. 6 13 5 23 Any calculation of median. Barrow median is the size of ny the item ¢ C.I 5 0-4 5 143 = 71.5 th item 18 5-9 13 71.5th item lies in 76 and its lanespoing 41 23 10-14 median class is 15-19 76 15-19 35 median = L+ (DL - Cf) xi 20-24 26 108 = 14.5+ (71.5-41) ×5 25-29 18 120 135 30 -34 15 $=14.5 + (30.5 \times 5).$ 35 -39 143. 8 N=143

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P marks fleggence. motion Kalendate R' -1000 + 100 - 1 19 + 00013 Nows 2 1000 + N + 1000 × (50 -40 50 median 11 11 5 11 11 P 1000 1000 + 1000 (1 1000 -10×200 1000 6 1000 + 109.09 40 40 11 15 × from the 20-14-17 1109.09 1200 40 - 29. 118 1200 000 5 11 × 200 20 20 \succ Loo Jollaming data 20 12 0

3 8 30 X Javos Hram 10 as the do 40 S NC calculate 10 freethunty mede 49.5th Value eg volue of x is 40 male in 40. 2 80 20 ā 40 0 16 70 highest gesplance is up, the lanceponding. The corresponding 'x' value of the highest frequence. illerin median and 28 f 98 16 or is no median = 40. n8 88 (ie) 7 Strayloo 600 240 1 600 160 500. fa SWY 16 20 9280 mode 60 40 median ~ (N+1) E Mean of the following data. ×1 11 40 40 and its converpending. the per = uq .5 th idem 2fz = 5100 N 98 07 00 00 96 48+1) m 112 110 -Fr c istern ilem idem. = 31. 63 Rb 1. 80 123.

04 - 0R 10-20 10-20 0-10 J E 60 70 male median = 30 + - 60 50 00 y 30 () 30 () t + 80 07 30+2 r 2 +0 36 24 2 20 2(35)-25-45 25 Jours 10X1D 50-52-42 16 125 0 5 3 00 00100 is male. 50 1 to - t -25 XID C.p 94 40 96 16 30-40 2 125 112 120 XI. XIO XIO, 35 25 St us 5 53 65 5 × ile 62.5 th item vies in 76.7 and budgener 30+ M=24 median 11 30-40 m's the - 30 + 30+ 11 22.5 1 - 36.28 in melian 30+ 36 30 2 62.5th +6.25 62. 22.5×10 125 XCP Size of 2 th 210 X 10 modian lassing 30 5-40 226 36 36 idem x r XIO. idem 60)

Z 36 - 39 15- 22 02 20-23 my 1 No. of lemp tr- 42 16-19 12-00-11 t-h Ti mean, median and male 5 T 10g. 30 5 ã 5 10 2 0 6 17.5 28.5 9.5 IP.S 11-8 ×32 24.5 33.5 29.5 Sis 10 12-15 2095.5 95 tex SNS 322.5 243 50 306 295 20 16-19 5 6 24 00 64 2 24 6 0 1 mag from the following day 20-23 15 median 5.51 X medon of alig and fi w 24-27 8:30 8 2 dem lies in the of and 191-91 m Par 5.19.5 unperpending modian 28-31-32-35 36-34 24.5 42 54.5-24 1095.55 19 .22 pc 1 (109) 00 riz ST Jem 6 t illem

(32) The Highest frequency is so and its corresponding model its 200 16-19 = 15,5 -19.5 $= 2 = L + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) \times d.$ 15.5+ (30-18 (2(20)-18-15)×4 15.5 + (12×4) 60+33) = 5-5+ [48] 15-5+1.79 = 17.27/ calculation made and median from the following data: S × 0-10 10-20/ 20-30 30-50 50770 70-100 7 5 10 17 40 62 60. x q mx fr cf 5 5 25 5 0-10 10-20 10 15 150 15 20-30 17 25 425 32 72 30-50 40 80 3200 50-20 62 125 7440 134 10200. 194. 10 -100 170 60. motion. m is the size of (1) the idem. Sig of (194) m idem. at the item pribrodeened the broa p. 481 . mi deil meti 4510 = of es is sub barren

 $m = L + \left(\frac{n}{2} - (f) \times i\right)$ $50 + \left(\frac{97 - 72}{62}\right) \times 2$. $50 + (25) \times 2$ 50 + (25×2) -50 +0.8064 250.8064 made 2= L+ (fi fo 2= L+ (fi fo) XI $= 50 + \frac{134 - 72}{2(134) - 72 - 194} \times 2.$ $-50 + (\frac{62}{268 - 72 - 194}) \times 2$ 50+ (62 ×L 50 + 62x2 50 + (124) 50762 =112 modian and mode from the following data. Calulate moon erib Contrad 40 25 45 15 20 35 01 20 8 5 requerty 50 25 7 10 25 40 Dr. N.S.A.M. First Glade College Sy. No. 21, Krishnaralapura Village, Shivakote (P) Hesaraghatta Hobli, Bangalore-560 089

x 4 ·fx Cf 10 10 100 10 15 25 215 35 20 40 15 800 50 25 1250 125 25 750 150 30 595 167 35 17 320 175 YO 8 45. 5 225 180. Sx = 180. EP2 4415. mean - $\bar{x} = \xi f_x = \frac{4415}{180} = 24.5273$ median m-is the Size. of [N+1] the idem. $\left(\frac{180+1}{2}\right)^m$ item. $\left(\frac{181}{2}\right)^{\text{th}}$ where. 90.5th item. 9.5th jern lies in 125. Ct and its lonesponding value &x. us 25 modian = 25. mode mode - The Corresponding & value of nighest frequency at the highed frequency is 50 the corresponding value of x is 25 mode = 25/