

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) -201306

POST GRADUATE DIPLOMA IN MANAGEMENT (2022-24) END TERM EXAMINATION (TERM -II)

Subject Name:	Advanced Excel & Data Visualization	Time: 02.30 hrs.
Sub. Code:	PG23	Max Marks: 40

Note:

- 1. All questions are compulsory. Section A carries 5 marks: 5 questions of 1 marks each, Section B carries 21 marks having 3 questions (with internal choice question in each) of 7 marks each and Section C carries 14 marks one Case Study having 2 questions of 7 marks each.
- 2. The first page (of excel worksheet) should carry: Admission Number, Date of exam, Program, Section and course on top.
- 3. Keep the name of the sheet as Question Number Student are supposed to save the file using his/her full name and Admission No/Roll Number for example (ramkishan_PGDM22123)
- 4. Students are supposed to submit the soft copies using a PD. Each student to carry his/ her own Pen Drive (PD). Sharing of PD for submitting final ANSWER / SOLUTION is not allowed.

Kindly write the all the course outcomes as per your TLEP in the box given below:

CO1- Use advanced Excel features to build analytical models to solve varied business problems

CO2- Apply advanced Excel features to empower business

CO3- Evaluate best, worst and most likely case scenarios for varied business problems

CO4- Develop full range dashboards and analyze data in multi-dimensional formats

<u>SECTION – A</u>		
Attempt all questions. All questions are compulsory. $1 \times 5 =$	5 Marks	5
Questions	CO	Bloom's
		Level
Q. 1: (A). Find the total cost by multiplying Column E and F. Calculate Total	CO1	L3
Cost in cell G45 using SUMPRODUCT function.		
Q. 1: (B). Highlight cells of the "Central" region with blue color by using		
conditional formatting.		
Q. 1: (C). Find mean, median and mode single and ModeMult of Units (mention		
all modes in cells starting from K17).		
Q. 1: (D). Apply Data bars conditional Formatting in Total Cost Column.		
Q. 1: (E). Highlight cells with green color in which the number of units are		
greater than 80, with yellow color if number of units are 20 to 80 ad with red		
color if number of units are less than 20.		
<u>SECTION – B</u>		

All questions are compulsory (Each question have an internal choice. Attempt any one (either A or B) from the internal choice) $7 \times 3 = 21$ Marks

Questions	CO	Bloom's
		Level
Q. 2: (A). Create a Pivot Table and Pivot Chart from the given data. The	CO2	L5
resultant pivot table should summarize InsuredValue by BusinessType. Drop		
Construction into columns and Region into filters. Add a timeline and two slicers		
on State and Location.		
Or		

