EVERWIN MATRIC. HR. SEC. SCHOOL

15.10.19 T.T Computer Application Time: 45 Mins

STD: XII (I,J) Marks: 30

I. Answer the following: 5x2=10
1. What are the goals of Open NMS?
2. What are the types of Open source developers?
3. Explain NRCFOSS.
4. What are trace files?
5. What is meant by Network Simulator?

II. Answer the following: 5x3=15
6. What are the types of Open Source NMS?
7. What are the main functional areas of Open NMS?
8. Write a note on Open Source Hardware.
9. List out the popular Open Source Software.
10. Explain Free Software.

III. Answer any one in detail: 1x5=5
11. Differentiate Proprietory and open source software.
12. Explain various Open Source license.

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15.10.19 T.T Business Maths Time: 45 Mins

STD: XII (I,J) Marks: 30

I. Choose the correct answer: 5x1=5
1. In a parametric distribution the mean is equal to variance is
   a) Binomial b) Normal c) Poisson d) All the above
2. Normal distribution was invented by _____.
   a) Laplace b) Demoivre c) Gauss d)All the above
3. If X~N(9,81) the standard normal variate Z will be _____.
   a) $Z=\frac{X-81}{9}$ b) $Z=\frac{X-9}{81}$ c) $Z=\frac{X-9}{9}$ d) $Z=\frac{9-X}{9}$
4. If for a binomial distribution b(n, p) mean=4 and variance=$\frac{4}{3}$, the probability, P(X≥5) is equal to _____.
   a) $\left(\frac{2}{3}\right)^6$ b) $\left(\frac{2}{3}\right)^5 \left(\frac{1}{3}\right)$ c) $\left(\frac{1}{3}\right)^6$ d) 4 $\left(\frac{2}{3}\right)^6$
5. In Binomial distribution, variance is _____ than Mean.
   a) more b) less c) equal d) zero

II. Answer any 5 of the following: 5x3=15
6. Verify the following statement:
   The Mean of Binomial distribution is 12 and S.D is 4.
7. Write the condition used under the Binomial distribution.

8. In a family of 3 children, what is the probability that there will be exactly 2 girls?
9. An experiment succeeds twice as often as it fails, what is the probability that in next five trials there will be (i) three success (ii) atleast three success.
10. If the probability of success is 0.09. How many trials are needed to have a probability of atleast one success as $\frac{1}{3}$ or more?
11. A pair of dice is thrown 4 times. If getting a doublet is considered a success, find the probability of 2 success.

III. Answer any 2 of the following: 2x5=10
12. Derive Mean and Variance of Binomial Distribution.
13. The sum and product of the Mean and variance of binomial distribution are 24 and 128. Find the distribution.
14. Forty percent of business travellers carry a laptop. In a sample of 15 business travellers
    (i) What is the probability that 3 will have a laptop?
    (ii) What is the probability that 12 of the travellers will not have a laptop?
    (iii) What is the probability that atleast three of the travellers gave a laptop?

I. Answer the following: 5x3=15

1. Prince, Dev and Sasirekha are partners in a firm sharing profits and losses in the ratio of 2:4:1. Their balance sheet as on 31st March 2019 is as follows:

Liabilities	₹	₹	Assets	₹
Capital accounts			Buildings	40,000
Prince	30,000		Plants	50,000
Dev	50,000		Furniture	10,000
Sasirekha	20,000		Stock	15,000
		1,00,000	Debtors	20,000
Profit and loss			Cash at bank	15,000
appropriation A/c		10,000		
General reserve		15,000		
Workmen compensation				
Fund		17,000		
Sundry creditors		8,000		
		1,50,000		1,50,000

2. Prabu, Ragu and Siva are partners sharing profits and losses in the ratio of 3:2:1. Prabu retires from partnership on1st April 2017. The following adjustments are to be made:

i) Increase the value of building by ₹12,000

ii) Reduce the value of furniture by ₹8,500

iii) A provision would also be made for outstanding salary for ₹6,500

Give journal entries only.

3. Kiran, Vinoth and Vimal are partners sharing profits in the ratio of 5:3:2. Kiran retires and the new profit sharing ratio between Vinoth and Vimalis 2:1. Calculate the gaining ratio.

4. Arya, Benin and Charles are partners sharing profits and losses in the ratio of 3:3:2. Charles retires and his share is taken up by Arya. Calculate the new profit sharing ratio and gaining ratio of Arya and Benin.

5. Suresh, Senthamarai and Raj were partners in a firm sharing profits and losses in the ration of 3:2:1. Suresh retired from partnership. The goodwill of the firm on the date of retirement was valued at ₹36,000. Pass necessary journal entries for goodwill on the assumption that the fluctuating capital system is followed.

II. Answer the following: 3x5=15

6. Naresh, Mani and Muthu are partners in a firm sharing profits and losses in the ratio of 2:2:1. On 31st March 2019, Muthu retires from the firm. On the date of Muthu's retirements, goodwill appeared in the books of the firm at ₹40,000. By assuming fluctuating capital method, pass the necessary journal entry if the partners decide to

a) write off the entire amount of Existing goodwill.

b) write off half the amount of Existing goodwill.

7. Justina, Navi and Rithika are partners sharing profits and losses equally on 31/3/2019. Rithika retired from the partnership firm. Profits of the preceding years is as follows:

2016:₹5,000   2017:₹10,000   and   2018:₹30,000

Find out the share of profits of Rithika for the year 2019 till the date of retirement if

a) profits is to be distributed on the basis of the previous year's profit

b) profits is to be distributed on the basis of the average profits of the past 3 years

Also pass necessary journal entries by assuming that partner's capitals are fluctuating.

8. Mani, Rama and Devan are partners in a firm sharing profits and losses in the ratio of 4:3:3. Their balance sheet as on 31st March 2019 is as follows:

Liabilities	₹	₹	Assets	₹
Capital accounts			Building	80,000
Mani	50,000		Stock	20,000
Rama	50,000		Furniture	70,000
Devan	50,000		Debtors	20,000
		1,50,000	Cash in hand	10,000
Sundry creditors		20,000		
Profits & Loss A/c		30,000		
		2,00,000		2,00,000

Mani retired from the partnership firm on 31/03/2019, subject to the following adjustments:

i) Stock to be depreciated by₹5,000

ii) Provision for doubtful debts to be created for ₹1,000

iii) Buildings to be appreciated by ₹16,000

iv) The final amount due to Mani is not paid immediately.

Prepare revaluation account and capital account of partners after retirement.