

K.K COLLEGE OF ENGINEERING & MANAGEMENT (KKCEM) NAIRO, GOVINDPUR, DHANBAD, JHARKHAND - 828109

Scholarship Examination (2017-18 Session) ::: Model Test Paper ExaminationDate :April 15 / May 13, 2017

<u>Time</u> : 1½ Hr

F. Marks : 100

Instructions :

- I. TheQuestion Paper has three Sections. The Maximum Marks is 100.
- II. Each Question has four choices for right answer. Tick [$\sqrt{}$] the right choice.
- III. Section A contains Questions for Testing Aptitude, GK & Grammar. Weightage is 40 Marks.
- IV. Section B contains Questionsfor Testing knowledge of Physics & Chemistry. Weightage is 40 Marks.
- V. Section C contains Questions for Testing knowledge of Mathematics. Weightage is 20 Marks.
- VI. Use of **Calculator** is strictly prohibited.

Section – A ::: APTITUDE [20 Questions x 2 Marks Each :: 40 Marks]

[1]	Complete the series: 4, 6, 9, 13						
	(A) 18	(B) 17	(C) 16	(D) 20			
[20]	Complete the series: BD, FH, JL, NP,						
	(A) SV	(B) RT	(C) SU	(D) TV			

Section – B ::: PHYSICS & CHEMISTRY [20 Questions x 2 Marks Each :: 40 Marks]

[21] A filament bulb (500 W, 100 V) is to be used in a 230 V main supply. When a resistance *R* is connected in series, it works perfectly and the bulb consumes 500 W. The value of *R* is

(A) 230 Ω (B) 46 Ω (C) 26 Ω (D) 13 Ω

[30]	A circuit contains an ammeter, a battery of 30 V and a resistance 40.8 ohm all connected in series. If the ammeter has a coil of resistance 480 ohm and a shunt of 20 ohm, the reading in the ammeter will be					
	(A) 1 A	(B) 0.48 A	(C) 0.5 A	(D) 0.02 A		
[31]	Which of the following is an anionic detergent ? (A) Sodium stearate (C) Cetyltrimethyl ammonium bromide		nic detergent ? omide	(B) Sodium lauryl sulphate (D) Glyceryloleate		
[40]	The non-metal that does not exhibit positive oxidation state is :					
	(A) Oxygen	(B) lodine	(C) Chlorine	(D) Fluorine		

Section – C ::: MATHEMATICS [10 Questions x 2 Marks Each :: 20 Marks]

[41]	If the mean deviation of the numbers 1, 1+d,, 1+100d from their mean is 255, then a value of d is :					
	(A) 10.1	(B) 20.2	(C) 10	(D) 5.05		
[50]	A man is walk path, he obse A in the same Then the time (A) 6	king towards a verves that the ang e direction, at a p taken (in minuted (B) 10	ertical pillar in a s le of elevation of oint B, he obser s) by him, from B (C) 20	raight path, at a uniform speed. At a c the top of the pillar is 308. After walking es that the angle of elevation of the to to reach the pillar, is : (D) 5	ertain point A on the g for 10 minutes from p of the pillar is 608.	

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