Q. 2: (B).							
a. Apply	VLOOKUP fur	nction to f	etch Regi	ion and Ins	sured Value from the		
PolicyData sheet (Q2. (A) sheet). (4 marks) b Apply data validation from E2 to E7 to input the name. Text length							
b. Apply data validation from E2 to E7 to input the name. Text length							
should	should not be more than 15 characters. (1 mark)						
c. Apply data validation from F2 to F7 to input mobile number (10 digits are							
permi	permitted). (1 mark)						
d. Apply	d. Apply data validation from G2 to G7 to input State. The list of states is						
given in column J. (1 mark)							
O 2. (A) A territed become situation. We have the other finance for the final							
Q. 3: (A). A typical business situation: You have the sales figures for the first three quarters and you want to know how much sales you have to make in the							
three quarters and you want to know how much sales you have to make in the last quarter to achieve the target pet profit for the year, say \$100,000							
last quarter to	actile ve tile targ		Dr	year, say, c	¢100,000.		
O. 3: (B). It	the given tabl	e. Profit	value is o	dependent	on 3 variables- sale	CO3	L4
quantity, pric	e per unit. and va	ariable cos	t per unit	. Check the	final values of profit	000	2.
when we cha	ange the values	of indep	endent va	ariables as	per the given three		
scenarios. Na	me the range E	32:B6 as	per the c	olumn val	ues on the left side.		
Create the li	sted scenarios b	y using s	scenario 1	manager a	nd find the scenario		
summary.				U			
_							
Q. 4: (A).	Valencia Produ	cts Ltd.	makes au	utomobile	radar detectors and		
assembles tw	o models: Lase	rStop and	l SpeedB	uster. The	firm can sell all it		
produces. Bot	th models use the	e same ele	ectronic co	omponents.	. Two of these can be		
obtained only	from a single s	upplier. F	or the nex	xt month, t	the supply of these is		
limited to 4,0	00 of component	t A and 3,	500 of co	mponent B	. The number of each		
component required for each product and the profit per unit are given in the							
component re	equired for each	product	and the p	profit per u	unit are given in the		
component re table:	equired for each	product	and the p	profit per u	unit are given in the		
component re table:	equired for each	product	and the p	profit per u	unit are given in the		
component re table:	equired for each	product	and the p	profit per u	unit are given in the		
component re table:	s Require/Unit	A R	and the r	B	unit are given in the Profit/UnitA		
component ratable:	s Require/Unit	A 8 2	and the p	B 6	Profit/UnitA \$24		
Component re table: Component LaseSto SpeedBus	s Required for each	A A 2 should 1	and the p	B 6 10 by Valence	Profit/UnitA \$24 \$40 \$24 \$40		
component ra table: Component LaseSto SpeedBus How many of maximize gro	s Required for each s Require/Unit p 1 of each product	A A 2 should 1	and the p	B 6 10 by Valend	Profit/UnitA \$24 \$40 cia Products Ltd. to		
component re table: Component LaseSto SpeedBus How many o maximize gro	s Required for each s Require/Unit p 1 ster 1 of each product ss profit margin	A A 2 should 1	and the p	B 6 10 by Valend	Profit/UnitA \$24 \$40 cia Products Ltd. to		
component re table: Component LaseSto SpeedBus How many of maximize gro	s Require/Unit s Require/Unit p 1 of each product ss profit margin	A A 2 should 1 ?	and the p	B 6 10 by Valend	Profit/UnitA \$24 \$40 cia Products Ltd. to		
Component ratable: Component LaseSto SpeedBus How many of maximize grow	s Require/Unit s Require/Unit p 1 ster 1 of each product of ss profit margin? A company has	A A 8 2 should 1 ? received a	and the p be made Dr a contract	B 6 10 by Valence to supply	Profit/UnitA \$24 \$40 cia Products Ltd. to gravel to three new		
component ratable:ComponentLaseStoSpeedBusHow many of maximize growQ. 4: (B). A construction p	s Require/Unit	A A A 2 should 1 ? received a town A,	and the provide the provided th	B 6 10 by Valence to supply The constr	Profit/UnitA \$24 \$40 cia Products Ltd. to gravel to three new ruction engineers have		
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component ratable: Component LaseSto SpeedBus How many of maximize grow Q. 4: (B). construction p estimated that project are: Project Location A B C The company b supplied by eac P amount (True	s Required for each s Require/Unit p 1 p 1 of each product weekly Requirement (Truckloads) 72 102 41 has 3 gravel pits le rojects can be sup ch pit is as follows Plant t available ckloads)	A A 8 2 should 1 ? received a town A, nts of grav content in to pplied by t :: X 76	and the provide the provided the p	B 6 10 by Valence to supply The construction yill be needed , and Z. The The amount Z 77	Profit/UnitA \$24 \$40 cia Products Ltd. to gravel to three new ruction engineers have ed at these construction e gravel required by the t of gravel that can be	CO3	L4
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	Pro	ject Locati	on			
Pit	Α	B	С			
X	4	8	8			
Y	16	24	16			
Z	8	16	24			
Schedule the total tra	he shipmen ansportatior	t from each 1 cost.	pit to eac	h project in such a manner that it minimizes		
				<u>SECTION – C</u>	L	
Read the o	Read the case and answer the questions $7 \times 02 = 14$ Marks					
			Oue	estions	CO	Bloom's
			C			Level
Q. 5:					CO4	L6
Intellese	Ltd. is an	n UK bas	sed IT c	company. It runs two types of stores-		
CompuTech and MicroWorld in a number of towns in UK. The company chairperson wants to see the performance of the company in terms of sales. The						
data is giv	ven in the N	MS Excel s	sheet.	the of the company in terms of sales. The		
Q. 5: (A).	···· ··· ···· ·					
a. Cr ch	eate a pive art) from t	ot table di his table.	splaying	"Sales by Store". Create pivot chart (pie		
b. Cr ba	eate a piv r chart) fro	ot table d om this tab	isplaying le.	"Sales by Manager". Create pivot chart		
c. Cr les	c. Create a pivot table displaying "Sales by Category". Drop store into legend. Create pivot chart (bar chart) from this table.					
d. Cr ch	d. Create a pivot table displaying "Sales by Month". Create pivot chart (line chart) from this table.					
Q. 5: (B) above cha text boxes the compa	• Create a arts in the orthogonal sector of th	a dashboar dashboard g total sal er left corn	d "Sales Add two es and h er of the	Analysis Jan-June 2022". Copy all the o slicers on Store and Category. Add two ighest selling category. Paste the logo of dashboard.		

Kindly fill the total marks allocated to each COs in the table below:

COs	Marks Allocated
CO1	5 Marks
CO2	7 Marks
CO3	14 Marks
CO4	14 Marks

Blooms Taxonomy Levels given below for your ready reference:

- L1= Remembering
- L2= Understanding
- L3= Apply
- L4= Analyze
- L5= Evaluate
- L6= Create