

QUESTION 1: FACTORISE

- 1.1 Factorise the following expression completely:

$$x\left(\frac{2x^2}{x} - \frac{3xy}{x}\right) + y\left(\frac{2xy}{y} - \frac{3y^2}{y}\right) \quad (3)$$

- 1.2 When $f(x) = 3ax^3 + 2x^2 - 7x + 3$ is divided by $2x + 1$ the remainder is $-\frac{a}{2}$.

Determine the value or values of a . (5)

- 1.3 Simplify the following expression:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2} \quad (6)$$

[14]

QUESTION 2: FACTORISE – AUG 18

- 2.1 Simplify the following algebraic fraction:

$$\frac{x^2 - 4}{3x^2 + 4x - 4} \div \frac{x^2 - 4x + 4}{2x^2 - 11x + 14} \times \frac{3x - 2}{6x - 21} \quad (5)$$

- 2.2 When $f(x)$ is divided by $2x - 3$ the remainder is 4.

Determine the value of p if $f(x) = 2x^3 - px^2 + 6x - 5$. (4)

- 2.3 Factorise the following expression completely:
 $ax + 9by - 3ay - 3bx$

(3)

- 2.4 Simplify the following expression:

$$\frac{x + 9x^{\frac{1}{2}}}{x + 7x^{\frac{1}{2}} - 18} \div \left(1 - \frac{2}{x^{\frac{1}{2}}}\right)^{-1} \quad (5)$$

[17]

QUESTION 3: FACTORISE

- 3.1 Factorise the following as far as possible in prime factors:

3.1.1 $5x^4 - 5y^4$

3.1.2 $15x^2y^2 - 25xy^3 - 10y^4$

(2 × 3) (6)

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Aeronautics and Space Administration, **Management** ,1968 Use of Services for Family Planning and Infertility.
United States, 1982 Gerry E. Hendershot,Marjorie C. Horn,William D. Mosher,1988 The 1982 statistics on the use of family
planning and infertility services presented in this report are preliminary results from Cycle III of the National Survey of
Family Growth NSFG conducted by the National Center for Health Statistics Data were collected through personal interviews
with a multistage area probability sample of 7969 women aged 15 44 A detailed series of questions was asked to obtain
relatively complete estimates of the extent and type of family planning services received Statistics on family planning
services are limited to women who were able to conceive 3 years before the interview date Overall 79% of currently married
nonsterile women reported using some type of family planning service during the previous 3 years There were no statistically
significant differences between white 79% black 75% or Hispanic 77% wives or between the 2 income groups The 1982
survey questions were more comprehensive than those of earlier cycles of the survey The annual rate of visits for family
planning services in 1982 was 1077 visits 1000 women Teenagers had the highest annual visit rate 1581 1000 of any age
group for all sources of family planning services combined Visit rates declined sharply with age from 1447 at ages 15 24 to
479 at ages 35 44 Similar declines with age also were found in the visit rates for white and black women separately

Nevertheless the annual visit rate for black women 1334 1000 was significantly higher than that for white women 1033 The highest overall visit rate was for black women 15 19 years of age 1867 1000 Nearly 2 3 of all family planning visits were to private medical sources Teenagers of all races had higher family planning service visit rates to clinics than to private medical sources as did black women age 15 24 White women age 20 and older had higher visit rates to private medical services than to clinics Never married women had higher visit rates to clinics than currently or formerly married women Data were also collected in 1982 on use of medical services for infertility by women who had difficulty in conceiving or carrying a pregnancy to term About 1 million ever married women had 1 or more infertility visits in the 12 months before the interview During the 3 years before interview about 1 9 million women had infertility visits For all ever married women as well as for white and black women separately infertility services were more likely to be secured from private medical sources than from clinics The survey design reliability of the estimates and the terms used are explained in the technical notes *Notices of the American Mathematical Society* American Mathematical Society, 1977 *Government Reports Announcements & Index*, 1988

China World Bank, 1993 The Republic of Korea's industrial policy has directed that nation's economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy's structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts

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