10th and BSC-IT,	w.brpaper.com for downloading previous years question papers of d 12th (PSEB and CBSE), B-Tech, Diploma, BBA, BCA, MBA, MCA, M-Tech, PGDCA, B-Com, MSC-IT.		
APPLIED CHEMISTRY-II 2 nd Exam/Common/2254/May'17			
Duration: 3 Hrs. M. Marks:			
	SECTION – A		
Q1 (a) i. ii. iv. v. vi. vii. viii. ix. x.	A good fuel should possess ignition temperature. The unit of viscosity is Lime acts as a in silica bricks. Enamel is pigmented		
	Il in the blanks. 5x1=5 Combustion of a fuel is an exothermic process.		
i. ii.	Mineral oils are good in oiliness.		
iii.	Nylon -66 is obtained by addition polymerization reaction.		
iv.	Corrosion involves oxidation process.		
٧.	A forestation causes air pollution.		
	SECTION – B		
Q2. Att	tempt any ten questions. 10x3=30		
a.	Explain Froth flotation process for the concentration of sulphide ores.		
b.	What is the difference between cast iron, wrought iron and steel?		
C.	What is the cause of corrosion?		
d.	Distinguish between octane number and cetane number.		
e.	Write a short note on natural gas.		
f.	Define viscosity. What is the effect of temperature on viscosity?		
g.	Name the various constituents of paint. Explain the functions of a drying oil.		
h.	What is a glass? What is the composition of glass?		
i.	State and explain Pilling- Bedworth rule.		

Differentiate between thermoplastics and thermosetting plastics.

How is Nylon-66 synthesized from its monomers? Write its uses.

What are primary and secondary pollutants? Give two examples of each.

What are the characteristics of a good refractory material?

j.

k.

Ι.

m.

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SECTION-C

Attempt any 3 questions.			
Q3.		Name the important ores of copper. Describe the extraction of copper fromain ore.	m its 10
Q4	(a) (b) (c)	What are the theories of corrosion? Describe briefly the acid theory. What are the advantages of gaseous fuels over the solid fuels? What are anti-knock compounds? Give two examples.	5 3 2
Q5	(a) (b) (c)	What are super conductors? What are their types? What is a varnish? What are the characteristics of a good varnish? Explain the mechanism of thin film lubrication.	4 4 2
Q6	(a) (b)	Give the preparation and uses of following polymers: (i) PVC (ii) Teflon (iii) Buna-S What is air pollution? What are its main sources? How can we prevent it?	6 4
Q7		Calculate the gross calorific value of coal (using Dulong's formula) having following percentage composition. C=80%, $H=7%$, $O=3%$, $S=3.5%$, $N=2.1%$, and $Ash=4.4%$	3
	(b)		le in
	(c)	each case. Explain green house effect and global warming.	3